

# 1 Curriculum Vitae with Scientific Development of Gerhard-Wilhelm Weber

## 1.1 Personal Data

**Name, first name:** Weber, Prof. Dr. rer. nat. habil. Gerhard-Wilhelm

**Address:** Institute of Applied Mathematics, Middle East Technical University

**Affiliations:** Department of Financial Mathematics, Department of Scientific Computing, Assistant to the Director

**Further Affiliations:** Faculty of Economics, Business and Law, University of Siegen, Germany (Permanent Guest Professor);  
School of Science, Information Technology and Engineering, Federation University, Ballarat, Australia (Adjunct Professor),  
Center for Research & Development in Mathematics and Applications (CIDMA), Department of Mathematics, University of Aveiro, Portugal (Collaborator);  
University of Technology Malaysia (Universiti Teknologi Malaysia, UTM), Faculty of Science, Skudai, Malaysia (Researcher);  
University of North Sumatra (University of Sumatera Utara, USU), Medan, Indonesia (Representative - Advisor);  
Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey (Member);  
Bioinformatics Program at Informatics Institute of METU (Affiliated Faculty);  
Department of Geodetic and Geographic Information Technologies (GGIT), METU, Ankara, Turkey (Member);  
Department of Statistics, METU, Ankara, Turkey (Affiliated Faculty);  
Graduate School on Neurosciences and Neurotechnology, METU and Hacettepe University, Ankara, Turkey (Affiliated Faculty, Member of Administrative Committee);  
KTO Karatay University, Lean & Green SCM Lab, Konya, Turkey, Co-director.

**Zip code / town:** 06800 Ankara, Turkey

**E-Mail:** gweber@metu.edu.tr

**Birthday / place:** October 20, 1960, in Bad Berleburg (Westphalia, Germany)

**Family state:** unmarried

**Nationality:** German

## 1.2 Educational Data

### School education:

**1966-1970** Visit of Elementary School Schüller-Wemlighausen

**1970-1976** Visit of *Junior High School* (Realschule) Bad Berleburg  
Degree: Mittlere Reife (junior high school diploma)

**1976-1979** Visit of Johannes-Althusius Secondary School Bad Berleburg  
Degree: Abitur (final examination)

### Studies:

**1979-1980** Studies of economics and business administration at University of Siegen, Germany

**1980-1986** Studies of mathematics and (second subject) economics and business administration at RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen, Germany)  
Degree: diploma (mathematics)  
Title of diploma thesis: *Optimale Kontrolle gewöhnlicher Differentialgleichungen mit periodischen Randwertproblemen – Methoden der konvexen Analysis und des Abbildungsgrades*  
Supervisor: Prof. Dr. G. Hetzer

### Promotion:

**1988-1992** Further studies and research in various mathematical fields, in particular, analysis, topology, nonlinear optimization and operations research at Chair C for Mathematics of RWTH Aachen  
Degree: promotion (mathematics), Dr. rer. nat.  
Title of doctoral thesis: *Charakterisierung struktureller Stabilität in der nichtlinearen Optimierung*  
Referees: Prof. Dr. H. Th. Jongen, Prof. Dr. J. Reinermann (both from RWTH Aachen), Prof. Dr. J. Guddat (Humboldt University Berlin)

### Habilitation:

**1993-1999** Extension of research into the theories of optimal control and discrete mathematics at Department of Mathematics at Darmstadt University of Technology (TH Darmstadt; since 1997: TU Darmstadt), Germany  
Title of habilitation thesis:  
*Generalized Semi-Infinite Optimization and Related Topics*  
Referees: Prof. Dr. W. Krabs, Prof. Dr. P. Spellucci (both from

TU Darmstadt), Prof. Dr. D. Pallaschke (University of Karlsruhe) and Prof. Dr. F. Twilt (University Twente in Enschede, the Netherlands)

Habilitation lecture<sup>1</sup> at December 10, 1999:

*Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem*

Degrees: habilitation (mathematics), Dr. rer. nat. habil.  
(December 10, 1999),

Privatdozent (April 14, 2000)

Inaugural lecture at April 28, 2000:

*Moderne algebraische und numerische Methoden in der statistischen Versuchsplanung*

### 1.3 Services

**1986-1987** Civil service at Medical Institutions of RWTH Aachen (clinicum) in health care

**for years** Free activities in youth and adults supervision (in Christian communities and by own engagement)

### 1.4 Professional Activities

**1988-1992** Scientific coworker at Chair C for Mathematics of RWTH Aachen;  
chair held by: Prof. Dr. H. Th. Jongen

**1993** Referent in management of YMCA- (*Young Men Christian Association*-) headquarter of Germany (Kassel)

**1993-1995** Scientific coworker at Department of Mathematics at Darmstadt University of Technology,  
Member of Working Group 10 (Approximation and Control Theory);  
head of Working Group 10: Prof. Dr. W. Krabs

**1995-2000** Scientific assistant at Department of Mathematics at Darmstadt University of Technology;  
2000-2002: head of Working Group 10 (now: Nonlinear Analysis – Dynamical Systems and Control): Prof. Dr. G. Leugering

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<sup>1</sup> **Proposal of three topics for the habilitation lecture :**

1. *Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem*
2. *Statistische Versuchsplanung: Algorithmen für optimale Designs und Anwendungen in der multiplen polynomialen Regression*
3. *Reelle Rechenmodelle anhand des Konzepts von Blum, Shub und Smale*

**winter semester 2000-01** Chair by Proxy: Substitution of a Full Professorship in Mathematical Institute of University of Cologne (successor Professor Landers) and member of Center of Applied Informatics Cologne  
(October 1, 2000 – March 31, 2001)

**summer semester 2001 –**

**winter semester 2001-02** Chair by Proxy: Substitution of a Full Professorship in Faculty of Mathematics at Chemnitz University of Technology (successor Professor Tröltzsch)  
(April 1, 2001 – February 28, 2002)

**March 1, 2002 – February 28, 2003** Scientific coworker (docent) at ZAIK (Center of Applied Informatics Cologne) and CUBIC (Cologne University Bioinformatics Center), within research project „Bioinformatik 2001 plus – Molekulare Netzwerke in Organismen – Grundlagen und Anwendungen in Biotechnologie, Pharmazie und Medizin“

**since December 30, 2002** Full Professor at Institute of Applied Mathematics Middle East Technical University (METU) Ankara, Turkey (begin of teaching: March 1, 2003)<sup>2</sup>

At IAM of METU, I am one of the leaders of the following research groups:

- *Research Group on Computational Biology and Medicine,*
  - *Research Group on Inverse Problem,*
  - *Research Group on Optimization;*
- furthermore, I am collaborating in
- *Research Group on Risk Management / Financial Mathematics* and
  - *Research Group on Hybrid Systems;*

**since 2005** *Representative of German OR Society in Turkey,*

**August 20, 2007 — March 31, 2012** *Assistant to the Director* of IAM, METU.

**since April 1, 2012** *Assistant to the Director* of IAM, METU, again.

**since 2014** *Administrative Committee member* of Graduate School on Neurosciences and Neurotechnology, METU and Hacettepe University, Ankara, Turkey.

**since 2006:** External Reviewer at Nanyang Technological University, Singapore.

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<sup>2</sup> call on a professorship at German University in Cairo, Egypt (May 27, 2003); call on associate professorship at University of Ballarat, Australia (April 2009)

- since 2007:** External Reviewer of Hong Kong Research Council.
- 2013:** External Reviewer of at Faculty of Economics, University of Ljubljana, Slovenia.
- October 17, 2007** Appointment to (Permanent) *Guest Professor* at the Faculty of Economics, Business and Law at University of Siegen, Germany.
- March 31, 2008** Appointment to *Collaborator* at Center for Research on Optimization and Control (CEOC), University of Aveiro, Portugal;
- since 2010** *Collaborator* at Center for Research & Development in Mathematics and Applications (CIDMA), Department of Mathematics, University of Aveiro, Portugal.
- August 11, 2009** Appointment to *Researcher (Project Leader)* at Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia.
- August 2, 2011** Appointment to *Representative - Advisor* of Universitas Sumatera Utara (USU), Medan, Indonesia.
- November 1, 2011** Appointment to *Adjunct Professor* at School of Science, Information Technology and Engineering, University of Ballarat, Australia,
- August 29, 2015** Appointment to *Ambassador* of Department of Systems Engineering and Engineering Management of The Chinese University of Hong Kong.
- June 24, 2013** Appointment as *Member in the Board* of the national group in Indonesia of EURO Working Group on Methodology of Societal Complexity.
- November 8, 2013** Appointment as *Representative of German OR Society at IFORS Developing Countries Committee*.
- August 17-18, 2015** Appointment as *Ambassador* of Department of Systems Engineering and Engineering Management (SEEM), Chinese University of Hong Kong (CUHK).
- September 24, 2015** Appointment as *Member in the new Working Committee of Pacific Optimization Research Activity Group (POP)* in charge of liaison with Europe and Africa.
- since 2007** I am also Member of the Biomedical Engineering Program in the Graduate School of Natural and Applied Sciences of METU.
- since 2010** Member of Department of Geodetic and Geographic Information Technologies, METU.

<b>since 2010</b>	Affiliated Faculty at Bioinformatics Program at Informatics Institute of METU.
<b>since 2012:</b>	Member of Evaluation Committee of Research Work at Al al-Bayt University, Jordan.
<b>since 2013</b>	Affiliated Faculty at Department of Statistics, METU.
<b>since 2013</b>	Member of Evaluation Committee of Research Work at Periyar University, Salem, India.
<b>since 2013</b>	Peer Reviewer at Shota Rustaveli National Science Foundation (SRNSF), Georgia.
<b>since 2013</b>	External Reviewer at Faculty of Economics, University of Ljubljana, Slovenia.
<b>since 2013</b>	Assessor at Australian Research Council (ARC).
<b>since 2016</b>	Reviewer for VQR 2011-2014 by the National Agency on the Evaluation of University and Research Systems in Italy.
<b>since 2016</b>	Reviewer for National Science Center (Narodowe Centrum Nauki - NCN), Poland.
<b>since 2016</b>	Reviewer for Luxembourg National Research Fund (FNR) (OPEN).
<b>since 2017</b>	Co-director of KTO Karatay University, Lean & Green SCM Lab, Konya, Turkey.

## 1.5 Special Knowledge and Abilities

**Languages:** *German, English:* advanced in reading, writing, speaking,  
*French:* good foundations,  
*Turkish:* foundations.

**Computer abilities:** Basic, Fortran, Pascal; editing by TeX, LaTeX, MS Word;

**Further experiences:** supervision and support of students and doctorands; work in commissions, e.g., *diploma evaluation committee* (1995-2000); administration and management; co-editing and guest editing of international scientific journals; organization and leading of an international working group (EURO Continuous Optimization Working Group (EUROPT; [www.iam.metu.edu.tr/EUROPT/](http://www.iam.metu.edu.tr/EUROPT/)); editing and guest-editing journals; refereeing; scientific invitations and stays all over the world; visit of many international conferences, hereby, about 20 invitations to plenary/invited lectures, further semi-plenary lectures; *(co-) organisation of workshops, of summer institutes, conferences and symposia*; foundation and development of scientific, social, etc. working communities, e.g.,

EUROPT's application for the foundation of new EURO Working Groups *Operational Research for Development* and *Operational Research in Computational Biology, Bioinformatics and Medicine* which became accepted by EURO and founded in 2006; Faculty Advisor of SIAM Student Chapter at METU (since October 2010).

## 1.6 Scientific Working Fields

**Research Areas:** Financial mathematics, mathematical programming, nonlinear (continuous) optimization (especially: semi-infinite optimization, convex optimization, conic programming, nonsmooth optimization, optimization under uncertainty), applied probability, mathematical and computational statistics, theory of optimal control of ordinary, (some) partial, stochastic and stochastic partial differential equations, differential equations, mathematical modelling, Operations Research, quality analysis in manufacturing and finance, computational biology and bioinformatics, environmental and climate modeling, complexity theory, inverse problems and their numerical aspects, dynamical systems, discrete tomography, neuroscience, special aspects of discrete mathematics, discrete optimization and their applications, data mining, problems of development

**Memberships:**

- EUROPT (EURO Working Group on  
on Continuous Optimization), in
- EURO (Association of European  
Operational Research Societies),
- DHV (Deutscher Hochschulverband, Germany),
- DMV (Deutsche Mathematiker-Vereinigung),
- EMS (European Mathematical Society),
- GOR (Gesellschaft für Operations Research,  
Germany),
- ISCP (International Society for Computational Biology),
- POP (Pacific Optimization Research v Activity Group),
- The OR Society (Operational Research Soc. of the UK),
- ORSIS (Operational Research Society of Israel),
- ROADEF (Operational Research Society of France),
- CSOV (Operational Research Society of Czech  
Republic),
- SEIO (Society of Statistics and Operational Research  
of Spain),

- FORS (Finnish Operations Research Society),
- AIRO (Italian Operations Research Society),
- Management Science Society of Ireland,
- APDIO (Portugese Operations Research Society),
- SSI-SOR (Slovenian Operations Research Society IN-FORMATIKA),
- RuORS (Russian Operational Research Society),
- INFORMS Optimization Society (The Institute for Operations Research and The Management Sciences),
- SIAM (Society for Industrial and Applied Mathematics),
- WGGC (Working Group on Generalized Convexity),
- Alumni at Darmstadt University of Technology,
- AMaMeF (Advanced Mathematical Methods for Finance), A Scientific Programme of the European Science Foundation,
- MCDM (International Society on Multiple Criteria Decision Making),
- EURO Working Group “Methodology for Complex Societal Problems” (formerly), from 2017 onwards: International Climate Complexity International Climate Complexity Institute ICCI & IWPI,
- EURO Working Group “Financial Modelling”,
- EURO Working Group on “Ethics and OR”,
- EURO Working Group on “Retail Operations”,
- EURO Working Group on “Sustainable Supply Chains”,
- EURO Working Group on Data Science meets Optimization (EWG DSO),
- The Indonesia Research Society on Methodology of Societal Complexity,
- Ernst-Schröder-Center for Conceptual Knowledge Processing,

and (from July 2006 on):

- EURO WG ORD (EURO Working Group OR for Development; cofounder),
- EURO WG CBBM (EURO Working Group OR on Computational Biology, Bioinformatics and Medicine; cofounder).



At July 4, 2003, I became *Vice Coordinator* of *EUROPT*. At July 1, 2006, I became *Chair* of *EUROPT*; since May 22, 2008, I am *Past Chair* of *EUROPT*. Since early July 2006 I am *Past Chair* of *EURO WG CBBM* and member of *Advisory Board* of *EURO WG ORD*. Since June 2008, I am *Honorary Coordinator* of *EURO Working Group Methodology for Complex Societal Problems*, and from July 2008 on, I am *Vice Chair* of *EURO WG ORD*. In August 2012, I became a member of the *Managing Board* of *EURO WG* on “Ethics and OR”. In September 2015, I was appointed member in the *Working Committee* of *Pacific Optimization Research Activity Group (POP)* in charge of liaison with Europe and Africa.

Since April 2001, I have been *contact person* between *EUROPT* (from Europe) and *POP* (from Pacific region).

**Co- or Associate Editor** of

*Journal of Computational Technologies* (2000-2007);  
*Organizacija (Organization - Journal of Management, Information Systems and Human Resources)* (since beginning of 2008);  
*Global Journal of Technology and Optimization* (since February 2009);  
*Optimization* (from end of 2010 on);  
*Quantum Biosystems* (since 2010);  
*International Journal of Optimization and Control: Theories & Applications (IJOCTA)* (from end of 2010 on);  
*International Journal of Energy Optimization and Engineering (IJE OE)* (since 2010);  
*International Journal of Lean Thinking* (since 2010);  
*Journal System Research and Information Technologies* (since 2010);  
*Intellectual Systems and Aviation Problems* (since 2011);  
*Interdisciplinary Medicine* (since 2011);  
*Central European Journal of Operations Research (CEJOR)* (since 2011);  
*Caspian Journal of Mathematical Sciences (CJMS)* (since 2011; Advisory Board);  
*Journal of Diabetes and Metabolic Disorders* (since 2012);  
*OA Diabetes (an Open Access Journal)* (since 2012; Advisory Board);  
*Journal of Applied & Computational Mathematics* (since 2013),  
*Eastern European Journal of Enterprise Technologies* (since 2013),  
*International Journal of Diabetology & Vascular Disease Research (IJDVR)* (since 2013),

*International Journal of Food Science, Nutrition and Dietetics (IJFS)* (since 2013),  
*International Journal of Supply and Operations Management (IJSOM)* (since 2013),  
*International Journal of Computing and Optimization (IJCO)* (since May 2015),  
*International Operational Research: An International Journal (ORIJ)* (since May/June 2015),  
*Mathematical Problems in Engineering* (2011 - January 18, 2015),  
 member in the Advisory Board of *SDU journal of Natural and Applied Science* (since October 2015),  
*Journal of Business Systems Management Research (BSMR)* (in establishment; since January 2016),  
 member in the Editorial Advisory Board of *Journal of Engineering Sciences and Design*, by Engineering Faculty of Süleyman Demirel University, Isparta, Turkey (since August-September 2016), member in the Advisory Board of the *Harvard Deusto Business Research journal* (since 2016),  
*Member of Editorial Board of Journal of Numerical Algebra, Control and Optimization (NACO)* (from January 2017 onward),  
*Member of Editorial Board of Journal of Journal of Industrial and Management Optimization (JIMO)* (from January 2017 onward),  
*Member of Editorial Board of Süleyman Demirel University Faculty of Arts and Science* (from January/February 2017 onward),  
*Member of Editorial Board of Journal of Geodesy and Geoinformation* (from February 2017 onward),  
*Member of Editorial Board of Independent Journal of Management & Production (IJM&P)* (from February 2017 onward),  
*Member of Advisory Board and Editorial Board of Journal of Quantitative Methods (JQM)* (from June 2017 onward), *Journal of Histology and Cell Biology* (from July 2017) onward.

Editor of the Newsletter *On the "Life" in the German Operations Research Society*.

IFORS News Correspondent (of the newsletter IFORS News).

Member in Editorial Board of EUROPT e-Newsletter (until July 2013).

**Guest Editor**

of *European Journal of Operational Research (EJOR)*, *Discrete Applied Mathematics (DAM)*, *Central European Journal of Operations Research (CEJOR)*, *Optimization*, *Journal of Computational Technologies*, *Organizacija*, *Dynamics of Continuous*,

*Discrete and Impulsive Systems (Series B) (DCDIS-B), Journal of Applied and Computational Mathematics (JCAM), ISI Proceedings, AIP Conference Proceedings, EURO Journal on Decision Processes, Machine Learning, The Scientific World Journal, Mathematical Problems in Engineering, Annals of Operations Research (ANOR), Optimization Methods and Software (OMS), Numerical Algebra, Control and Optimal (NACO), Cogent Mathematics, Journal of Computational Science, Turkish Journal of Mathematics, Frontiers of Engineering Management and International Journal of Operations Research and Information Systems (IJORIS).* (cf. 2.2)

### Awards, Honours:

- *three Calls on Professorships* (at METU, Ankara, at German University in Cairo, Egypt, and (associate level) University of Ballarat, Australia); four further invitations to Professorships;
- *two Professorships by Proxy* (at Institute of Mathematics, University of Cologne, and Faculty of Mathematics, TU Chemnitz);
- appointment for becoming an *Examiner for Mathematics* in *Examination Division for Teaching in Secondary Schools of Scientific Office for Teaching at TU Darmstadt (Hessian Ministry of Culture, July 5, 2000)*;
- *Borchers-Plakette* of RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen) (1992)<sup>3</sup>;
- *Best Paper Award* for the paper and joint presentation: D. Lozuvan, S.W. Pickl and G.-W. Weber, Optimization, monotonicity and the determination of Nash equilibria, at the conference *Computing Anticipatory Systems, CASYS'03* (Liege, Belgium, August 2003),  
with the additional award: *Belgium Crystal*;
- *Best Paper Award* for the paper and joint presentation: M. Akhmet, H. Öktem, S.W. Pickl and G.-W. Weber, An anticipatory extension of Malthusian model, at the conference *Computing Anticipatory Systems, CASYS'05* (Liege, Belgium, August 2005),  
with the additional award: *Belgium Crystal*;

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<sup>3</sup> furthermore: *books (awards)* for the results of junior high school diploma (Junior High School Bad Berleburg) and Abitur diploma (final examination; Johannes-Althusius Secondary School Bad Berleburg), and several *acknowledgements* and *certificates* by students

- *Award of Advisorship for a Best Thesis of METU* for the MSc thesis of F.B. Yilmaz *Mathematical Modelling and Approximation of Gene Expression Patterns and Gene Networks*;
- *speaker* of YUUP (METU) BIYOTIP Group Bioinformatics / Computational Biology and Medicine;
- Invitation to become Guest Scientist or Visting Professor from many international places (recently, e.g., from Austria, Australia, Belgium, Canada, China, Germany, Israel, Malaysia, Kazakhstan, Poland, Portugal, Japan, Taiwan, Spain and the UK).
- Insignia (medal award) by *GATA* (Turkish Medical School and Hospital of Armed Forces, Ankara, Turkey), January 2006;
- Vice Chair, Chair, Past Chair, now: Honorary Chair of EUROPT; founder and Past Chair of the EURO Working Group “OR in Computational Biology, Bioinformatics and Medicine”; founder, Vice Chair, now Honorary Chair of “OR for Development”; Honorary Chair of EURO Working Group on Societal Complexity; Honorary Member of E-CUBE (EURO Working Group on Experimental Economics (from July 2011 on) (cf. Subsection 1.6, Memberships);
- appointment as Representative of German OR Society in Turkey (from 2007 on);
- Performance Award of METU for the year 2005,
- Performance Award of METU for the year 2006,
- Performance Award of METU for the year 2007,
- Performance Award of METU for the year 2008,
- Performance Award of METU for the year 2009,
- Performance Award of METU for the year 2010,
- Performance Award of METU for the year 2011,
- Performance Award of METU for the year 2012,
- Performance Award of METU for the year 2013,
- Performance Award of METU for the year 2014,
- Performance Award of METU for the year 2015,
- Performance Award of METU for the year 2016.
- Award by EURO (Association of European OR Societies)

for contributions to scientific organization of Streams for EURO Conferences during the last 5 years (July 2007): “silver band”.

- *(Permanent) Guest Professor* at the Faculty of Economics, Business and Law at University of Siegen, Germany (appointment at October 17, 2007).
- *Collaborator* at Center for Research on Optimization and Control (CEOC), University of Aveiro, Portugal (2008-2010).  
*Collaborator* at Center for Research and Development in Mathematics and Applications (CIDMA), University of Aveiro, Portugal (since 2010).
- *Researcher* at Faculty of Science, Universiti Teknologi Malaysia (UTM), Skudai, Malaysia (appointment at August 11, 2009).
- Call for *External Reviewer at Nanyang Technical University, Singapore* (July 2007),
- Call for *External Reviewer at Research Grants Council (RGC) of Hong Kong* (January 2008),
- Three appointment as *SIAM Representative* at international conferences: Joint EUROPT-OMS Conference (Prague, Czech Republic, July 4-7, 2007), Mini 20th EURO Conference (Neringa, Lithuania, May 20-23, 2008) and ECCO 2012 (Antalya, Turkey, April 26-29, 2012).
- Appointment to be *Honorary Coordinator of EURO Working Group Methodology for Complex Societal Problems*, June 2008.
- Appointment to be *Vice Chair of EURO Working Group OR for Development*, July 2008.
- Award of *EUROPT'08 Clock* at the occasion of EURO Mini Conference - Continuous Optimization and Knowledge-Based Technologies, Neringa, Lithuania, May 20-23, 2008.
- Special service award at *IFORS 2008*, Sandton, South Africa, July 13-18, 2008.
- *Best Lecturer* at the Conference “3rd International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 11-24, 2008 (elected by the students).
- Various further awards at the conferences “Achievements and Applications of Contemporary Informatics, Mathema-

- tics and Physics”, Kiev, Ukraine, 2006, 2007, 2008, 2009, 2010 and 2011.
- *Award of Advisorship for a Best Thesis of METU* for the MSc thesis of F. Yerlikaya, *A New Contribution to Non-linear Robust Regression and Classification with MARS and Its Application to Data Mining for Quality Control in Manufacturing* (May 27, 2009).
  - *Appreciation for Best Session Chair* at Global Conference for Power, Control and Optimization in Bali, Indonesia, June 1-3, 2009.
  - IFORS Medaillon for service in Organization of EURO XXIII 2009, Bonn, Germany, July 5-8, 2009 (July 4, 2009).
  - Picture present for service in Organization by the Organizers of EURO XXIII 2009, Bonn, Germany, July 5-8, 2009 (July 7, 2009).
  - *C3 Research Award — Gold Star Award for Distinguished Contributions in the Area of Operations Research*, Munich, Germany, July 21, 2010.
  - *EUROPT'10 Insignia* at the occasion of EURO Mini Conference - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey June 23-26, 2010.
  - Appointment as *Honorary Chair of EUROPT (EURO Working Group on Continuous Optimization)*, July 2010.
  - Appointment as *Advisor of EURO for EURO Conferences*, July 2010.
  - *Insignia* for Achievements as an Organizer of the Symposium *Mathematical Methods from Probability, Optimization and Data Mining in Finance, Life and Human Sciences* at the occasion of 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, July 28-31, 2010.
  - *Best Tutor* at the Conference “5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, in the Stream *Applied Mathematics*, Kiev, Ukraine, August 3-15, 2010 (elected by the students).
  - Appointment as *Honorary Chair of EURO ORD (EURO Working Group on OR for Development)*, September 2010.
  - Appointment as *Faculty Advisor of SIAM Student Chapter*

at METU, October 2010.

- Appreciation for participation in the Panel *What is a University?* at World Universities Congress (Canakkale, Turkey, October 20-24, 2010) by the president of Canakkale Onsekiz Mart University.
- *Award for a Best Presentation* at 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011.
- Appointment as a EURO Representative in the project to make available educational resources at IFORS website (since May 2011) for the special sector: OR for Developing Countries.
- Appointment as Member and Chair in the project to make available resources on OR for Developing Countries at IFORS website (since July 2011).
- Appointment as *Honorary Member of E-CUBE (EURO Working Group on Experimental Economics)* (from July 2011 on).
- Appointment as *Representative - Advisor of University of North Sumatra*, Medan, Indonesia (from August 2011 on).
- *Award of Advisorship for a Best Thesis of METU* for the MSc thesis of A. Özmen, *Robust Conic Quadratic Programming Applied to Quality Improvement - A Robustification of CMARS* (June 6, 2012).
- Appreciation / awards by the organizers and by EUROPT at the occasion of The 10th EUROPT Workshop on Advances in Continuous Optimization, Siauliai, Lithuania, July 5-7, 2012.
- Appreciation / awards by the organizers and by EURO at the occasion of EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
- Appreciation / awards by the organizers at the occasion of 1st International Student Congress “International in Turkey”, METU, Ankara, Turkey, March 22, 2014.
- Call for Member of Member of Evaluation Committee of Research Work at Periyar University, Salem, India (2012).
- Call for Member of Evaluation Committee of Research Work at Al al-Bayt University, Jordan (2012).
- Appreciation / certificate at the occasion of ICORD - EURO ORD Workshop, Rome, Italy, June 27-28, 2013.

- Appointment as *Member in the Board* of the national group in Indonesia of EURO Working Group on Methodology of Societal Complexity (from June 2013 on).
- Appointment as *External Reviewer* of at *Faculty of Economics, University of Ljubljana*, Slovenia (from 2013 on).
- Appointment as *Assessor* with the *Australian Research Council (ARC)* (from 2013 on).
- Appreciation / award by EURO at the occasion of EURO-INFORMS XXVI 2013, Rome, Italy, July 1-4, 2013.
- Appreciation / certificate at the occasion of AACIMP-2013, Kyiv, Ukraine, August 1-17, 2013.
- Appreciation / certificate at the occasion of InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
- Performance Award of Erzurum Technical University, Turkey, on *Stochastic Dynamics and Its Optimization, in Economics and Finance, Science and Engineering*, Erzurum, Turkey, November 18, 2013.
- Appointment as *Representative of German OR Society at IFORS Developing Countries Committee* (November 2013).
- Appreciation Certificate by IFORS at the occasion of ICORD - EURO ORD Workshop, Lleida, Spain, July 11-12, 2014.
- Appreciation Certificate by IFORS at the occasion of IFORS 2014, Barcelona, Spain, July 13-18, 2014.
- Appreciation Certificate at the occasion of AACIMP-2014, Kyiv, Ukraine, August 1-15, 2014.
- Honoured Guest at 66th Anniversary of the Universal Declaration of Human Rights “Panel of Gender Inequality”, METU, Ankara, Turkey, December 6, 2014.
- METU Best PhD. Thesis Award (December 19, 2014): ODTÜ Prof. Dr. Mustafa N. Parlar Eğitim ve Araştırma Vakfı — ODTÜ Yılım Tezi Ödülü, for the PhD Thesis of Fatma Yerlikaya Özkurt: *Refinement, Extensions and Modern Applications of Conic Multivariate Adaptive Regression Splines*, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, supervised by me.
- Appreciations by OR Society of China and Shanghai University at the occasion of Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shang-



- hai University, China, May 10-12, 2015.
- Certificate of Appreciation at the occasion of EWG ORD - IFORS Workshop on OR for Development, Glasgow, UK, July 9-10, 2015.
  - Interview with Radio Voice of Kyiv, interview on Smart Cities and Summer School AACIMP-2015, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
  - Certificate of Appreciation at the occasion of AACIMP-2015, Kyiv, Ukraine, August 4-18, 2015.
  - Honorary appointment as *Ambassador* of Department of Systems Engineering and Engineering Management of The Chinese University of Hong Kong (since August 2015).
  - Certificate of Appreciation and Crystal of USU at the occasion of InteriOR 2015, Medan, Indonesia, August 21-23, 2015.
  - Appreciation / certificate by Slovenian OR Society and University of Maribor at the occasion of SOR '15, The 13th International Symposium on Operations Research in Slovenia, Bled, Slovenia, September 23-25, 2015.
  - Plaque of appreciation by organizers at the occasion of IC-CESEN 2015 - 2nd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October 14-19, 2015.
  - Certificate and plate of appreciation by organizers at the occasion of ICIE 2015 - The 12th International Conference on Industrial Engineering, Tehran, Iran, January 25-26, 2016.
  - Serhat Özyar PhD. Thesis Award (April 2016): for the PhD Thesis of Ayse Özmen: *Refinement, Extensions and Modern Applications of Conic Multivariate Adaptive Regression Splines*, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, supervised by me.
  - Certificate of Appreciation at the occasion of EWG ORD 2016 - Workshop on OR for Development, Poznan, Poland, June 30 - July 1, 2016.
  - Appreciation at the occasion of EURO 2016, Poznan, Poland, July 3-6, 2016.

- Certificate of Appreciation at the occasion of ICORD 2017 - The International Conference on OR for Development, Quebec City, Canada, July 13-14, 2017.
- Certificate of Appreciation at the occasion of IFORS 2017, Quebec City, Canada, July 17-21, 2016.
- Carpet plate of appreciation by organizers at the occasion of ICCESN 2016 - 3rd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October 19-24, 2016.
- Shawl of appreciation, plate and certificate by organizers at the occasion of InteriOR 2017, Medan, Indonesia, August 2017.
- Certificate of appreciation by organizers at the occasion of Vising Professor, “International Public Lecture”, Tunas Bangsa Computer Management Academy, Siantar, Sumatra, Indonesia, August 2017.
- About 70 invitations to *invited/plenary lectures* at international conferences and workshops, several (e.g., semi-plenary) invitations; about 10 times to *Organization or Steering Committees, Advisor or Advisory Boards*, about 130 invitations to *Scientific/Program Committees*, among of them to EURO XXI, Reykjavik, Iceland, 2006, where I was Plenary Chair, INFORMS International 2007, Puerto Rico, 2007, EURO XXIII in Bonn, Germany, 2009, EURO XXIV, Lisbon, Portugal, 2010, IFORS 2011 in Melbourne, Australia, 2011, EURO XXV, Vilnius, Lithuania, 2012, EURO-INFORMS 2013 in Rome, Italy, IFORS 2014, Barcelona, Spain, EURO 2015, Glasgow, UK, EURO 2016, Poznan, Poland, and IFORS 2017, Quebec, Canada, to EURO XXII, Prague, Czech Republic, 2007, and EURO XXIII, Bonn, Germany, where I was in OC, to many workshops (e.g., of EUROPT, EURO CBBM, EURO ORD), EURO Mini Conferences, EURO Summer Institutes, IFIP Conferences, summerschools in different parts of the world, etc. (cf. also [www.iam.metu.edu.tr/EUROPT/](http://www.iam.metu.edu.tr/EUROPT/), Scientific events, and 6.).
- Various Grants of German Science Foundation (Deutsche Forschungsgemeinschaft, DFG), European Office of Aerospace Research and Development (EOARD), The Association of European OR Societies (EURO), European Science Foundation (ESF), “Applied Mathematical Methods for Finance” (AMaMeF; a Scientific Programme of ESF) and and The Scientific and Technological Research Council of

Turkey (TÜBITAK).

## 2 Publication List

### 2.1 Monographies and Books

- G.-W. Weber, *Charakterisierung struktureller Stabilität in der nichtlinearen Optimierung*, Aachener Beiträge zur Mathematik 5, eds: H.H. Bock, H.Th. Jongen and W. Plesken, Augustinus publishing house (now: Mainz publishing house) Aachen, 1992.
- G.-W. Weber, *Generalized Semi-Infinite Optimization and Related Topics*, Heldermann publishing house, Research and Exposition in Mathematics 29, Lemgo, eds: K.H. Hofmann and R. Wille, 2003.
- P. Vasant, G.-W. Weber and V.N. Dieu, *Handbook of Research on Modern Optimization Algorithms and Applications in Engineering and Economics* (pp. 1-684). Hershey, PA: IGI Global. (2016); doi:10.4018/978-1-4666-9644-0.
- R. Fonseca, G.-W. Weber and J. Telhada, *Computational Management Science - State of the Art 2014*, Springer's Lecture Notes in Economics and Mathematical Systems (pp. 1-245), ISBN 978-3-319-20430-7, DOI: 10.1007/978-3-319-20430-7 (at the occasion of 11th International Conference on Computational Management Science, May 29-31 2014, Lisbon, Portugal).
- P. Vasant, S.Z. Alparslan-Gök and G.-W. Weber, *Handbook of Research on Emergent Applications of Optimization Algorithms, Volume 1*, IGI Global, Hershey PA, USA, to appear.
- P. Vasant, S.Z. Alparslan-Gök and G.-W. Weber, *Handbook of Research on Emergent Applications of Optimization Algorithms, Volume 2*, IGI Global, Hershey PA, USA, to appear.

The book *Applied Optimization Methodologies in Manufacturing Systems* (Ö.F. Yilmaz and B. Christiansen, eds.) by IGI Global is in preparation; I am in its Editorial Advisory Board.

The book *Fractal Approaches for Modeling Financial Assets and Predicting Crises* (I. Nekrasova, O. Karnaukhova and B. Christiansen, eds.) by IGI Global is in preparation; I am in its Editorial Board.

### 2.2 Edition of Journals, Special Issues, and Proceedings

- Member of Editorial Board of the journal *Optimization: from end of 2010 on*.
- Member of Editorial Board of *Journal of Computational Technologies*: 2000-2007.
- Member of Editorial Board of *Organizacija (Organization - Journal of Management, Information Systems and Human Resources)*: since 2008.

- Member of Editorial Board of Global Journal of Technology and Optimization: since 2009.
- Member of Editorial Board of journal Quantum Biosystems: since 2010.
- An Editor-in-Chief of International Journal of Optimization and Control: Theories & Applications (IJOCTA): from end of 2010 on.
- An Editor-in-Chief of International Journal of Energy Optimization and Engineering (IJEEOE): since 2010.
- Co-Editor of International Journal of Lean Thinking: since 2010.
- Member of Editorial Board of Journal System Research and Information Technologies (National Technical University of Ukraine “Kyiv Polytechnic Institute”): since 2010.
- Member of Organizing Committee of the magazine Intellectual Systems and Aviation Problems (National Academy of Aviation of Azerbaijan, Baku): since 2011.
- Member of Editorial Board of journal Interdisciplinary Medicine: since 2011.
- Member of Editorial Board of Central European Journal of Operations Research (CEJOR): since 2011.
- Member of Advisory Board of Caspian Journal of Mathematical Sciences (CJMS): since 2011.
- Member of Editorial Board of Journal of Diabetes and Metabolic Disorders: since 2012.
- Member of Advisory Board of OA Diabetes (an Open Access Journal): since 2012.
- Member of Editorial Board of Journal of Applied & Computational Mathematics: since 2013.
- Member of Editorial Board of International Journal of Supply and Operations Management (IJSOM): since 2013.
- Member of Editorial Board of Eastern European Journal of Enterprise Technologies: since 2013.
- Member of Editorial Board of International Journal of Diabetology & Vascular Disease Research (IJDVR): since 2013.
- Member of Editorial Board of International Journal of Food Science, Nutrition and Dietetics (IJFS): since 2013.
- Member of Editorial Board of International Journal of Computing and Optimization (IJCO): since May 2015.
- Member of Editorial Board of International Operational Research: An International Journal (ORIJ): since May/June 2015.
- Member of Advisory Board of Süleyman Demirel University journal of Natu-

- ral and Applied Science: since October 2015.
- Member of Editorial Board of journal *Mathematical Problems in Engineering*: 2011 - January 18, 2015.
  - Member in the Editorial Advisory Board of *Journal of Engineering Sciences and Design* (Engineering Faculty of Süleyman Demirel University, Isparta, Turkey) - since August-September 2016.
  - Member of Editorial Board and Managing Editor of *Journal of Business Systems Management Research (BSMR)*: in establishment; since January 2016.
  - Member in the Advisory Board of the *Harvard Deusto Business Research journal* (since 2016).
  - Member of Editorial Board of *Numerical Algebra, Control and Optimization (NACO)*: from January 2017 onward.
  - Member of Editorial Board of *Journal of Industrial and Management Optimization (JIMO)*: from January 2017 onward.
  - Member of Editorial Board of Süleyman Demirel University Faculty of Arts and Science: from January/February 2017 onward.
  - Member of Editorial Board of *Journal of Geodesy and Geoinformation*: from February 2017 onward.
  - Member of Editorial Board of *Independent Journal of Management & Production (IJM&P)*: from February 2017 onward.
  - Member of Advisory Board and Editorial Board of *Journal of Quantitative Methods (JQM)*: from June 2017 onward.
  - Member of Editorial Board of *Journal of Histology and Cell Biology*: from July 2017 onward,
  - S. Pickl and G.-W. Weber (guest editor and coeditor, respectively), *Colloquy Optimization – Structure and Stability of Dynamical Systems*, *Journal of Computational Technologies* 7, Special Issue (2002).
  - J. Brinkhuis, T. Illes, H. Frenk, G. Still, G. Weber and T. Terlaky (guest editors), *Smooth and Nonsmooth Optimization*, Feature Cluster in *European Journal of Operational Research* 157, 1 (2004).
  - B. Karasözen, M. Pinar, T. Terlaky and G.-W. Weber (guest editors), *Advances in Continuous Optimization*, feature cluster in *European Journal of Operational Research* 169, 3 (2006).
  - B. Karasözen, A. Rubinov and G.-W. Weber (guest editors), *Optimization in Data Mining*, special issue (or feature cluster) of *European Journal of Operational Research* 173, 3 (2006).
  - M. Dür, B. Karasözen, T. Terlaky and G.-W. Weber (guest editors), *Challenges of Continuous Optimization in Theory and Applications*, special issue (or

- feature cluster) of *European Journal of Operational Research* 181, 3 (2007).
- T. Illés, M.A. Lopez, T. Terlaky, J. Vörös and G.-W. Weber (guest editors), *Continuous Optimization in the Industry*, in the feature cluster issue *European Journal of Operational Research* 191, 3 (2008).
  - S.W. Pickl, G.-W. Weber and M. Zachariasen (guest editors), Special Issue of *Central European Journal of Operations Research*, on OR for Better Management of Sustainable Development at the occasion of EURO XXI 2006, *Central European Journal of Operations Research (CEJOR)* 15, 3 (September 2007).
  - O. Stein, G. Still, T. Terlaky and G.-W. Weber (guest editors), *Advances in Continuous Optimization*, special issue of *CEJOR (Central European Journal of Operations Research)* 16, 2 (2008) at the occasion of 5th EUROPT Workshop “Advances in Continuous Optimization” (Reykjavik, Iceland, June 30 - July 1, 2006).
  - Ö. Uğur, A.D. Sezer and G.-W. Weber, *Collected Contributions of Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus in Memory of Professor Hayri Körezlioğlu* (Ankara, Turkey, April, 25-26, 2008), on the CD of the workshop.
  - L. Sakalauskas, G.-W. Weber and E.K. Zavadskas (guest editors), *ISI Proceedings of International Conference EURO Mini Conference “Continuous Optimization and Knowledge-Based Technologies” (EurOPT-2008)* (Neringa, Lithuania, May 20-23, 2008) (ISI: International Statistical Institute).
  - G.-W. Weber and D. DeTombe (editors), *Complex Societal Problems, Sustainable Living and Development, IAM, METU, Ankara, May 13-16, 2008*, Greenhill & Waterfront (and Dorien J. DeTombe), Volume 19, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK, North-America: Montreal, Canada, ISBN/EAN 978-90-77171-29-5, Version 001 (small book), Nur 916, May 2008.
  - U. Leopold-Wildburger, G.-W. Weber and M. Zachariasen (guest editors), *OR for Better Management of Sustainable Development*, special issue of *European Journal of Operational Research* 193, 3 (March 16, 2009) (at the occasion of EURO XXI 2006).
  - A. Dress, B. Karasözen, P.F. Stadler and G.-W. Weber (guest editors), *Networks in Computational Biology*, special issue of *Discrete Applied Mathematics (DAM)* 157, 10 (2009).
  - G.-W. Weber (guest editor), *Continuous Optimization in Finance*, special issue of *Optimization* 58, 3 (2009) 263—388.
  - D. DeTombe and G.-W. Weber (editors), *State of the Art Workshop Societal Complexity 2009 EURO XXIII Conference Bonn, Germany, Europe, July 5, 2009, 23 European Conference on Operational Research*, Volume 19, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford,

- UK, North-America: Montreal, Canada, ISBN/EAN 978-90-77171-29-5, Version 001 (small book), Nur 916, June 2009.
- X. Sun, S. Zhu, Z. Li and G.-W. Weber (guest editors), *Special Issue on Optimization and Dynamics in Finance*, of DCDIS-B, Dynamics of Continuous, Discrete and Impulsive Systems 17, 1b (Series B) 2010.
  - M. Kljajic, G.-W. Weber and H. Akar (guest editors), *Recent Advances in Systems, Decision Making, Education and other Complex Problems*, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 43, 3 (May-June 2010) (at the occasion of EURO XXIII 2009).
  - N. Barsoum, G.-W. Weber and P. Vasant (editors), *Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010*, AIP Conference Proceedings, Volume 1239 (2010), ISBN: 978-0-7354-0785-5.
  - D. DeTombe, C. Brugha, G.-W. Weber and F. Wenstop (editors), *Book of Abstracts of State of the Art Workshop LISBON 2010 Operational Research — EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, proceedings, Volume 22, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, ISBN / EAN 978-90-77171-34-9, Version 001, 16 pages (July 2010), Nur 916.
  - P. Letmathe, A. Tuma and G.-W. Weber, *OR and Environmental Management*, Feature Sample at the Occasion of EURO 2009, CEJOR 19, 4 (December 2011) 391-438.
  - G.-W. Weber and E. Kropat, *Special Issue: 23rd European Conference on Operational Research in Bonn, July 5-8, 2009*, Optimization 60 (10-11) (October— December 2011) 1233—1398, ISSN 0233-1934.
  - C. Dincer, R. Kasimbeyli and G.-W. Weber, Special Issue: 24th Mini-EURO Conference on *Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23-26, 2010*, Optimization 61(4) (2012) 358-488.
  - E. Kropat and G.-W. Weber, *Special Issue on OR in the Financial Sector at the occasion of the 24th European Conference on Operational Research, EURO XXIV, July 11-14, 2010, Lisbon, Portugal*, feature sample, integrated into CEJOR 20, 3 (2012).
  - M. Kljajic and G.-W. Weber (guest editors), *Advances in Systems, Decision Making, Collaborative Work and Learning*, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 45, 5, (2012) special issue of at the occasion of 23rd Conference on System Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2011, in the stream Simulation Based Decision Support.

- A. Fügenschuh and G.-W. Weber (guest editors), *Discrete-Continuous Control and Optimization Problems — Theory, Methods, and Application; on the Occasion of the EURO 2010 Conference in Lisbon, Portugal*, Optimization 61(8) (July-September 2012) special issue at the occasion of EURO 24, Lisbon, July 11-14, 2010, 901-1073.
- D. DeTombe, C. Brugha, G.-W. Weber and F. Wenstop (editors), *Book of Abstracts State of the Art Workshop, 26th European Conference on Operational Research, Rome, 2013, EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR* Volume 27, Greenhill & Waterfront (publisher), Europe: Amsterdam, The Netherlands; Guilford, UK; North-America: Montreal, Canada; Nur 916, 2013.
- S. Martello, G.-W. Weber and R. Kasimbeyli (guest editors), Optimization 62, 10 (2013) 1291-1397, *An overview of advances in combinatorial optimization and related topics*, special issue of at the occasion of ECCO XXV Conference, Antalya, Turkey, April 26-28, 2012.
- A.D. Sezer and G.W. Weber (guest editors), Optimization 62, 11 (2013) 1399-1602, special issue on *Optimization Methods in Mathematical Finance*.
- E. Akyildiz, Ö.L. Gebizlioglu, B. Karasözen, Ö. Ugur and G.W. Weber (guest editors), Journal of Computational and Applied Mathematics (JCAM) 259, Parts A and B (March 2014), special issue of Journal of Applied and Computational Mathematics (JCAM) *Selected Papers on Applied and Computational Mathematics - On the occasion of 10th anniversary of the foundation of Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey*, 1-978.
- G.-W. Weber, A. Kruger, J.E. Martinez-Legaz, B. Mordukhovich and L. Sakalauskas (guest editors), Optimization 63, 1 (2014) 1-166, *Special Issue on Recent Advances in Continuous Optimization on the Occasion of the 25th European Conference on Operational Research (EURO XXV 2012)*.
- M. Kljajic and G.-W. Weber, Organizacija (Organization - Journal of Management, Information Systems and Human Resources), special issue *Recent Advances in Systems, Decision Making, Business Intelligence and Learning*, 47, 2 (2014) 79-127.
- D. DeTombe, C. Brugha, G.-W. Weber and F. Wenstp (editors), *Book of Abstracts of State of the Art Workshop Barcelona 2014. EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Volume 29. Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2014; ISBN / EAN 978-90-77171-48-6.
- M. Bogdan, C.-A. Comes, D. Stefan and G.-W. Weber, *Special Issue on Financial Optimization, Optimization in Finance - OPTFIN 2012 Workshop*, Optimization 63, 12 (2014) 1781-1901.
- A. Bagirov, K. Miettinen and G.-W. Weber, *Special Issue OR - Connec-*



*ting Sciences Supported by Global Optimization related to the 25th European Conference on Operational Research (EURO XXV 2012)*, Journal of Global Optimization (JOGO) 60, 1 (September 2014) 1-120.

- G.-W. Weber, J. Blazewicz, M. Rauner and M. Turkay (editors), “*Recent Advances in Computational Biology, Bioinformatics, Medicine, and Healthcare by Modern OR*”, Central European Journal of Operations Research (CEJOR) 22, 3 (September 2014) 427-589; Special Issue at the occasion of the 25th European Conference on Operational Research, EURO XXV 2012, July 8-11, 2012, in Vilnius, Lithuania.
- H. Mawengkang, T. Tulusjp, S. Suwilo, M. Ramli, G.-W. Weber, G. Wäscher and E. del Rosario, Proceedings of InteriOR 2013, the 2nd International Seminar on Operational Research, Department of Mathematics, University of Northern Sumatra, Indonesia; ISBN 978-602-19937-1-2.
- P. Vasant, G.-W. Weber, N. Barsoum and V.N. Dieu, Special Issue on Power, Control and Optimization in The Scientific World Journal: Computer Science, Scientific World Journal, Volume 2015 (2015); Article ID 964581, 2 pages; Article ID 769241, 7 pages; Article ID 836484, 12 pages; Article ID 452863, 11 pages; Article ID 391975, 7 pages; Article ID 763692, pages; 7 Article ID 678095, 10 pages; Article ID 138254, 6 pages; Article ID 462312, 14 pages; Article ID 487549, 6 pages; Article ID 724740, 9 pages; Article ID 743 470, 9 pages; Article ID 580854, 8 pages; Article ID 978167, 15 pages; Article ID 894018, 24 pages; Article ID 313164, 9 pages; Article ID 631604, 13 pages; Article ID 271087, 16 pages; Article ID 398235, 16 pages; Article ID 305 085, 6 pages; Article ID 279217, 8 pages; Article ID 535294, 13 pages; Article ID 430190, 8 pages; Article ID 352 809, 7 pages; Article ID 101529, 14 pages; Article ID 791690, 9 pages; Article ID 718348, 8 pages; Article ID 549094, 8 pages; Article ID 845307, 10 pages; Article ID 965915, 11 pages; <http://www.mediafire.com/view/5fabff92vf0rj4l>.
- T. Tchemisova, A. Freitas, A. Plakhov and G.-W. Weber, Special Issue: Optimization in the Natural Sciences, Optimization 64, 6 (March 2015) 1363-1407.
- P. Vasant, G.-W. Weber and V.N. Dieu, Special Issue on Classical and Hybrid Optimization Approaches and Their Applications in Engineering and Economics, of Mathematical Problems in Engineering, vol. 2015 (2015); Article ID 917093, 2 pages; Article ID 379250, 10 pages; Article ID 914108, 13 pages; Article ID 351354, 13 pages; Article ID 320130, 7 pages; Article ID 814084, 5 pages; Article ID 639787, 10 pages; Article ID 587925, 11 pages; Article ID 329753, 8 pages; Article ID 754582, 8 pages; Article ID 594345, 7 pages; Article ID 126404, 17 pages (<http://www.hindawi.com/journals/mpe/si/470798/>).
- M. Kljajic and G.-W. Weber, Recent Advances in Simulation based decision making in business process, special issue in Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 48, 3 (2015) 143-213.

- V. Strijov, G.-W. Weber, R. Weber and S. Özögür Akyüz, “Special issue Data Analysis and Intelligent Optimization with Applications, Machine Learning 101, 1 (October 2015) 1-435.
- U. Reisach, D. deTombe and G.-W. Weber, Special Issue: International Aspects of OR, Central European Journal of Operations Research (CEJOR) 27:4 (December 2016) 797-922 (special issue at the occasion of IFORS 2014, Barcelona, Spain).
- S.Z. Alparslan-Gök and G.-W. Weber, Special Issue on “Advances of Optimization in Science and Application at the Occasion of the International Conference on Computational and Experimental Science and Engineering (ICCE-SEN 2014), Optimization Methods and Software (OMS) 31, 3 (April 2016) 445-534.
- G.-W. Weber, Associate (guest) Editor of papers on “Applications of Interval Techniques and Other Techniques with Automatic Results Verification to Optimization in Engineering, Mathematical Problems in Engineering (state April 2016); Volume 2015 (2015): Article ID 671527, 7 pages, <http://www.hindawi.com/journals/mpe/2015/671527/>; Volume 2016 (2016): Article ID 4179638, 10 pages, <http://dx.doi.org/10.1155/2016/4179638>.
- F. Wenstop, C. Miralles and G.-W. Weber, Featured Papers on Operational Research and Ethics, EURO Journal on Decision Processes (EJDP) 4, 1-2 (June 2016) 1-84.
- H. Mawengkang and G.-W. Weber, Associate (guest) Editors of 3 papers - distributed sample issue - in Numerical Algebra, Control and Optimization (NACO) 6, 2 (June 2016) 161-219 (at the occasion of 3rd International Seminar on Operational Research (InteriOR 2015), Medan, Indonesia).
- H. Mawengkang and G.-W. Weber, Associate (reviewing) Editors of 1 paper - distributed sample issue, Cogent Mathematics (at the occasion of 3rd International Seminar on Operational Research (InteriOR 2015), Medan, Indonesia) (2016).
- D. DeTombe, C. Brugha and G.-W. Weber (eds.), Book of Abstracts “State of the Art Workshop of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 31, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-50-9.
- D. DeTombe, C. Brugha, E. Kropat, P. Kunsch and G.-W. Weber (eds.), Book of Abstracts “Ethics and OR of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 32, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-51-6.

- E. Kropat, R.A. Tikidji-Hamburyan and G.-W. Weber, Special Volume *Operations Research for Neuroscience*, to appear in *Annals of Operations Research (ANOR)*.
- G.-W. Weber and A. Mirzazadeh, NACO Special Issue related to 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, NACO (Numerical Algebra, Control and Optimization):  
A. Ahmad and H. Davari-Ardakani, A Multistage Stochastic Programming Framework for Cardinality Constrained Portfolio Optimization (NACO 7, 3 (September 2017) 359-377); S. Moslemi and A. Mirzazadeh, Performance Evaluation of Four-Stage Blood Supply Chain with Feedback Variables Using NDEA Cross-Efficiency and Entropy Measures Under IER Uncertainty; F. Ahmadzadeh, K. Jederström, M. Plahn, A. Olsson and I. Foyer, An investigation of the most important factors for sustainable product development using evidential reasoning; E. Babaei Tirkolaee, A. Goli, M. Bakhsi and I. Mahdavi, A Robust Multi-Trip Vehicle Routing Problem of Perishable Products with Intermediate Depots and Time Windows; M. Zahedi-Seresht, G.-R. Jahanshahloo, J. Jablonsky and S. Asghariniya, A New Monte Carlo Based Procedure for Complete Ranking Efficient Units in DEA Models; M. Abouei Ardakan, A.K. Beheshti, S.H. Mirmohammadi, H. Davari-Ardakani, A hybrid meta-heuristic algorithm to minimize the number of tardy jobs in a dynamic two-machine flow shop problem; to be continued.
- Z. Wu, G.-W. Weber and C. Yu, NACO Special Issue related to The 10th International Conference on Optimization: Techniques and Applications (ICOTA 2016), Ulaanbaatar, Mongolia, NACO (Numerical Algebra, Control and Optimization):  
V. Srochko, V. Antonik and E. Aksenyushkina, Sufficient Optimality Conditions for Extremal Controls Based on Functional Increment Formulas (NACO 7, 2 (June 2017) 191-199); S. Sorokin and M. Staritsyn, Feedback Necessary Optimality Condition for a Class of Terminally Constrained State-Linear Variational Problems Inspired by Impulsive Control (NACO 7, 2 (June 2017) 201-210); R. Enkhbat, E.A. Finkelstein, A.S. Anikin and A.Y. Gornov, Global Optimization Reduction of Generalized Malfatti's Problem (NACO 7, 2 (June 2017) 211-221); Y. Liu, H. Zhang, X. Xiu, J. Tao and L. Kong, Fused LASSO Penalized Least Absolute Deviation Estimator for High Dimensional Linear Regression; A. Arguchintsev and V. Poplevko, An Optimal Control Problem by Parabolic Equation with Boundary Smooth Control and Integral Constraint;  
A. Tyatyushkin and T. Zarodnyuk, Numerical Method for Solving Optimal Control Problems with Phase Constraints; to be continued.
- K. Akartunali, M. Laumanns and G.-W. Weber, *Special Issue: Making an Impact with Optimization* on the occasion of the 27th European Conference on Operational Research, EURO XXVII, to appear in *Optimization*.

Several special issues are in preparation, namely, of *Optimization*, called *Making*

*an Impact with Optimization* at the occasion of EURO 2015, Glasgow, UK, of *Central European Journal of Operations Research (CEJOR)* at the occasion of EURO 2015, Glasgow, UK, called *Making an Impact with Big Data and Modern OR*, two special issues of *Annals of Operations Research (AOR)*, called *Special Issue "OR in Neuroscience"* and *Special Issue "Advances of OR in Commodities and Financial Modelling"*, two special issues of *OMS (Optimization Methods and Software)* at the occasion of ICCESEN 2015, and ICCESEN 2016, both in Kemer, Antalya, Turkey, two special issues of *it NACO (Numerical Algebra, Control and Optimization)*, namely, at the occasion of ICIE 2016 in Tehran, Iran, and of ICOTA 2016, Ulaanbaatar, Mongolia, a special issue of *Journal of Computational Science* and at the occasion of COMPSE 2016, Penang Island, Malaysia. Finally, I am a guest editor of Turkish Journal of Mathematics, a special issue *Current Research Trends in Operational Research for Better Living* of the *International Journal of Operations Research and Information Systems (IJORIS)* at the occasion of InteriOR 2017, Medan, Indonesia, and a special issue on Optimization and Operational Research in Engineering of the journal *Frontiers of Engineering Management* at the occasion of the Joint Optimization Conferences, Perth, Australia, December 2017.

The book *State-of-the-Art 2017. EUROMSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2017, is in preparation.

### 2.3 Publications in Refereed Journals

- H.Th. Jongen and G.-W. Weber, On parametric nonlinear programming, *Annals of Operations Research* 27 (1990) 253-284.
- H.Th. Jongen and G.-W. Weber, Nonlinear optimization: Characterization of structural stability, *Journal of Global Optimization* 1 (1991) 47-64.
- H.Th. Jongen, F. Twilt and G.-W. Weber, Semi-infinite optimization: Structure and stability of the feasible set, *Journal of Optimization Theory and Applications* 72 (1992) 529-552.
- H.Th. Jongen, J.-J. Rückmann and G.-W. Weber, One-parametric semi-infinite optimization: On the stability of the feasible set, *SIAM Journal of Optimization* 4 (1994) 637-648.
- G.-W. Weber, On the topology of parametric optimal control, *Journal of the Australian Mathematical Society, Series B* 39 (1997) 1-35.
- J.-J. Rückmann and G.-W. Weber, Semi-infinite optimization: Excisional stability of noncompact feasible sets, *Sibirskij Matematicheskij Zhurnal* 39 (1998) 129-145 (in Russian).
- The previous article is also published in English: in *Siberian Mathematical Journal* 39 (1998) 113-125.
- G.-W. Weber, Optimal control theory: On the global structure and connections with optimization, Part 1, *Journal of Computational Technologies* 4, 2

- (1999) 3-25.
- G.-W. Weber, Generalized semi-infinite optimization: On some foundations, *Journal of Computational Technologies* 4, 3 (1999) 41-61.
  - S. Pickl and G.-W. Weber, An algorithmic approach by linear programming problems in generalized semi-infinite optimization, *Journal of Computational Technologies* 5, 3 (2000) 62-82.
  - E. Kropat, S. Pickl, A. Rößler and G.-W. Weber, A new algorithm from semi-infinite optimization for a problem of time-minimal control, *Journal of Computational Technologies* 5, 4 (2000) 67-81.
  - S. Pickl and G.-W. Weber, Optimization of a time-discrete nonlinear dynamical system from a problem of ecology - an analytical and numerical approach, *Journal of Computational Technologies* 6, 1 (2001) 43-52.
  - G.-W. Weber, Structural stability in generalized semi-infinite optimization, *Journal of Computational Technologies* 6, 2 (2001) 25-46.
  - D. Akume and G.-W. Weber, Cluster algorithms: theory and methods, *Journal of Computational Technologies* 7, 1 (2002) 15-27.
  - K. Meer and G.-W. Weber, Some aspects of studying an optimization or decision problem in different computational models, *European Journal of Operational Research* 143, 2 (2002) 406-418.
  - G.-W. Weber, Structural stability in generalized semi-infinite optimization, *Journal of Computational Technologies* 6, 2 (2001) 25-46.
  - E. Kropat, S. Pickl, A. Rößler and G.-W. Weber, On theoretical and practical relations between discrete optimization and nonlinear optimization, in special issue *Colloquy Optimization – Structure and Stability of Dynamical Systems* (at the occasion of the colloquy with the same name, Cologne, October 2000) of *Journal of Computational Technologies* 7, Special Issue (2002) 27-62.
  - S. Pickl and G.-W. Weber, A note on a time-discrete dynamical system and combinatorial-transversal structures, in *Colloquy Optimization – Structure and Stability of Dynamical Systems* (at the occasion of the colloquy with the same name, Cologne, October 2000) of *Journal of Computational Technologies* 7, Special Issue (2002) 78-86.
  - G.-W. Weber, Impulses from results of inverse problems to discrete tomography, in Part 1 of common special issue of *Journal of Computational Technologies* 7 (2002) ...
  - and of *The Bulletin of Kazakh National University* 32, 4 (Mathematics, Mechanics and Informatics Issue; 2002), 175-177, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (September 2002).
  - G.-W. Weber, Generalized semi-infinite optimization: theory and applications in optimal control and discrete optimization, *Journal of Statistics and*

Management Systems 5 (2002) 359-388.

- G.-W. Weber, On the topology of generalized semi-infinite optimization, in: special issue *Optimization* (at the occasion of *French-German-Italian Conference on Optimization* in Montpellier, September 2000) of *Journal of Convex Analysis* 9, 2 (2002) 665-691.
- J. Gebert, S.W. Pickl, N. Shokina, G.-W. Weber and R. Wünschiers, Mathematical modeling and discrete approximation in evaluation and forecasting of expression-data, *Electronic Notes in Discrete Mathematics* 13 (2003).
- D. Akume, B. Luderer and G.-W. Weber, Pricing and hedging of swaptions, *Journal of Computational Technologies* 8, 4 (2003) 5-14.
- D. Akume, B. Luderer and G.-W. Weber, Bewertung und Hedging von Swaptions, *Zeitschrift Wirtschafts-Wissenschaftliches Studium (WiSt)* 12 (December 2003) 635-640.
- J. Gebert, M. Lätsch, E. Ming Poh Quek and G.-W. Weber, Analyzing and optimizing genetic network structure via path-finding, *Journal of Computational Technologies* 9, 3 (2004) 3-12.
- M.U. Akhmet, J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, Algorithmic computational biology: stability analysis of gene-expression patterns, in: part 1 of common special issue of *Journal of Computational Technologies* 9 (2004) ...
- and of *The Bulletin of Kazakh National University* 42, 3 (Mathematics, Mechanics and Informatics Issue; 2004) 10-17, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (October 2004).
- M.U. Akhmet, S.W. Pickl and G.-W. Weber, Multi-stage dynamic games, in: part 1 of common special issue of *Journal of Computational Technologies* 9 (2004) ...
- and of *The Bulletin of Kazakh National University* 42, 3 (Mathematics, Mechanics and Informatics Issue; 2004) 18-21, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (October 2004).
- G.-W. Weber and Ö. Yasar, Discrete tomography: A modern inverse problem reconsidered by optimization, in: part 1 of common special issue of *Journal of Computational Technologies* 9 (2004) ...
- and of *The Bulletin of Kazakh National University* 42, 3 (Mathematics, Mechanics and Informatics Issue; 2004) 115-121, at the occasion of International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan (October 2004).
- Ö. Yasar, C. Diner, A. Dogan, G.-W. Weber, F. Özbudak and A. Tiefenbach, On the applied mathematics of discrete tomography, *Journal of Computatio-*

nal Technologies 9, 5 (2004) 14-32.

- T. Ergenç, S.W. Pickl, N. Radde and G.-W. Weber, Generalized semi-infinite optimization and anticipatory systems, *International Journal of Computing Anticipatory Systems* 15 (2004) 3-30.
- A. Gökmen, S. Kayaligil, G.W. Weber, I. Gökmen, M. Ecevit, A. Sürmeli, T. Bali, Y. Ecevit, H. Gökmen and D.J. DeTombe, Balaban Valley Project: Improving the quality of life in rural area in Turkey, *International Scientific Journal of Methods and Models of Complexity* 7, 1 (2004), [www.fss.uu.nl/ms/cvd/isj/index7-1.htm](http://www.fss.uu.nl/ms/cvd/isj/index7-1.htm).
- T. Ergenç and G.-W. Weber, Modeling and prediction of gene-expression patterns reconsidered with Runge-Kutta discretization, special issue at the occasion of seventieth birthday of Prof. Dr. Karl Roesner, TU Darmstadt, of *Journals of Computational Technologies* 9, 6 (2004) 40-48.
- M.U. Akhmet, J. Gebert, H. Öktem, S.W. Pickl and G.-W. Weber, An improved algorithm for analytical modeling and anticipation of gene expression patterns, *Journal of Computational Technologies* 10, 4 (2005) 3-20.
- M.U. Akhmet, M. Kirane, M.A. Tleubergerova and G.-W. Weber, Control and optimal response problems for quasilinear impulse integrodifferential equations, in the special issue (feature cluster) *Advances in Continuous Optimization* of *European Journal of Operational Research* 169, 3 (2006) 1128-1147.
- J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, An algorithm to analyze stability of gene-expression pattern, special issue *Discrete Mathematics and Data Mining II* of *Discrete Applied Mathematics* 154, 7 guest editors: M. Anthony, E. Boros, P.L. Hammer and A. Kogan (2006) 1140-1156.
- J. Gebert, N. Radde and G.-W. Weber, Modelling gene regulatory networks with piecewise linear differential equations, in the special issue (feature cluster) *Challenges of Continuous Optimization in Theory and Applications* of *European Journal of Operational Research* 181, 3 (2007) 1148-1165.
- G.-W. Weber and A. Tezel, New views: Generalized semi-infinite optimization of genetic networks, TOP, the Operational Research journal of SEIO (Spanish Statistics and Operations Research Society), 14, 1 (June 2006) 48-55.
- B. Karasözen, A. Rubinov and G.-W. Weber, Editorial - Optimization and Data Mining, *European Journal of Operational Research (EJOR)*, 173 (2006) 701-704.
- P. Taylan and G.-W. Weber, New approaches to regression in financial mathematics by additive models, *Journal of Computational Technologies* 12, 2 (2007) 3-22.
- M. Tastan, Ö. Celik, G.-W. Weber, B. Karasözen and F. Korkusuz, Mathematical modeling of proximal femur geometry and bone mineral density, *Joint Diseases and Related Surgery* 17, 3 (2007) 128-136.

- G.-W. Weber and A. Tezel, On generalized semi-infinite optimization of genetic networks, TOP 15, 1 (2007) 65-77.
- Ö. Ugur and G.-W. Weber, Optimization and dynamics of gene-environment networks with intervals, in the special issue in honour of Prof. Dr. Alexander Rubinov of Journal of Industrial and Management Optimization (JIMO) 3, 2 (May 2007) 357-379.
- P. Taylan, G.-W. Weber and A. Beck, New approaches to regression by generalized additive models and continuous optimization for modern applications in finance, science and technology, in the special issue in honour of Prof. Dr. Alexander Rubinov, B. Burachik and X. Yang, guest eds., of Optimization 56, 5-6 (2007) 675-698.
- G.-W. Weber, A. Tezel, P. Taylan, A. Soyler and M. Çetin, Mathematical contributions to dynamics and optimization of gene-environment networks, in Special Issue: In Celebration of Prof. Dr. Dr. Hubertus Th. Jongen's 60th Birthday, D. Pallaschke, O. Stein, guest eds., of Optimization 57, 2 (April 2008) 353-377.
- G.-W. Weber, P. Taylan, B. Akteke-Öztürk and Ö. Ugur, Mathematical and data mining contributions to dynamics and optimization of gene-environment networks, invited paper, in the special issue *Interdisciplinary Applications in Physics: Complexity in Social and Biological Systems* of Electronic Journal of Theoretical Physics (EJTP) 4, 16(II) (2007) 115-146  
<http://www.ejtp.biz/articles/ejtpv4i16IIp115.pdf>.
- P. Taylan and G.-W. Weber, New approaches to regression in financial mathematics and life sciences by generalized additive models, Journal System Research and Information Technologies (National Technical University of Ukraine "Kyiv Polytechnic Institute") 3 (2008) 101-118.
- G.-W. Weber, S.Z. Alparslan-Gök and N. Dikmen, Environmental and life sciences: gene-environment networks - optimization, games and control - a survey on recent achievements, invited paper, in the special issue of Journal of Organisational Transformation and Social Change 5, 3 (2008) 197-233, guest editor: D. DeTombe.
- G.-W. Weber, P. Taylan, Z. Alparslan-Gök, S. Özögür and B. Akteke-Öztürk, Optimization of gene-environment networks in the presence of errors and uncertainty with Chebychev approximation, in TOP, the Operational Research journal of SEIO (Spanish Statistics and Operations Research Society) 16, 2 (2008) 284-318.
- P. Taylan and G.-W. Weber, Organization in finance prepared by stochastic differential equations with additive and nonlinear models and continuous optimization, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 41, 5 (2008) 185-193.
- P. Taylan, G.-W. Weber and E. Kropat, Approximation of stochastic diffe-



- rential equations by additive models using splines and conic programming, *International Journal of Computing Anticipatory Systems* 21 (2008) 341-352, ISSN 1373-5411 (at the occasion of CASYS'07, Eighth International Conference on Computing Anticipatory Systems, Liege, Belgium, August 6-11, 2007), D.M. Dubois (ed.).
- S. Özögür, J. Shawe-Taylor, G.-W. Weber and Z.B. Ögel, Pattern analysis for the prediction of eukaryotic pro-peptide cleavage sites, in the special issue *Networks in Computational Biology* of *Discrete Applied Mathematics* 157, 10 (May 2009) 2388-2394.
  - G.-W. Weber, S.Z. Alparslan-Gök and B. Söyler, A new mathematical approach in environmental and life sciences: gene-environment networks and their dynamics, *Environmental Modeling & Assessment* 14, 2 (April 2009) 267-288.
  - G.-W. Weber, Ö. Uğur, P. Taylan and A. Tezel, On optimization, dynamics and uncertainty: a tutorial for gene-environment networks, in the special issue *Networks in Computational Biology* of *Discrete Applied Mathematics* 157, 10 (May 2009) 2494-2513.
  - Ö. Uğur, S.W. Pickl, G.-W. Weber and R. Wüschiers, An algorithmic approach to analyze genetic networks and biological energy production: an introduction and contribution where OR meets biology, *Optimization* 58, 1 (January 2009) 1-22.
  - G.-W. Weber, E. Kropat, B. Akteke-Öztürk and Z.-K. Görgülü, A survey on OR and mathematical methods applied on gene-environment networks, *Central European Journal of Operations Research (CEJOR)* 17, 3 (September 2009) 315-341; CEJOR special issue at the occasion of EURO XXII 2007 (Prague, Czech Republic, July 8-11, 2007), M. Dlouhy, S. Pickl, M. Rauner and U. Leopold-Wildburger (guest eds.).
  - Z. Barzily, Z. Volkovich, B. Akteke-Öztürk and G.-W. Weber, On a minimal spanning tree approach in the cluster validation problem, in the special issue of *INFORMATICA* 20, 2 (2009) 187-202, at the occasion of 20th Mini-EURO Conference *Continuous Optimization and Knowledge Based Technologies* (Neringa, Lithuania, May 20-23, 2008), G. Dzemyda, K. Miettinen and L. Sakalauskas (guest eds.).
  - G.-W. Weber, S. Özögür-Akyüz and E. Kropat, A review on data mining and continuous optimization applications in computational biology and medicine, in *Embryo Today, Birth Defects Research (Part C)* 87 (2009) 165-181.
  - G.-W. Weber, Editorial - Continuous Optimization in Finance, *Optimization* 58, 3 (2009) 263-265
  - D. Akume and G.-W. Weber, Risk-constrained dynamic portfolio management, in the *Special Issue on Optimization in Finance*, of *DCDIS-B (Dynamics of Continuous, Discrete and Impulsive Systems (Series B))* 17, 1b (2010)

113-129.

- G.-W. Weber, P. Taylan, K. Yıldırak and Z.K. Görgülü, Financial regression and organization, in the Special Issue on Optimization in Finance, of DCDIS-B (Dynamics of Continuous, Discrete and Impulsive Systems (Series B)) 17, 1b (2010) 149-174.
- S. Özögür-Akyüz and G.-W. Weber, Infinite Kernel Learning via infinite and semi-infinite programming, Optimization Methods and Software 25, 6 (2010) 937-970 (in the special issue of OMS at the occasion of International Conference on Engineering Optimization (EngOpt 2008; Rio de Janeiro, Brazil, June 1-5, 2008), J. Herskovits Norman and K. Schittkowski, guest eds.).
- G.-W. Weber, E. Kropat, A. Tezel and S. Belen, Optimization applied on regulatory and eco-finance networks - survey and new developments, Pacific Journal of Optimization 6, 2 (2010) 319-340, special issue in memory of Professor Alexander Rubinov (guest eds.: M. Fukushima, C.T. Kelley, L. Qi, J. Sun and Y. Ye).
- S. Özögür-Akyüz and G.-W. Weber, On numerical optimization theory of infinite kernel learning, JOGO (Journal of Global Optimization) 48, 2 (2010) 215-239.
- I. Ulusoy, E. Akagündüz and G.-W. Weber, Estimation of parameters for dynamic volume spline models, Inverse Problems in Science and Engineering (IPSE) 18, 4 (June 2010) 499-519.
- I. Ulusoy, E. Akagündüz and G.-W. Weber, Inverse solution for parameter estimation of a dynamic volume spline based forehead skin model, Inverse Problems in Science and Engineering (IPSE) 18, 5 (July 2010) 585-612.
- H. Abd. Rahman, A. Bahar, M.K.B.M. Aziz, N. Rosli, M. Salleh and G.-W. Weber, Parameter estimation of stochastic logistic model: Levenberg Marquardt Method, MATEMATIKA UTM (Mathematics Journal of Universiti Teknologi Malaysia), 25, 2 (2009) 91-106.
- C.S. Pedamallu, L. Özdamar, L.S. Ganesh, G.-W. Weber and E. Kropat, A system dynamics model for improving primary education enrollment in a developing country, Organization - Journal of Management, Information Systems and Human Resources (Organizacija) 43, 3 (May-June 2010) 90-101; in the special issue at the occasion of EURO 2009 (Bonn, Germany, July 5-8, 2009).
- Z. Volkovich, G.-W. Weber, R. Avros and O. Yahalom, On an adjacent cluster merit, to appear in the special issue of International Journal of Data Mining, Modelling and Management (IJDMMM) at the occasion of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- P. Taylan, G.-W. Weber and F. Yerlikaya, A new approach to multivariate adaptive regression spline by using Tikhonov regularization and continuous opti-

- mization, TOP (the Operational Research journal of SEIO (Spanish Statistics and Operations Research Society) 18, 2 (December 2010) 377-395; Special Issue on Papers presented at the XXII EURO MC “Continuous Optimization and Knowledge-Based Decisions” (Neringa, Lithuania, May 20-23, 2008), M. Dür, M.A. Lopez-Cerda and L. Sakalauskas (guest eds.).
- V. Strijov and G.-W. Weber, Nonlinear regression model generation using hyperparameters optimization, Computers and Mathematics with Applications (CAMWA) 60 (2010) 981-988, in the special issue of at the occasion of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
  - P. Taylan, G.-W. Weber, L. Liu and F. Yerlikaya, On foundations of parameter estimation for generalized partial linear models with B-splines and continuous optimization, Computers and Mathematics with Applications (CAMWA) 60, 1 (2010) 134-143, in the special issue at the occasion of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
  - E. Kropat, G.-W. Weber and J.-J. Rückmann, Regression analysis for clusters in gene-environment networks based on ellipsoidal calculus and optimization, Dynamics of Continuous, Discrete and Impulsive Systems Series B, 17, 5 (October 2010) 639-657; in the special issue in honour of Professor Alexander Rubinov.
  - T. Paksoy, E. Özceylan and G.-W. Weber, A multi-objective mixed integer programming model for multi echelon supply chain network design and optimization, Journal System Research and Information Technologies, issue 4 in 2010 (December 2010) (by National Technical University of Ukraine “Kyiv Polytechnic Institute”) 47-57.
  - S. Belen, E. Kropat and G.-W. Weber, On the classical Maki-Thompson rumour model in continuous time, in CEJOR (Central European Journal of Operations Research) 19, 1 (2011) 1-17.
  - G.-W. Weber, Ö. Defterli, S.Z. Alparslan Gök and E. Kropat, Modeling, inference and optimization of regulatory networks based on time series data, invited review, European Journal of Operational Research (EJOR) 211, 1 (2011) 1-14.
  - Ö. Sezgin Alp, E. Büyükbeci, A. Iscanoglu Cekic, F. Yerlikaya Özkurt, P. Taylan and G.-W. Weber, - CMARS and GAM & CQP - modern optimization methods applied to international credit default prediction, Journal of Computational and Applied Mathematics (JCAM) 235 (2011) 4639–4651; in Special Issue *ICCAM2009-Advances on Computational and Applied Mathematics* at the Occasion of the ICCAM2009 - 14th International Congress on Computational and Applied Mathematics, Antalya, Turkey, September 29 - October 2, 2009.
  - Z. Volkovich, Z. Barzily, G.-W. Weber, D. Toledano-Kitai and R. Avros,

- Resampling approach for cluster model selection, *Machine Learning* 85, 1-2 (October 2011) 209-248, in the special issue at the occasion of EURO 2009 (Bonn, Germany, July 5-8, 2009), S. Özögür-Akyöz, D. Ünay and A. Smola (guest editors).
- G.-W. Weber, International Conference on Operations Research, Mastering Complexity, (Germany, Munich, 01-03 September 2010), International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems” (ISSN 1727-687X) 16, n.2 (34) (2010) 135-137 (edited in Kazan State University).
  - A Russian version of the previous paper appeared in the same journal and same issue at the pages 138-140.
  - E. Kropat, Z. Volkovich and G.-W. Weber, EURO XXIV — Stochastic Modeling and Simulation — Stream of European Conference on Operational Research (July 11-14, 2010, Lisbon, Portugal), International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems” (ISSN 1727-687X) 17, n.1 (35) (2011) 137-143 (edited in Kazan State University).
  - A Russian version of the previous paper appeared in the same journal and same issue at the pages 144-151.
  - Ö. Defterli, A. Fügenschuh and G.-W. Weber, Modern tools for the time-discrete dynamics and optimization of gene-environment networks, *Communications in Nonlinear Science and Numerical Simulation (CNSNS)* 16, 12 (2011) 4768 - 4779; in Special Issue *Nonlinear, Fractional and Complex Systems with Discontinuity and Chaos*, D. Baleanu and J.A. Tenreiro Machado (guest editors).
  - A. Özmen, G.-W. Weber, I. Batmaz and E. Kropat, RCMARS: Robustification of CMARS with different scenarios under polyhedral uncertainty set, *Communications in Nonlinear Science and Numerical Simulation (CNSNS)* 16, 12 (2011) 4780-4787; in Special Issue *Nonlinear, Fractional and Complex Systems with Discontinuity and Chaos*, D. Baleanu and J.A. Tenreiro Machado (guest editors).
  - T. Paksoy, E. Özceylan and G.-W. Weber, A multi objective model for optimization of a green supply chain network, *Global Journal of Technology & Optimization* 2, 1 (June 2011) 84-95, ISSN 2229-8711; in: *Transaction on Evolutionary Algorithm and Continuous Optimization*.
  - G. Summers, F. Summers, S.T. Elias-Ozkan and G.-W. Weber, The Kerkenes Eco-Center Project, International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems” (ISSN 1727-687X) n.2 (36), v.17, 2011, 156-158.
  - G. Summers, F. Summers, S.T. Elias-Ozkan and G.-W. Weber, The Kerkenes Eco-Center Project, International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems” (ISSN 1727-687X) n.2 (36), v.17, 2011, 159-161 (in Russian).

- G.-W. Weber and E. Kropat, Preface, *Optimization* 60, 10-11 (October—December 2011) 1233.
- G.-W. Weber, I. Batmaz, G. Köksal, P. Taylan and F. Yerlikaya-Özkurt, CMARS: A new contribution to nonparametric regression with multivariate adaptive regression splines supported by continuous optimisation, *Inverse Problems in Science and Engineering (IPSE)* 20, 3 (April 2012) 371–400.
- G. Üstüinkar, S. Özögür-Akyüz, G.-W. Weber, Y. Aydin Son and C.M. Friedrich, Selection of representative SNP sets for genome-wide association studies: a metaheuristic approach, *Optimization Letters* 6, 6 (2012) 1207–1218; special issue at the occasion of YAEM 2010, 30th Annual Congress of the OR Society in Turkey (Istanbul, Turkey, June 30 - July 2, 2010), G. Ulusoy and G. Sahin, guest editors.
- Z. Volkovich, Z. Barzily, G.-W. Weber, D. Toledano-Kitai and R. Avros, An application of the minimal spanning tree approach to the cluster stability problem, *CEJOR (Central European Journal of Operations Research)* 20, 1 (March 2012) 119-139.
- Z. Volkovich, G.-W. Weber, R. Avros and O. Yahalom, On an adjacency cluster merit approach, *Int. J. Operational Research* 13, 3 (2012) 239-255.
- O.T. Altinöz, A.E. Yilmaz and G.-W. Weber, Application of chaos embedded particle swarm optimization for PID parameter tuning, *International Journal of Computers, Communications & Control (IJCCC)* 7, 2 (2012) 204-218.
- G.-W. Weber, Z. Cavusoglu and A. Özmen, Predicting default probabilities in emerging markets by new conic generalized partial linear models and their optimization, *Optimization* 61, 4 (2012) 443-457, in the Special Issue on *Continuous Optimization in the Financial Sector* (at the occasion of Mini EURO Conference “Continuous Optimization and Information-Based Technologies in the Financial Sector” (EurOPT-2010), June 23-26, 2010, Izmir, Turkey).
- E. Kürüm, K. Yildirak and G.-W. Weber, A classification problem of credit risk rating investigated and solved by optimization of the ROC curve, *CEJOR* 20, 3 (2012) 529-557; in the special issue at the occasion of EURO XXIV 2010 in Lisbon.
- C.S. Pedomallu, L. Özdamar, E. Kropat and G.-W. Weber, A system dynamics model for intentional transmission of HIV/AIDS using cross impact analysis, *CEJOR* 20, 2 (2012) 319-336.
- C.S. Pedomallu, L. Özdamar, H. Akar, G.-W. Weber and A. Özsoy, Investigating academic performance of migrant students: a system dynamics perspective with an application to Turkey, *International Journal of Production Economics* 139, 2 (2012) 422-430; the special issue on Models for Compassionate Operations, J. Sarkis, guest editor.
- A. Özmen, G.-W. Weber and E. Kropat, Robustification of conic generalized partial Linear models under polyhedral uncertainty, *International IFNA-ANS*

- scientific Journal “Problems of Nonlinear Analysis in Engineering Systems”, No2(38), v.18, (2012) 104-113.
- A. Özmen, G.-W. Weber and E. Kropat, Robustification of conic generalized partial Linear models under polyhedral uncertainty, International IFNA-ANS scientific Journal “Problems of Nonlinear Analysis in Engineering Systems”, No2(38), v.18, 2012, 114-124 (in Russian).
  - A. Vasin, P. Kartunova and G.-W. Weber, Models for capacity and electricity market design, CEJOR 21, 3 (2013) 651-661.
  - Z. Volkovich, D. Toledano-Kitai and G.-W. Weber, Self-learning K-means clustering: a global optimization approach, Journal of Global Optimization 56, 2 (June 2013) 219-232, in the special issue *Global Optimization and Applications* at the occasion of 24th Mini EURO Conference MEC EUROPT 2010 on Continuous Optimization and Information-Based Technologies in the Financial Sector, June 23-26, 2010, Izmir University of Economics, Izmir, Turkey.
  - A. Özmen, G.-W. Weber, Z. Cavusoglu and Ö. Defterli, The new Robust Conic GPLM method with an application to finance: Prediction of Credit Default, Journal of Global Optimization 56, 2 (June 2013) 233-249, in the special issue *Global Optimization and Applications* at the occasion of 24th Mini EURO Conference MEC EUROPT 2010 on Continuous Optimization and Information-Based Technologies in the Financial Sector, June 23-26, 2010, Izmir University of Economics, Izmir, Turkey.
  - F.A. Crespo, C.S. Pedomallu, L. Özdamar and G.-W. Weber, EWG ORD: An experience as virtual organization, achievement and challenges, Organizacija 45, 5 (September-October 2012) 228-235, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) in the special issue *Advances in Systems, Decision Making, Collaborative Work and Learning*, at the occasion of InterSymp’2011 (Baden-Baden, Germany, 2011).
  - T. Paksoy, E. Özceylan and G.-W. Weber, Profit oriented supply chain network optimization, CEJOR 21, 2 (2013) 455-478.
  - A. Özmen, G.-W. Weber and A. Karimov, A new robust optimization tool applied on financial data, Pacific Journal of Optimization 9, 3 (July 2013) 535-552.
  - D. Toledano-Kitai, R. Avros, Z. Volkovich, G.-W. Weber and O. Yahalom, A binomial noised model for cluster validation, Journal of Intelligent & Fuzzy Systems, 24, 3 (2013) 417-427; in the special issue *Recent Advances in Intelligent & Fuzzy Systems*, L. Jain, editor.
  - O.T. Altinoz, A.E. Yilmaz and G.-W. Weber, Orthogonal array based performance improvement in the gravitational search algorithm, Turkish Journal of Electrical Engineering & Computer Sciences 21 (2013) 174-185.
  - G.-W. Weber and F. Solatikia, Generalization by optimization in Menger probabilistic norm spaces with application on portfolio in insurance, Jour-

- nal of Applied & Computational Mathematics 2:3 (2013) 1000e131 (editorial article).
- V. Strijov, K. Krymova and G.-W. Weber, Evidence optimization for consequently generated models, *Mathematical and Computer Modelling (MCM)* 57, 1 (January 2013) 50-56 (in the Special Issue: Selected paper of PCO 2010 Borneo for MACM, at the occasion of PCO 2010, Sarawak, Borneo, Malaysia, ISSN 0895-7177).
  - S. Martello, G.-W. Weber and R. Kasimbeyli, An overview of advances in combinatorial optimization and related topics, *Optimization* 62, 10 (2013) 1291-1295.
  - S.Z. Alparslan Gök and G.-W. Weber, On dominance core and stable sets for cooperative ellipsoidal games, *Optimization* 62, 10 (2013) 1297–1308, in the special issue *Advances in Combinatorial Optimization and Related Topics*, at the occasion of ECCO 2012, 25th Conference of European Chapter on Combinatorial Optimization, Antalya, Turkey, April 26-28, 2012.
  - A.D. Sezer and G.-W. Weber, Editorial - Optimization Methods in Mathematical Finance, *Optimization* 62, 11 (2013) 1399–1402.
  - M.H. (Aslan) Yildirim and G.-W. Weber, Schäfer, Stefan. 2012. *Global Optimization: A Stochastic Approach*. Springer, 164 pp. \$99.00, 44, 1 (January-February 2014) 116-117.
  - A. Motrenko, V. Strijov and G.-W. Weber, Sample size estimation for logistic regression, *Journal of Computational and Applied Mathematics* 255 (January 2014) 743-752.
  - A. Özmen, E. Kropat and G.-W. Weber, Spline regression models for complex multi-modal regulatory networks, *OMS (Optimization Methods and Software)* 29, 3 (2014) 515-534.
  - P. Taylan, F. Yerlikaya Özkurt and G.-W. Weber, An approach to mean shift outlier model (MSOM) by Tikhonov regularization and conic programming, *Intelligent Data Analysis* 18, 1 (2014) 79–94.
  - F. Yerlikaya-Özkurt, C. Vardar-Acar, Y. Yolcu-Okur and G.-W. Weber, Estimation of Hurst parameter of fractional Brownian motion using CMARS method, *Journal of Computational and Applied Mathematics (JCAM)* 259 (2014) 843-850, in special issue at the occasion of ICACM - International Conference on Applied and Computational Mathematics Ankara, Turkey, October 3-6, 2012.
  - A. Özmen and G.-W. Weber, RMARS: Robustification of Multivariate Adaptive Regression Spline under Polyhedral Uncertainty, *Journal of Computational and Applied Mathematics (JCAM)* 259 (2014) 914-924, in special issue at the occasion of ICACM - International Conference on Applied and Computational Mathematics Ankara, Turkey, October 3-6, 2012.
  - B.Z. Temocin and G.-W. Weber, Optimal control of stochastic hybrid sy-

- stem with jumps: a numerical approximation, *Journal of Computational and Applied Mathematics (JCAM)* 259 (2014) 443-451, special issue at the occasion of ICACM - International Conference on Applied and Computational Mathematics, Ankara, Turkey, October 3-6, 2012.
- E. Akyildiz, Ö.L. Gebizlioglu, B. Karasözen, Ö. Ugur and G.W. Weber (guest editors), Selected Papers on Applied and Computational Mathematics - On the occasion of 10th anniversary of the foundation of Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, editorial, *Journal of Computational and Applied Mathematics (JCAM)* 259 (2014) 327-328.
  - E.V. Ravve, Z. Volkovich and G.-W. Weber, Effective optimization with weighted automata on decomposable trees, *Optimization* 63, 1 (2014) 109127; in the *Special Issue on Recent Advances in Continuous Optimization on the Occasion of the 25th European Conference on Operational Research (EURO XXV 2012)*, Vilnius, Lithuania.
  - G.-W. Weber, A. Kruger, J.E. Martinez-Legaz, B. Mordukhovich and L. Sakalauskas (guest editors), *Editorial of the Special Issue on Recent Advances in Continuous Optimization on the Occasion of the 25th European Conference on Operational Research (EURO XXV 2012)*, *Optimization* 63, 1 (2014) 1-5.
  - N. Azevedo, D. Pinheiro and G.-W. Weber, Dynamic programming for a Markovswitching jump-diffusion, *Journal of Computational and Applied Mathematics* 267 (2014) 119.
  - M. Bogdan, C.-A. Comes, D. Stefan and G.-W. Weber, Editorial of the *Special Issue on Financial Optimization, Optimization in Finance - OPTFIN 2012 Workshop*, *Optimization* 63, 12 (2014) 1781-1783.
  - M. Ghoreishi, A. Mirzazadeh and G.-W. Weber, Optimal pricing and ordering policy for non-instantaneous deteriorating items under inflation and customer returns, *Optimization* 63, 12 (2014) 1785-1804, in the *Special Issue on Financial Optimization - OPTFIN 2012*.
  - E. Kalayci, E. Gaygisiz and G.-W. Weber, A multi-period stochastic portfolio optimization model applied for an airline company in the EU ETS, *Optimization* 63, 12 (2014) 1817-1835, in the *Special Issue on Financial Optimization - OPTFIN 2012*.
  - A. Özmen, I. Batmaz and G.-W. Weber, Precipitation Modeling by Polyhedral RCMARS and Comparison with MARS and CMARS, *Environmental Modelling and Assessment* 19, 82 (October 2014) 425-435.
  - E. Kilic, S.S. Ali, G.-W. Weber and R. Dubey, A value-adding approach to reliability under preventive maintenance costs and its applications, *Optimization* 63, 12 (2014) 1805-1816, in the *Special Issue on Financial Optimization - OPTFIN 2012*.
  - Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Linear Inverse Elec-



- trocardiography Problem by Minimum Relative Entropy Method, International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems”, No. 1(41), vol. 20 (2014) 64-70 (in English). ...
- ... and in International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems”, No. 1(41), vol. 20 (2014) 71-78 (in Russian).
  - O. Nazarenko, K. Pereverza, A. Pasichny, D. Fishman and G.-W. Weber, Initiatives for OR Education (Section at EURO-INFORMS Conference - 2013), International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems”, No. 1(41), vol. 20 (2014) 130-135 (in English). ...
  - ... and in International IFNA-ANS Journal “Problems of Nonlinear Analysis in Engineering Systems”, No.1(41), vol. 20 (2014) 136-142 (in Russian).
  - F. Solatikia, E. Kilic and G.-W. Weber, Fuzzy Optimization for Portfolio Decision Making Based on Embedding Theorem in Menger Probabilistic Normed Spaces, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 47, 2 (2014) 90-97, in the special issue *Recent Advances in Systems, Decision Making, Business Intelligence and Learning* (2014).
  - M. Kljajic and G.-W. Weber, Preface, Organizacija (Organization - Journal of Management, Information Systems and Human Resources) 47, 2 (2014) 79-80, in the special issue *Recent Advances in Systems, Decision Making, Business Intelligence and Learning* (2014).
  - O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Cooperative games under bubbly uncertainty, Mathematical Methods of Operations Research (MMOR) 80, 2 (October 2014) 129137.
  - E. Kartal Koc, C. Iyigun, I. Batmaz and G.-W. Weber, Efficient adaptive regression spline algorithms based on mapping approach with a case study on finance, JOGO (Journal of Global Optimization) 60 (2014) 103120, in *Special Issue on OR - Connecting Sciences Supported by Global Optimization* at the occasion of EURO XXV, Vilnius, Lithuania, July 8-11, 2012.
  - A. Bagirov, K. Miettinen and G.-W. Weber, *Preface of the Special Issue OR - Connecting Sciences Supported by Global Optimization related to the 25th European Conference on Operational Research (EURO XXV 2012)*, Journal of Global Optimization (JOGO) 60 (August 2014) 13.
  - G.-W. Weber, J. Blazewicz, M. Rauner and M. Türkay, Editorial - Recent advances in computational biology, bioinformatics, medicine, and healthcare by modern OR, CEJOR 22, 3 (September 2014) 477-480.
  - F. Yerlikaya-Özkurt, A. Askan and G.W. Weber, An alternative approach to ground motion prediction problem by a non-parametric adaptive regression method, Engineering Optimization 46, 12 (September 2014) 1651-1668.
  - O. Palanci, S.Z. Alparslan Gök, S. Ergün and G.-W. Weber, Cooperative grey games and the grey Shapley value, Optimization 64, 8 (June 2015) 1657-

- 1668, in the special issue at the occasion of 40th Anniversary of the Journal Optimization.
- O.T. Altinöz, A.E. Yilmaz and G.-W. Weber, Improvement of the Gravitational Search Algorithm by means of Low-Discrepancy Sobol Quasi Random-Number Sequence Based Initialization, *Advances in Electrical and Computer Engineering* 14, 3 (November 2014) 55-62.
  - S. Kuter, G.-W. Weber, Z. Akyürek and A. Özmen, Inversion of top of atmospheric reflectance values by conic multivariate adaptive regression splines, *Inverse Problems in Science and Engineering (IPSE)* 23, 4 (February 2015) 651-669.
  - M. Ghoreishi, G.-W. Weber and A. Mirzazadeh, An Inventory Model for Non-instantaneous Deteriorating Items with Partial Backlogging, Permissible Delay in Payments, Inflation- and Selling Price-Dependent, *Annals of Operations Research (ANOR)* 226,1 (March 2015) 221-238.
  - P. Vasant, G.-W. Weber, N. Barsoum and V.N. Dieu, Editorial of the Special Issue on Power, Control and Optimization in The Scientific World Journal: Computer Science, *Scientific World Journal*, Volume 2015 (February 2015), Article ID 964581, 2 pages; <http://dx.doi.org/10.1155/2015/964581>.
  - M.H. Zavvar Sabegh, A. Mirzazadeh, S. Salehiana and G.W. Weber, A Literature Review on the Fuzzy Control Chart; Classifications & Analysis, *International Journal of Supply and Operations Management (IJSOM)* 1, 2 (August 2014) 167-189.
  - D. DeTombe and G.-W. Weber, An Emerging Field in Operational Research: Methodology of Societal Complexity - with a Note on Operational Research and Development, *International IFNA-ANS Journal "Problems of Nonlinear Analysis in Engineering Systems"* No.1(43), vol.21 (2015) 36-48 (in English)
  - ... and No.1(43), vol.21 (2015) 49-62 (in Russian).
  - M. Ghoreishi, A. Mirzazadeh, G.-W. Weber and I. Nahkhai-Kamalabadi, Joint Pricing and Replenishment Decisions for Non-Instantaneous Deteriorating Items with Partial Backlogging, Inflation- and Selling Price-Dependent Demand and Customer Returns, *Journal of Industrial and Management Optimization* 11, 3 (July 2015) 933-949.
  - T. Tchemisova, A. Freitas, A. Plakhov and G.-W. Weber, Editorial - Special Issue: Optimization in the Natural Sciences, *Optimization* 64, 6 (March 2015) 1363-1365.
  - P. Vasant, G.-W. Weber and V.N. Dieu, Classical and Hybrid Optimization Approaches and Their Applications in Engineering and Economics, Editorial of Special Issue in Mathematical Problems in Engineering, in *Mathematical Problems in Engineering*, Volume 2015 (2015), Article ID 917093, pages 1-2; <http://www.hindawi.com/journals/mpe/2015/917093/>.
  - G.-W. Weber and A.S. Selcuk Kestel, Special Issue Part 2 on the Occasion of

- International Renewable Energy Congress 2014 (IREC 2014), Guest Editorial Preface, *International Journal of Energy Optimization and Engineering* 4(4) (October-December 2015) vi-vii.
- V. Strijov, G.-W. Weber, R. Weber and S. Özögür Akyüz, Editorial of the special issue data analysis and intelligent optimization with applications, *Machine Learning* 101, 1 (October 2015) 1-4.
  - M. Kljajic and G.-W. Weber, Preface, in: Recent Advances in Simulation based decision making in business process, special issue in *Organizacija (Organization - Journal of Management, Information Systems and Human Resources)* 48, 3 (2015) 143-144.
  - G.-W. Weber and A.S. Selcuk Kestel, Special Issue Part 1 on the Occasion of International Renewable Energy Congress 2014 (IREC 2014), Guest Editorial Preface, *International Journal of Energy Optimization and Engineering*, 4(3) (July-September 2015) vi-vii.
  - E. Kropat, S. Meyer-Nieberg and G.-W. Weber, Two-Scale Asymptotic Analysis of Singularly Perturbed Elliptic Differential Equations on Large Periodic Networks, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B: Applications & Algorithms* 22, 4 (October 2015) 293-324.
  - L. Lotero, E. del Rosario and G.-W. Weber, EURO 2015: Showcase of the Continuing Relevance of OR, *International IFNA-ANS Journal "Problems of Nonlinear Analysis in Engineering Systems"*, No 2(44), vol. 21 (2015) 182-185 (in English). ...
  - ... and in *International IFNA-ANS Journal "Problems of Nonlinear Analysis in Engineering Systems"*, No 2(44), vol. 21 (2015) 186-189 (in Russian).
  - F. Yilmaz, H. Öz, G.W. Weber, Simulation of Stochastic Optimal Control Problems with Symplectic Partitioned Runge-Kutta Scheme, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B*, 22, 6 (December 2015) 425-440.
  - E. Kropat, A. Özmen, G.-W. Weber, S. Meyer-Nieberg and Ö. Defterli, Fuzzy Prediction Strategies for Gene-Environment Networks Fuzzy Regression Analysis for Two-Modal Regulatory Systems, *RAIRO Operations Research* 50, 2 (2016) 413-435, in the Special Issue at the occasion of CBBM 2014, Poznan - Biedrusko, Poland, June 26-28, 2014; DOI: <http://dx.doi.org/10.1051/ro/2015044>.
  - Y. Yilmaz, G.-W. Weber and P. Vasant, Energy Modeling and Computations in the Building Envelope, *International Journal of Energy Optimization and Engineering (IJEQE)* 5(2) (April-June 2016) 84-86 (book review).
  - O. Palanci, M.O. Olgun, S.Z. Alparslan Gök and G.-W. Weber, Transportation interval situations and related games, *OR Spectrum* 38(1) (2016) 119-136, in the Special Issue on "Collaborative Planning in Transportation".
  - V. Kirzhner, E.V. Ravve, Z. Volkovich and G.-W. Weber, An estimate of the

- target function optimum for the network Steiner problem, *Annals of Operations Research* 238, 1 (2016) 315-328.
- E.V. Ravve, Z. Volkovich and G.-W. Weber, Optimal default parameters for quasi periodic data processing based on multi-criteria optimization, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B* 23, 2 (March 2016) 91-112.
  - S. Özögür Akyüz, G. Üstünkar and G.-W. Weber, Adapted Infinite Kernel Learning by Multi-Local Algorithm, *International Journal of Pattern Recognition and Artificial Intelligence* 30, 4, 1651004 (May 2016) 21 pages; DOI: 10.1142/S0218001416510046.
  - U. Reisach, D. deTombe and G.-W. Weber, Editorial, *Central European Journal of Operations Research (CEJOR)* 27:4 (December 2016) 797-799 (on the special issue *International Aspects of OR* at the occasion of IFORS 2014, Barcelona, Spain).
  - E. Kropat and S. Meyer-Nieberg and G.-W. Weber, A Topology Optimization Approach for Micro-Architected Systems on Singularly Perturbed One-dimensional Manifolds - The Influence of the Network Topology, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B: Applications & Algorithms* 23, 4 (2016) 155-193.
  - F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, A Hybrid Computational Method Based on Convex Optimization for Outlier Problems: Application to Earthquake Ground Motion Prediction, *INFORMATICA*, 2016, Vol. 27, No. 4, 893910.
  - S.Z. Alparslan-Gök and G.-W. Weber, Foreword, *Optimization Methods and Software (OMS)* 31:3 (April 2016) 445, DOI:10.1080/10556788.2016.1175692 or <http://www.tandfonline.com/doi/full/10.1080/10556788.2016.1175692>; in the Special Issue on “Advances of Optimization in Science and Application at the Occasion of the International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014).
  - F. Wenstop, C. Miralles and G.-W. Weber, Featured Papers on Operational Research and Ethics, a preface, *EURO Journal on Decision Processes (EJDP)* 4:1-2 (June 2016) 1-3.
  - E. Kropat, S. Meyer-Nieberg and G.-W. Weber, Singularly Perturbed Diffusion-Advection-Reaction Processes on Extremely Large Three-Dimensional Curvilinear Networks with a Periodic Microstructure - Efficient Solution Strategies Based on Homogenization Theory, *Numerical Algebra, Control and Optimization (NACO)* 6, 2 (June 2016) 183219 (in the Special Issue at the occasion of InteriOR 2015, Medan, Indonesia, August 21-23, 2015).
  - S.K. Roy, G. Maity, G.W. Weber and S.Z. Alparslan Gök, Conic Scalarization Approach to Solve Multi-choice Multi-objective Transportation Problem with Interval Goal, *Annals of Operations Research (ANOR)* 253, 1 (2017) 599-620.

- A. Vasin, M. Dolmatova and G.-W. Weber, Supply function equilibria for uniform price auction in oligopolistic markets, *Central European Journal of Operations Research (CEJOR)* 27:4 (December 2016) 819-831; in the *Special Issue on International Aspects of OR* at the occasion of IFORS 2014.
- O.T. Altinoz, A.E. Yilmaz and G.-W. Weber, Optimization of First Generation Crone Approximated Fractional-order PID Controller by Using Charged System Search, *International Journal of Intelligent Systems Technologies and Applications* 16(2) (2017) 127139.
- F. Gharbalchi, Y. Serinagaoglu Dogrusöz and G. W. Weber, Lanczos Bidiagonalization - Based Inverse Solution Methods Applied to Electrical Imaging of the Heart by Using Reduced Lead-Sets, *Cogent Mathematics* (2016), 3: 1256461; <http://dx.doi.org/10.1080/23311835.2016.1256461>; in the small sample issue (at the occasion of 3rd International Seminar on Operational Research (InteriOR 2015), Medan, Indonesia).
- L. Lotero, S.S. Ali, E. del Rosario and G.-W. Weber, Advances in operational research for development, *Int. J. "Problems of Nonlinear Analysis in Engineering Systems"*, no.2(46), v.22, pp. 197-200 (in English);
- ... and pp. 201-205 (in Russian).
- A. Yildizbasi, A. Calik, T. Paksoy, R. Zanjirani Farahanic and G.-W. Weber, Multilevel Optimization of an Automotive Closed-Loop Supply Chain Network with Interactive Fuzzy Programming Approaches, to appear in *Technological and Economic Development of Economy*.
- S. Kuter, G.-W. Weber and Z. Akyürek, A Progressive Approach for Processing Satellite Data by Operational Research, *Operational Research: An International Journal (ORIJ)*, *Operational Research*, 17(2) (2017) 371-393.
- M. Pervin, S.K. Roy and G.-W. Weber, A two-echelon inventory model with stock-dependent demand and variable holding cost for deteriorating items, *Numerical Algebra, Control and Optimization (NACO)* 7, 1 (March 2017) 21-50.
- S.K. Roy, G. Maity and G.W. Weber, Multi-Objective Two-Stage Grey Transportation Problem Using Utility Function with Goals, *CEJOR* 25, 2 (2017) 417-439.
- E. Kropat, S. Meyer-Nieberg and G.-W. Weber, A Comparison of Two Homogenization Principles for Target-Environment Networks and Systems on Periodic Graphs, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B (DCDIS-B)* 24 (April 2017) 207-234.
- S. Kannan, S.S. Ali, O. Nazarenko and G.-W. Weber, Stochastic processing time modelling in manufacturing, *Pure and Applied Functional Analysis* 2, 2 (2017) 285-304, in the special issue dedicated to Professor Alexander Rubinov, to commemorate the 75th anniversary of his birthday.
- T. Akal, V. Purutcuoglu and G.-W. Weber, Robust Background Normalizati-

- on Method for One-Channel Microarrays with a New Index, Turkish Journal of Biochemistry, Volume 42, Issue 2 (April 2017) 111-122.
- E. Kropat, S. Meyer-Nieberg and G.-W. Weber, Bridging the Gap Between Variational Homogenization Results and Two-Scale Asymptotic Averaging Techniques on Periodic Network Structures - On a Rigorous Derivation of Non-Variational Macroscopic Models, Numerical Algebra, Control and Optimization (NACO) 7, 3 (September 2017) 223-250.
  - E. Kropat, S. Meyer-Nieberg and G.-W. Weber, Computational Networks and Systems - Homogenization of Self-Adjoint Differential Operators in Variational Form on Periodic Networks and Micro-Architected Systems, Numerical Algebra, Control and Optimization (NACO) 7, 2 (June 2017) 139-169.
  - B. Akteke Öztürk, G. Köksal and G.-W. Weber, Nonconvex Optimization of Desirability Functions, to appear in Quality Engineering; <http://dx.doi.org/10.1080/08982112.2017.1315136>.
  - E. Kürüm, G.-W. Weber and C. Iyigün, Early Warning on Stock Market Bubbles via Methods of Optimization, Clustering and Inverse Problems, to appear in Annals of Operations Research, Special Volume *Advances of OR in Commodities and Financial Modelling*; DOI 10.1007/s10479-017-2496-1.
  - S. Ergün, S.Z. Alparslan Gök, B.B. Kirlar and G.-W. Weber, A Game-Theoretical and Cryptographical Approach to Crypto-Cloud Computing and Its Economical and Financial Aspects, to appear in Annals of Operations Research, Special Volume *Advances of OR in Commodities and Financial Modelling*; DOI: 10.1007/s10479-016-2139-y.
  - M. Pervin, S.K. Roy and G.-W. Weber, Analysis of inventory control model with shortage under time-dependent demand and time-varying holding cost including stochastic deterioration, to appear in Annals of Operations Research, Special Volume *Advances of OR in Commodities and Financial Modelling*; DOI: 10.1007/s10479-016-2355-5.
  - S. Nodoust, A. Mirzazadeh and G.-W. Weber, An evidential reasoning approach for production modeling with deteriorating and ameliorating items, to appear in International Operational Research: An International Journal (ORIJ); DOI 10.1007/s12351-017-0313-x.
  - A. Cevik, G.-W. Weber, B.M. Eyüboğlu, K. Karlıoğlu and The Alzheimer's Disease Neuroimaging Initiative, Voxel-MARS: A Method for Early Detection of Alzheimers Disease by Classification of Structural Brain MRI, to appear in Annals of Operations Research (ANOR), Special Issue "Operations Research in Neuroscience"; DOI: 10.1007/s10479-017-2405-7.
  - E. Kropat, R.A. Tikidji-Hamburyan and G.-W. Weber, Editorial, Annals of Operations Research Special Volume *Operations Research in Neuroscience*, to appear in Annals of Operations Research (ANOR); DOI 10.1007/s10479-017-2633-x.

- A. Özmen, E. Kropat and G.-W. Weber, Robust optimization in spline-regression models for multi-model regulatory networks under polyhedral uncertainty, to appear in *Optimization*, in the *Special Issue: Making an Impact with Optimization* on the occasion of EURO 2015, Glasgow, UK; <http://www.tandfonline.com/doi/full/10.1080/02331934.2016.1209672>.
- A. Vasin, H. Gao, M. Dolmatova and G.-W. Weber, Optimization of Transmission Network for Homogeneous Good Market, to appear in *Optimization*, in the *Special Issue: Making an Impact with Optimization* on the occasion of the 27th European Conference on Operational Research, EURO XXVII; DOI: 10.1080/02331934.2016.1247269.
- B. Akteke Öztürk, G.-W. Weber and G. Köksal, Effects of Uncertainty Phenomena to Desirability Functions' Optimization, to appear in *Optimization*, the *Special Issue: Making an Impact with Optimization* on the occasion of the 27th European Conference on Operational Research, EURO XXVII; DOI: 10.1080/02331934.2017.1371167.
- K. Akartunali, M. Laumanns and G.-W. Weber, Editorial — Special Issue: Making an Impact with Optimization, to appear in *Optimization*, the *Special Issue: Making an Impact with Optimization* on the occasion of the 27th European Conference on Operational Research, EURO XXVII.
- H. Öz, F. Yilmaz and G.-W. Weber, A discrete optimality system for an optimal harvesting problem, to appear in *Computational Management Science*.
- E. Savku and G.-W. Weber, A stochastic maximum principle for a Markov regime-switching jump-diffusion model with delay and an application to finance, to appear in *JOTA (Journal of Optimization Theory and Applications)*; <https://link.springer.com/article/10.1007/s10957-017-1159-3>.
- Ö.N. Onak, Y. Serinagaoglu and G.-W. Weber, Effects of A Priori Parameter Selection in Minimum Relative Entropy Method on the Inverse Electrocardiography Problem Solutions, to appear in *Inverse Problems in Science and Engineering (IPSE)*. <http://dx.doi.org/10.1080/17415977.2017.1369979>.

#### 2.4 Publications in Refereed Books

- H.Th. Jongen and G.-W. Weber, Nonconvex optimization and its structural frontiers, in: *Modern Methods of Optimization*, eds.: W. Krabs and J. Zowe, Lecture Notes in Economics and Mathematical Systems 378 (1992) 151-203.
- G.-W. Weber, Generalized semi-infinite optimization: theory and applications in optimal control and discrete optimization, in: *Optimality Conditions, Generalized Convexity and Duality in Vector Optimization*, guest eds.: A. Cambini, B.K. Dass and L. Martein, Taru Publications and Academic Forum, New Dehli (2003) 359-388 (also published in *Journal of Statistics and Management Systems*).

- G.-W. Weber, P. Taylan, S. Özögür and B. Akteke-Öztürk, Statistical learning and optimization methods in data mining, in: *Recent Advances in Statistics*, eds.: H.Ö. Ayhan and I. Batmaz, Turkish Statistical Institute Press, Ankara, at the occasion of “Graduate Summer School on New Advances in Statistics” (August 2007) 181-195.
- G.-W. Weber, Logik, invited paper, in Enzyklopädie der Wirtschaftsinformatik, Online-Lexikon, K. Kurbel, J. Becker, N. Gronau, E. Sinz and L. Suhl (eds.), Oldenbourg Wissenschaftsverlag Verlag, 2008, <http://www.oldenbourg.de:8080/wi-enzyklopaedie/lexikon/technologien-methoden/Informatik--Grundlagen/Logik-->.
- E. Kropat, G.-W. Weber and S. Belen, Dynamical gene-environment networks under ellipsoidal uncertainty – set-theoretic regression analysis based on ellipsoidal OR, corresponds to Chapter 35 in the Book *Dynamics, Games and Science I* (in Honour of Mauricio Peixoto and David Rand), Springer-Verlag 2011, Springer Proceeding in Mathematics, ISBN: 978-3-642-11455-7; M.M. Peixao, A.A Pinto and D.A. Rand (eds.) 703-733; <http://www.springer.com/mathematics/dynamical+systems/book/978-3-642-11455-7>.  
(The book proceeds the Conference DYNA2008, Braga, Portugal.)
- G.-W. Weber, P. Taylan, Z.-K. Görgülü, H. Abd. Rahman and A. Bahar, Parameter estimation in stochastic differential equations, corresponds to Chapter 50 of the book *Dynamics, Games and Science II* (in Honour of Mauricio Peixoto and David Rand), Springer-Verlag 2011, Springer Proceeding in Mathematics, ISBN: 978-3-642-14787-6; M. Peixoto, D. Rand and A. Pinto (eds.) 703-733; <http://www.springer.com/mathematics/dynamical+systems/book/978-3-642-14787-6>.  
(This book proceeds the Conference DYNA2008, Braga, Portugal.)
- G.-W. Weber, P. Taylan, B. Akteke-Oztürk and O. Ugur, Mathematical and data mining contributions to dynamics and optimization of gene-environment networks, Chapter in the Book *Crossing in Complexity: Interdisciplinary Application of Physics in Biological and Social Systems*, I. Licata and A. Sakaji (eds.), Nova Publishers (2011) 151-180; ISBN: 978-1-61668-037-4.
- R. Avros, O. Granichin, D. Shalymov, Z. Volkovich and G.-W. Weber, Randomized algorithm of finding the true number of clusters based on Chebychev polynomial approximation, in the book *Data Mining: Foundations and Intelligent Paradigms*, Volume 1: Clustering, Association and Classification, ISRL 23 (2011) 131-155, Springer-Verlag, Berlin, Heidelberg; D.E. Holmes, L.C. Jain (eds.).
- G.-W. Weber, Logik, invited paper, in Enzyklopädie der Wirtschaftsinformatik - Online Lexikon, 5th Edition, K. Kurbel, J. Becker, N. Gronau, E. Sinz and L. Suhl (eds.), Oldenbourg Wissenschaftsverlag Verlag, 2011, <http://www.enzyklopaedie-der-wirtschaftsinformatik.de/>.



- A.E. Yilmaz and G.-W. Weber, Why you should consider nature-inspired optimization methods in financial mathematics, Chapter 22 of the book *Non-linear Dynamics of Complex Systems: Applications in Physical, Biological and Financial Systems*, J.A. Tenreiro Machado, D. Baleanu and A.C.J. Luo, editors, Springer (2011) 241-255.
- E. Kropat, G.-W. Weber and C.S. Pedomallu, Regulatory networks under ellipsoidal uncertainty - optimization theory and dynamical systems, the book on *Data Mining: Foundations and Intelligent Paradigms*, ISRL 24 (2011), Volume 2: Statistical, Bayesian, Time Series and other Theoretical Aspects, ISRL 24 (2012) 27–56, Springer-Verlag, Berlin, Heidelberg; D.E. Holmes, L.C. Jain (eds.).
- V. Purutcuoglu, E. Kayis and G.-W. Weber, Background Normalization in Affymetrix Arrays and a Case Study, chapter in the book *Advances in Intelligent Modelling and Simulation: Simulation Tools and Applications*, Studies in Computational Intelligence 416, Springer Verlag, A. Byrski, Z. Oplatkova, M. Carvalho and M. Kisiel-Dorohinicki, editors, 2012, 199-220.
- E. Kartal-Koc, I. Batmaz and G.-W. Weber, Robust Regression Metamodeling of Complex Systems: The Case of Solid Rocket Motor Performance Metamodeling, chapter in the book *Advances in Intelligent Modelling and Simulation: Simulation Tools and Applications*, Studies in Computational Intelligence 416, Springer Verlag, A. Byrski, Z. Oplatkova, M. Carvalho and M. Kisiel-Dorohinicki, editors, 2012, 221-251.
- G.-W. Weber, Preface, to the book *Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance*, IGI GLOBAL, USA, Pandian Vasant, ed., 2013, xvii-xviii.
- E. Kilic, A. Karimov and G.-W. Weber, Applications of Stochastic Hybrid Systems in Portfolio Optimization, Chapter 5 in the book *Recent Advances in Computational Finance*, Nova Science Publishers, Inc., NY, N. Thomaidis and G.H. Dash, Jr, eds. (2013) 75-98; ISBN: 978-1-62618-123-6.
- G.-W. Weber and S. Kestel, Preface, Soft Computing Intelligent Algorithms in Engineering, Management, and Technology, Book Chapter project *Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications* with IGI Global, USA, Pandian Vasant, ed. (2013) xxvii-xxviii.
- G.-W. Weber, Logik, invited paper, in *Enzyklopaedie der Wirtschaftsinformatik - Online Lexikon*, 7th Edition, K. Kurbel, J. Becker, N. Gronau, E. Sinz and L. Suhl (eds.), Oldenbourg Wissenschaftsverlag Verlag, 2013, <http://www.enzyklopaedie-der-wirtschaftsinformatik.de/>.
- G.-W. Weber, Preface, in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, p. xi, D. Zilberman and A. Pinto, eds..

- Ö. Defterli, V. Purutcuoglu Gazi and G.-W. Weber, Advanced mathematical and statistical tools in the dynamic modeling and simulation of gene-regulatory networks, Chapter 14 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 237-257, D. Zilberman and A. Pinto, eds..
- Z. Alparslan Gök and G.-W. Weber, Cooperative ellipsoidal games: a survey, Chapter 17 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 279-284, D. Zilberman and A. Pinto, eds..
- E. Kropat, G.-W. Weber, S.Z. Alparslan-Gök and A. Özmen, Inverse problems in complex multi-modal regulatory networks based on uncertain clustered data, Chapter 25 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 437-451, D. Zilberman and A. Pinto, eds..
- E. Kürüm, G.-W. Weber and C. Iyigün, Financial Bubbles, Chapter 26 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 453-468, D. Zilberman and A. Pinto, eds..
- S. Kuter, G.-W. Weber, A. Özmen and Z. Akyürek, Modern applied mathematics for alternative modelling of the atmospheric effects on satellite images, Chapter 27 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 469-485, D. Zilberman and A. Pinto, eds..
- C.S. Pedamallu, L. Özdamar, and G.-W. Weber, On the use of cross impact analysis for enhancing performance in primary school education, Chapter 31 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 521-538, D. Zilberman and A. Pinto, eds..
- F. Yerlikaya-Özkurt, I. Batmaz and G.-W. Weber, A review of conic multivariate adaptive regression splines (CMARS): a powerful tool for predictive data mining, Chapter 38 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 695-722, D. Zilberman and A. Pinto, eds..
- M.H. Yildirim, Ö. Türker Bayrak and G.-W. Weber, Survey and evaluation on modelling of next-day electricity prices, Chapter 39 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73, 2014, pp. 723-737, D. Zilberman and A. Pinto, eds..
- F. Yilmaz, H. Öz and G.-W. Weber, Calculus and “Digitalization” in Finance: Change of Time Method and Stochastic Taylor Expansion with Computation of Expectation, Chapter 40 in book *Modeling, Optimization, Dynamics and Bioeconomy I, Springer Proceedings in Mathematics & Statistics*, Volume 73,

2014, pp. 739-753, D. Zilberman and A. Pinto, eds..

- G.-W. Weber and P. Vasant, Foreword, Artificial Intelligence Applications in Distance Education, Book Chapter project with IGI Global, USA, U. Köse and D. Koc, editors (DOI: 10.4018/978-1-4666-6276-6, ISBN13: 9781466662766, ISBN10: 146666276X, EISBN13: 9781466662773), 2015, xvi-xvii.
- G.-W. Weber and A.S. Kestel, Foreword, in: Handbook of Research on Artificial Intelligence Techniques and Algorithms, Volume I, Advances in Computational Intelligence and Robotics (ACIR) Book Series, Information Science Reference, IGI Global, Hershey PA, USA, P. Vasant, ed., April 2015, xxiv-xxv.
- G.-W. Weber and A.S. Kestel, Foreword, in: Handbook of Research on Artificial Intelligence Techniques and Algorithms, Volume II, Advances in Computational Intelligence and Robotics (ACIR) Book Series, Information Science Reference, IGI Global, Hershey PA, USA, P. Vasant, ed., April 2015, xxiv-xxv.
- Z. Cobandag and G.-W. Weber, Risk Modeling in Optimization Problems via Value at Risk, Conditional Value at Risk, and Its Robustification, to appear in Springer Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
- I. Dolgoplova, R. Teuber, V. Bruschi, G.-W. Weber, N. Danilenko and E. Galitskiy, Modelling Consumer Preferences for Novel Foods: Random Utility and Reference Point Effects Approach, to appear in Springer Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
- S. Kuter, Z. Akyürek, N. Kuter and G.-W. Weber, An alternative method for snow cover mapping on satellite images by modern applied mathematics, to appear in Springer Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
- C. Citak, S. Özgen and G.W. Weber, Mathematical Modelling for Wave Drag Optimization and Design of High-Speed Aircrafts, to appear in Springer Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
- E. Savku, N. Azevedo and G.W. Weber, Optimal Control of Stochastic Hybrid Models in the Framework of Regime Switches, to appear in Springer

- Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
- F. Yilmaz, H. Öz, and G.-W. Weber, Ito-Taylor Expansions for Systems of Stochastic Differential Equations with Applications to Stochastic Partial Differential Equations, to appear in Springer Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
  - G.-W. Weber, Preface, to appear in Springer Proceedings in Mathematics & Statistics Series Volume 195 (2017), Modeling, Dynamics, Optimization and Bioeconomics II — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
  - G.-W. Weber, Preface, to appear in Springer Proceedings in Mathematics & Statistics Series Volume, Modeling, Dynamics, Optimization and Bioeconomics III — DGS III, Porto Portugal, February 2014, and Bioecon 7, Berkeley, March 2014 - Selected Contributions, Editors: Pinto, Alberto A, Zilberman, David.
  - B. Akteke Öztürk, G.-W. Weber and G. Köksal, Desirability Functions in Multiresponse Optimization, in the book *Optimization in the Natural Sciences in Communications in Computer and Information Science (CCIS)* series, 499, Springer-Verlag, July 2015, 129-146; at the occasion of EURO Mini-conference on Optimization in the Natural Sciences, University of Aveiro, 5th-9th February, 2014.
  - P. Vasant, G.-W. Weber and V.N. Dieu, Modern Optimization Algorithms and Applications in Engineering and Economics, Preface of the Handbook of Research on the same subject, IGI Global, Hershey PA, USA, P. Vasant, G.-W. Weber and V.N. Dieu, eds., March 2016, xxxi-xxxvi.
  - G.-W. Weber, N.S. Aydin and E. Kropat, Foreword, in the book: *Sustaining Power Resources through Energy Optimization and Engineering*, IGI Global, Hershey PA, USA, P. Vasant and N. Voropai, eds. (January 2016) xix-xx.
  - G.-W. Weber, Logik, invited paper, in *Enzyklopaedie der Wirtschaftsinformatik - Online Lexikon*, 9th Edition, N. Gronau, J. Becker, E.J. Sinz, L. Suhl, J.M. Leimeister (eds.), Oldenbourg Wissenschaftsverlag Verlag, December 2016,  
<http://www.enzyklopaedie-der-wirtschaftsinformatik.de/>.
  - G.-W. Weber, Foreword, in the book: *Holistic Optimization Techniques in the Hospitality, Tourism and Travel Industry*, IGI Global, Hershey PA, USA, P. Vasant and Kalaivanthan, eds., December 2016, xxiii-xiv.

- G.-W. Weber, C.S. Peadamallu, L. Özdamar, H. Akar and H. Mawengkang, Analyzing and Controlling the Factors Influencing the Quality of Primary Education in Developing Countries, in Book of Abstracts “State of the Art Workshop of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 31, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-50-9, D. DeTombe, C. Brugha and G.-W. Weber (eds.) 7.
- S. Kuter, Z. Akyurek, G.-W. Weber, Artificial Neural Networks vs. Multivariate Adaptive Regression Splines for Subpixel Snow Mapping from Satellite Data, in Book of Abstracts “State of the Art Workshop of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 31, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-50-9, D. DeTombe, C. Brugha and G.-W. Weber (eds.) 11-15.
- O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, A Survey on Transportation Interval Games, in Book of Abstracts “State of the Art Workshop of the 28th EURO Conference Operational Research, Poznan 2016, Operational Research EURO MSC / EURO MCDA / EUROPT / EURO ORD / Ethics and OR, Volume 31, Europe, The Netherlands, Amsterdam; UK, Guilford; North-America, Canada, Montreal: Greenhill & Waterfront, ISBN /EAN 978-90-77171-50-9, D. DeTombe, C. Brugha and G.-W. Weber (eds.) 16-20.
- G.-W. Weber, E. Savku and E. Kropat, Foreword, in the book: Advances in Metaheuristics: Application in Engineering Systems, T. Ganesan, P. Vasant and I. Elamvazuthi, CRC Press, Taylor & Francis Group (December 2016) xi-xiii.
- G.-W. Weber, Preface, to appear as book chapter in Springer Proceedings in Mathematics & Statistics (PROMS), Modeling, Dynamics, Optimization and Bioeconomics III, A. Pinto and D. Zilberman, editors, at the occasion of 3rd International Conference on Dynamics, Games and Science, February 17-21, 2014, University of Porto, Portugal.
- G.-W. Weber, Foreword, in the book by N.S. Aydin, *Financial Modelling with Forward-looking Information: An Intuitive Approach to Asset Pricing*, Contributions to Management Science, Springer-Verlag, 2017, vii-viii.
- P. Vasant, S.Z. Alparslan-Gök and G.-W. Weber, Prefaces, in *Handbook of Research on Emergent Applications of Optimization Algorithms, Volumes 1-2*, IGI Global, Hershey PA, USA, to appear.
- G.-W. Weber, Foreword, to appear in *Innovative Computing, Optimization and Its Applications - Modelling and Simulations*, Studies in Computational

- Intelligence Book Series, Springer Verlag, at the occasion of Computer Science and Engineering (COMPSE 2016), November 11-12, 2016, Penang, Malaysia.
- G.-W. Weber, Foreword, in the book by A. Karimov, *Identifying Stock Market Bubbles: Modeling Illiquidity Premium and Bid-Ask Prices of the Financial Securities*, in the book Contributions to Management Science, Springer-Verlag, to appear.
  - P. Taylan and G.-W. Weber, C-GLASSO Estimator FOR Multivariate Adaptive Regression Spline, to appear in the book *Mathematical Methods in Engineering: Theoretical Aspects*, guest editors: K. Tas, D. Baleanu and J.A. Tenreiro Machado, Springer Verlag.
  - Z. Cobandag Guloglu and G.W. Weber, Comparing Value at Risk, Conditional Value at Risk and Robust Conditional Value at Risk, to appear in the book *State-of-the-Art 2017. ICCI & IWP / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2017.
  - P. Taylan and G.W. Weber, Classification Model based on Multivariate Adaptive Regression Splines (MARS), to appear in the book *State-of-the-Art 2017. ICCI & IWP / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2017.
  - S. Kuter, B.B. Ciftci and G.-W. Weber, Snow Cover Mapping from Satellite Data by Artificial Neural Networks and Support Vector Machines — An OR Contribution to Land-Use, Water-Management and Development, to appear in the book *State-of-the-Art 2017. ICCI & IWPI / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2017.
  - E. Kropat and G.-W. Weber, On a Strategy Towards the Exploration of Implicit Motives and Associated Automatic Processes with Respect to Intertemporal and Impulsive Decision-Making, to appear in the book *State-of-the-Art 2017. ICCI & IWPI / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2017.
  - E. Kropat and G.-W. Weber, The Combined Effect of Right Prefrontal Cortex Signals and Testosterone Levels on Economic Decision-Making after Social Provocation, to appear in the book *State-of-the-Art 2017. ICCI & IWPI / EURO MCDA / EUROPT / EURO ORD / Ethics and OR*, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, 2017.
  - G.-W. Weber and E. Savku, Foreword of the Book *Renewable Energy and Electric Resources for Sustainable Rural Development*, IGI Global, Hershey PA, USA, to appear.

<https://link.springer.com/article/10.1007/s10957-017-1144-x>

- G.-W. Weber, Logik, invited paper, in Enzyklopädie der Wirtschaftsinformatik, Online-Lexikon, 8th edition, K. Kurbel, J. Becker, N. Gronau, E. Sinz and L. Suhl (eds.), Oldenbourg Wissenschaftsverlag Verlag, 2015, <http://www.oldenbourg.de:8080/wi-enzyklopaedie/lexikon/technologien-methoden/Informatik--Grundlagen/Logik-->.
- G.-W. Weber, Logik, invited paper, in Enzyklopädie der Wirtschaftsinformatik, Online-Lexikon, 9th edition, N. Gronau, J. Becker, J.M. Leimeister, E. Sinz and L. Suhl (eds.), Oldenbourg Wissenschaftsverlag Verlag, 2016, <http://www.enzyklopaedie-der-wirtschaftsinformatik.de/lexikon/technologien-methoden/Informatik--Grundlagen/Logik--/index.html/?searchterm=Logik>.

## 2.5 Publications in Refereed Proceedings

- H. Th. Jongen and G.-W. Weber, Nonconvex optimization and its structural frontiers, in: *Modern Methods in Optimization*, eds.: W. Krabs and J. Zowe, Lecture Notes in Econom. and Math. Systems 378 (1992) 151-203.
- G.-W. Weber, Minimization of a max-type function: Characterization of structural stability, in: *Parametric Optimization and Related Topics III*, eds.: J. Guddat, H.Th. Jongen, B. Kummer and F. Nožička, Peter Lang publishing house, Frankfurt a.M., Bern, New York (1993) 519-538.
- G.-W. Weber, Generalized semi-infinite optimization: On iteration procedures and topological aspects, in: *Similarity Methods. International Workshop*, eds.: B. Kröplin, S. Rudolph and S. Brückner (Institute for Statics and Dynamics of Aerospace Structures, Stuttgart, 1998) 281-309.
- S. W. Pickl and G.-W. Weber, Optimal control of heating processes – with special emphasis on earth warming, in: *Operations Research Proceedings 2001*, eds.: P. Chamoni, R. Leisten, A. Martin, J. Minnemann and H. Stadler, Springer Verlag, Heidelberg, New York (2002) 247-254.
- J. Gebert, S. W. Pickl, N. Shokina, G.-W. Weber and R. Wünschiers, Algorithmic analysis of gene expression data with polyhedral structures, in: *Similarity Methods – 5th International Workshop*, at the occasion of workshop with the same name, Stuttgart (November 2002), by Institute of Statics and Dynamics of Aerospace Structures, University of Stuttgart, eds.: B. Kröplin, S. Rudolph and J. Häcker, ISBN 3-930683-47-4 (2002) 79-87.
- J. Gebert, S.W. Pickl, N. Shokina, G.-W. Weber and R. Wünschiers, Mathematical modeling and discrete approximation in evaluation and forecasting of expression-data, Scientific Program of the *2nd Cologne Twente Workshop on Graphs and Combinatorial Optimization*, 2003, Abstracts, 54-58 (also published as an article in refereed Electronic Notes in Discrete Mathematics).
- J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, To-

- wards DNA chip analysis and discrete tomography by reverse problems and optimization, proceedings of *4th MATHMOD Vienna - Fourth International Symposium on Mathematical Modelling*, Vienna, February 2003 (2003) 1298-1302.
- S.W. Pickl, R. Wünschiers and G.-W. Weber, An approach to discrete tomography by inverse problems, to appear in the proceedings of *4th MATHMOD Vienna – Fourth International Symposium on Mathematical Modelling*, Vienna (February 2003).
  - Th. Wiebringhaus, U. Faigle, D. Schomburg, J. Gebert, Ch. Igel, and G.-W. Weber, Protein fold class prediction using neural networks reconsidered, in: *Curr. in Comp. Mol., Sev. Ann. Int. Conf. on Res. in Comp. Mol. Biol. (RECOMB 2003)* (2003) 225-226.
  - D. Lozuvanu, S.W. Pickl and G.-W. Weber, Optimization, monotonicity and the determination of Nash equilibria, invited paper, Computing Anticipatory Systems: CASYS'03 - Sixth International Conference, AIP Conference Proceedings 718 (2004) 351-361.
  - J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, Genetic networks and anticipation of gene expression patterns, invited paper, Computing Anticipatory Systems: CASYS'03 - Sixth International Conference, AIP Conference Proceedings 718 (2004) 474-485.
  - J. Gebert, H. Öktem, S.W. Pickl, N. Radde, G.-W. Weber and F.B. Yilmaz, Inference of gene expression patterns by using a hybrid system formulation – an algorithmic approach to local state transition matrices, in: *Anticipative and Predictive Models in Systems Science I*, eds.: G.E. Lasker and D.M. Dubois, IAS (International Institute for Advanced Studies) in Windsor, Ontario (2004) 63-66; ISBN number: 189461349X.
  - F.B. Yilmaz, H. Öktem and G.-W. Weber, Mathematical modeling and approximation of gene expression patterns and gene networks, in: *Operations Research Proceedings*, at the occasion of International Conference on Operations Research, Tilburg, The Netherlands, September 2004, eds.: F. Fleuren, D. den Hertog and P. Kort (2005) 280-287.
  - S. Özögür, A. Gülcin Sagdicoglu Celep, B. Karasözen, N. Yildirim and G.-W. Weber, Dynamical modelling of enzymatic reactions, simulation and parameter estimation with genetic algorithms, in: *HIBIT - Proceedings of International Symposium on Health Informatics and Bioinformatics, Turkey '05*, Antalya, Turkey, November 2005 (2005) 78-84.
  - M.U. Akhmet, H. Öktem, S.W. Pickl and G.-W. Weber, An anticipatory extension of Malthusian model, in: *Computing Anticipatory Systems, CASYS'05*, Seventh International Conference on Computing Anticipatory Systems (Liege, Belgium, August 2005), D. Dubois, ed., AIP Conference Proceedings (Melville, New York) 839 (2006) 260-264.



- M. Tastan, T. Ergenç, S.W. Pickl and G.-W. Weber, Stability analysis of gene expression patterns by dynamical systems and a combinatorial algorithm, in: *HIBIT - Proceedings of International Symposium on Health Informatics and Bioinformatics, Turkey '05*, Antalya, Turkey, November 2005 (2005) 67-75.
- P. Taylan and G.-W. Weber, New approaches to regression in financial mathematics by generalized additive models, in: *Proceedings of First Conference of Advanced Mathematical Methods for Finance*, April 29, 2006, Side, Antalya, Turkey.
- M. Tastan, S.W. Pickl and G.-W. Weber, Mathematical modeling and stability analysis of gene-expression patterns in an extended space and with Runge-Kutta discretization, in the proceedings of *Operations Research 2005* (Bremen, September 2005) (2006) 443-450.
- Ö. Yasar and G.-W. Weber, Discrete tomography: a joint contribution by optimization, equivariance analysis and learning, in: *Partial Proceedings of the Seventh International Conference CASYS'05 on Computing Anticipatory Systems*, Liege, Belgium, August 8-13, 2005, D.M. Dubois (ed.), publ. by CHAOS, 18, (2006) 3-24. ISSN 1373-5411 ISBN 2-930396-04-0
- G.-W. Weber and Ö. Uğur, Optimizing gene-environment networks: generalized semi-infinite programming approach with intervals, in the proceedings of International Symposium on Health Informatics and Bioinformatics Turkey '07, HIBIT (Antalya, Turkey, April 30 - May 2, 2007), <http://hibit.ii.metu.edu.tr/07/index.html>.
- M. Tastan, Ö. Celik, G.-W. Weber, F. Korkusuz and B. Karasözen, New approaches in mathematical modeling of proximal femur geometry and bone mineral density, METU, in the proceedings of International Symposium on Health Informatics and Bioinformatics Turkey '07, HIBIT (Antalya, Turkey, April 30 - May 2, 2007), <http://hibit.ii.metu.edu.tr/07/index.html>.
- B. Akteke-Öztürk, G.-W. Weber and S. Kayalığıl, Kalite iyilestirmede veri kümeleme: Döküm endüstrisinde bir uygulama, in the proceedings of Yöneylem Araştırması ve Endüstri Mühendisliği 27. Ulusal Kongresi (YA/EM 2007), July 2-4, 2007, Izmir, Turkey, 1207-1212.
- G.-W. Weber, E. Kropat and S.Z. Alparslan Gök, Semi-infinite and conic optimization in modern human, life and financial sciences under uncertainty, ISI Proceedings of 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies* (Neringa, Lithuania, May 20-23, 2008) 180-185.
- Z. Barzily, Z.V. Volkovich, B. Akteke-Öztürk and G.-W. Weber, Cluster stability using minimal spanning trees, ISI Proceedings of 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies* (Neringa, Lithuania, May 20-23, 2008) 248-252.
- S. Özögür and G.-W. Weber, Learning with infinitely many kernels via semi-

- infinite programming, ISI Proceedings of 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies* (Neringa, Lithuania, May 20-23, 2008) 342-348.
- P. Taylan, G.-W. Weber and F. Yerlikaya, Continuous optimization applied in MARS for modern applications in finance, science and technology, ISI Proceedings of 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies* (Neringa, Lithuania, May 20-23, 2008) 317-322.
  - B. Akteke-Öztürk, G.-W. Weber and E. Kropat, Continuous optimization approaches for minimum sum of squares, in the ISI Proceedings of 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies* (Neringa, Lithuania, May 20-23, 2008) 253-258.
  - T. Tchemisova, B. Akteke-Öztürk and G.-W. Weber, On continuous optimization methods in data mining — cluster analysis, classification and regression — provided for decision support and other applications, in proceedings *Collaborative Decision Making: Perspectives and Challenges* of IFIP TC8/WG8.3 Working Conference: International Conference on Collaborative Decision Making (CDM'08), Toulouse, France, July 1-4, 2008.
  - M. Kahraman, H. Öktem, G.-W. Weber and M.U. Akhmet, Using piecewise linear systems with delay to grab the functional dynamics in biological systems, in the proceedings of International Symposium on Health Informatics and Bioinformatics, Turkey'08, Istanbul, Turkey, May 18-20, 2008.
  - P. Taylan and G.-W. Weber, Parameter estimation for stochastic differential equations by additive models using nonlinear regression, splines and conic programming, Collected Contributions (proceedings CD) at the occasion of Workshop in Memory of Professor Hayri Körezlioğlu, Recent Developments in Financial Mathematics and Stochastic Calculus, METU, Ankara, Turkey, April 25–26, 2008.
  - E. Kropat, G.-W. Weber and B. Akteke-Öztürk, Eco-finance networks under uncertainty, proceedings of EngOpt 2008 - International Conference on Engineering Optimization (Rio de Janeiro, Brazil, June 1-5, 2008), at CD.
  - F. Yerikaya, G.-W. Weber, P. Taylan, I. Batmaz and G. Köksal, MARS algoritmasında Tikhonov düzenlemesi ve çok amaçlı optimizasyon kullanımı, in the Proceedings of Operational Research and Industrial Engineering Annual Conference (YA/EM'08) (Galatasaray University, Istanbul, Turkey, June 30 - July 2, 2008) (on a CD).
  - S. Özögür-Akyüz, B. Akteke-Öztürk, T. Tchemisova and G.-W. Weber, New optimization methods in data mining, in Operations Research Proceedings, Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), University of Augsburg, Germany, September 3-5, 2008, B. Fleischmann, K.H. Borgwardt, R. Klein and A. Thuma, eds., Springer Verlag, 2009, 527-532.

- Z. Volkovich, Z. Barzily, G.-W. Weber and D. Toledano-Kitai, Cluster stability estimation based on a minimal spanning trees approach, Proceedings of the Second Global Conference on Power Control and Optimization, AIP Conference Proceedings 1159, Bali, Indonesia, 1-3 June 2009, Subseries: Mathematical and Statistical Physics; ISBN 978-0-7354-0696-4 (August 2009) 299-305; A.H. Hakim, P. Vasant and N. Barsoum, guest eds..
- S. Özögür-Akyüz and G.-W. Weber, Infinite kernel learning by infinite and semi-infinite programming, Proceedings of the Second Global Conference on Power Control and Optimization, AIP Conference Proceedings 1159, Bali, Indonesia, 1-3 June 2009, Subseries: Mathematical and Statistical Physics; ISBN 978-0-7354-0696-4 (August 2009) 306-313; A.H. Hakim, P. Vasant and N. Barsoum, guest eds..
- H. Abd. Rahman, A. Bahar, M. Khairul Bazli, N. Rosli, M. Salleh and G.-W. Weber, Levenberg-Marquardt Parameter Estimation of Stochastic Logistic Model, in the proceedings of Joint Conference — Second International Conference and Workshops on Basic and Applied Sciences & Regional Annual Fundamental Science Seminar 2009, Johor Bahru, Malaysia, June 2-4, 2009, 44-48.
- B. Akteke-Öztürk, G.-W. Weber and G. Köksal, Çekicilik fonksiyonlarının bileşke fonksiyonları olarak çözümlenmesi, in the proceedings of Yöneylem Araştırması ve Endüstri Mühendisliği 29. Ulusal Kongresi (YA/EM 2009), July 22-24, 2009, Ankara, Turkey.
- Z. Volkovich, G.-W. Weber and R. Avros, On an adjacent cluster merit, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (on a CD; ISBN: 978-983-44483-1-8),
- also in AIP Conference Proceedings, Volume 1239, Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010, ISBN: 978-0-7354-0785-5 (AIP: American Institute of Physics) 361-366.
- S.Z. Alparslan Gök and G.-W. Weber, Cooperative games under ellipsoidal uncertainty, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8).
- C.S. Peadamallu, L. Özdamar, G.-W. Weber and E. Kropat, A system dynamics model to study the importance of infrastructure facilities on quality of primary education system in developing countries, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8),
- also in AIP Conference Proceedings, Volume 1239, Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010, ISBN: 978-0-7354-

- 0785-5 (AIP: American Institute of Physics) 321-325.
- V. Strijov and G.-W. Weber, Nonlinear regression model generation using hyperparameters optimization, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8).
  - P. Taylan, G.-W. Weber and L. Liu, On foundations of parameter estimation for generalized partial linear models with B-splines and continuous optimization, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8),
  - also in AIP Conference Proceedings, Volume 1239, Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010, ISBN: 978-0-7354-0785-5 (AIP: American Institute of Physics) 297-304.
  - Ö. Defterli, A. Fügenschuh and G.-W. Weber, New discretization and optimization techniques with results in the dynamics of gene-environment networks, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8).
  - T. Paksoy, E. Özceylan and G.-W. Weber, A multi objective model for optimization of a green supply chain network, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8),
  - also in AIP Conference Proceedings, Volume 1239, Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010, ISBN: 978-0-7354-0785-5 (AIP: American Institute of Physics) 311-320.
  - B. Akteke Öztürk, G. Köksal and G.-W. Weber, Optimization of desirability functions as a DNLP model by GAMS/BARON, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8),
  - also in AIP Conference Proceedings, Volume 1239, Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010, ISBN: 978-0-7354-0785-5 (AIP: American Institute of Physics) 305-310.
  - I. Batmaz, F. Yerlika-Özkurt, E. Kartal-Koc, G. Köksal and G.-W. Weber, Evaluating the CMARS performance for modeling nonlinearities, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8),
  - also in AIP Conference Proceedings, Volume 1239, Power Control and Op-

- timization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2–4 February 2010, ISBN: 978-0-7354-0785-5 (AIP: American Institute of Physics) 351-357.
- E. Özceylan, T. Paksoy, E. del Rosario, E. Kropat and G.-W. Weber, A review on the state of the energy sector of Turkey from the perspective of Operational Research - an invitation by OR -, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia (ISBN: 978-983-44483-1-8).
  - S. Sarikaya, G.-W. Weber and Y. Serinagaoglu Dogrusöz, Combination of conventional regularization methods and genetic algorithm for solving the inverse problem of electrocardiography, in the proceedings of HIBIT 2010 - 5th International Symposium on Health Informatics and Bioinformatics, April 20-22, 2010, Lara, Antalya, Turkey; Pages: 13-20, Location: Ankara, Turkey, Print ISBN: 978-1-4244-5968-1, DOI: 10.1109/HIBIT.2010.5478914, Date of Current Version: 03 June 2010.
  - A. Özmen, G.-W. Weber and I. Batmaz, The new robust CMARS (RCMARS) method, *24th Mini EURO Conference - On Continuous Optimization and Information-Based Technologies in the Financial Sector, MEC EurOPT 2010, Selected Papers*, ISI Proceedings (Izmir, Turkey, June 23-June 26, 2010) 362-368.
  - G.-W. Weber, R. Branzei and S.Z. Alparslan Gök, On cooperative ellipsoidal games, *24th Mini EURO Conference - On Continuous Optimization and Information-Based Technologies in the Financial Sector, MEC EurOPT 2010, Selected Papers*, ISI Proceedings (Izmir, Turkey, June 23-June 26, 2010) 369-372.
  - A. Yilmaz and G.-W. Weber, Why You Should Consider Nature-Inspired Optimization Methods in Financial Mathematics, in the proceedings of 3rd Conference on Nonlinear Science and Complexity (NSC 3rd), July 28-31, 2010, Ankara, Turkey.
  - A. Özmen, G.-W. Weber, I. Batmaz and E. Kropat, The new Robust CMARS (RCMARS) method, in the proceedings of 3rd Conference on Nonlinear Science and Complexity (NSC 3rd), July 28-31, 2010, Ankara, Turkey (on a CD).
  - Ö. Defterli, A. Fügenschuh and G.-W. Weber, Modern tools for the time-discrete dynamics and optimization of gene-environment networks, in the proceedings of 3rd Conference on Nonlinear Science and Complexity (NSC 3rd), July 28-31, 2010, Ankara, Turkey (on a CD).
  - F. Yaman, A.E. Yilmaz and G.-W. Weber, Genetik algoritma ile doğrusal anten dizisi tasarımında çekicilik fonksiyonu kullanımının incelenmesi (Investigation of applicability of the desirability functions at linear antenna array design via genetic algorithm), in the proceedings of URSI 5. National Congress, Güzelyurt, Cyprus, August 25-27, 2010, 187-190.

- G.-W. Weber, R. Branzei and S.Z. Alparslan Gök, On the ellipsoidal core for cooperative games under ellipsoidal uncertainty, in the proceedings of 2nd International Conference on Engineering Optimization (Lisbon, Portugal, September 6-9, 2010) (on a CD-Rom).
- O.T. Altinoz, A.E. Yilmaz and G.-W. Weber, Chaos particle swarm optimized PID controller for the inverted pendulum system, in the proceedings of 2nd International Conference on Engineering Optimization (Lisbon, Portugal, September 6-9, 2010) (on a CD-Rom).
- B. Belen, M.E. Özel and G.-W. Weber, Some notes on the Milesian School and its scholar, Thales of Miletus, in the proceedings of World Universities Congress (Canakkale Onsekiz Mart University, Turkey, October 20-24, 2010), volume 1, 66-86.
- G. Üstünkar, S. Özögür-Akyüz and G.-W. Weber, SNP-Complex Disease Association by Simulated Annealing Approach, extended abstract, 8th International Conference on Optimization: Techniques and Applications (ICOTA8), Shanghai, China, December 10-13, 2010.
- E. Kürüm, N. Azevedo, D. Pinheiro and G.-W. Weber, Stochastic Control of Hybrid Systems with Applications to Finance, extended abstract, 8th International Conference on Optimization: Techniques and Applications (ICOTA8), Shanghai, China, December 10-13, 2010.
- G.-W. Weber, A. Özmen and I. Batmaz, RCMARS: The new robust CMARS method, Proceedings of VI Moscow International Conference on Operations Research (ORM2010; Moscow, Russia, October 20-25, 2010) 211-212.
- A. Özmen, G.-W. Weber and I. Batmaz, RCMARS - Sağlam CMARS Yöntemi ve Sayısal bir Uygulama, in VII. İstatistik Günleri Sempozyumu Bildiriler Kitabı, Ö. Ayhan and C. Yozgatlıgil (eds.), 2011, 101-108; <http://www.stat.metu.edu.tr/igs2010/IGS%20Bildiriler%20Kitabi.pdf>.
- V. Strijov, K. Krymova and G.-W. Weber, Evidence optimization for consequently generated models, AIP Conf. Proc. 1337, 204-208 (2011) (American Institute of Physics), proceedings of 4rd Global Conference on Power and Optimization - PCO 2010, Sarawak, Borneo, Malaysia, December 2-4, 2010. Proceedings of the Fourth Global Conference on Power Control and Optimization, 2011, American Institute of Physics 978-0-7354-0893-7/\$30.00; doi: 10.1063/1.3592467.
- G. Üstünkar, S. Özögür-Akyüz, G.-W. Weber and Y.A. Aydin Son, Analysis of SNP-complex disease association by a novel feature selection method, in Operations Research Proceedings 2010, Selected Papers of the Annual International Conference of the German Operation Research Society, B. Hu, K. Morasch, S. Pickl and M. Siegle, eds., Springer, Berlin, Heidelberg, 2011, 21-26.
- T. Paksoy, E. Özceylan, N. Yapici Pehlivan and G.-W. Weber, Particle swarm

- optimization approach for estimation of energy demand of Turkey, in the proceedings of PCO 2011 Dubai, the 5th Global Conference on Power Control and Optimization, Dubai, United Arab Emirates, June 1-3, 2011; ISBN: 983-44483-49.
- A. Özmen and G.-W. Weber, Robust conic generalized partial linear models using RCMARS method - a robustification of CGPLM, in the proceedings of PCO 2011 Dubai, the 5th Global Conference on Power Control and Optimization, Dubai, United Arab Emirates, June 1-3, 2011; ISBN: 983-44483-49.
  - E. Quek, V. Purutcuoglu, R. Sambanthamurthi and G.-W. Weber, Modelling lipid biosynthesis pathways of oil palms by Boolean and graphical approaches, in the proceedings of 6th International Symposium on Health Informatics and Bioinformatics (HIBIT 2011), Izmir, Turkey, May 2-5, 2011.
  - A. Özmen, Z. Cavusoglu and G.-W. Weber, Predicting default probabilities in emerging markets by new robust conic GPLMs and their optimization, Extended Abstract, in: NEDETAS 2011 - New Developments in Theory and Applications of Statistics: An International Conference Dedicated to the Memory of Moti Lal Tiku, Abstract Book, 61-64.
  - Z. Cobandag and G.-W. Weber, Risk modeling in optimization problems via Value at Risk and Conditional Value at Risk, Extended Abstract, in: NEDETAS 2011 - New Developments in Theory and Applications of Statistics: An International Conference Dedicated to the Memory of Moti Lal Tiku, Abstract Book, 134-137.
  - B.Z. Temocin, G.-W. Weber, N. Azevdo and D. Pinheiro, Applications of hybrid systems in finance, Extended Abstract, in: The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011, Abstracts, L.A. Petrosyan and N.A. Zenkevich (eds.), 236-238.
  - G.-W. Weber, S.Z. Alparslan Gök and E. Kropat, Recent advances on ellipsoidal cooperative games, Extended Abstract, in: The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, June 27-29, 2011, Abstracts, L.A. Petrosyan and N.A. Zenkevich (eds.), 255-257.
  - C.S. Pedamallu, L. Özdamar and G.-W. Weber, System dynamics with cross impact analysis, in: *Advances in Simulation-Based Decision Support, Volume II*, M. Kljajic and G.E. Lasker (eds.), The International Institute for Advanced Studies in System Research and Cybernetics, 2011, 41-45.
  - V. Purutcuoglu, T. Erdem and G.-W. Weber, Inference of the JAK-STAT gene network via graphical models, in: *Advances in Simulation-Based Decision Support, Volume II*, M. Kljajic and G.E. Lasker (eds.), The International Institute for Advanced Studies in System Research and Cybernetics, 2011, 46-50.
  - M.H. Yildirim, A. Özmen, Ö. Türker Bayrak and G.-W. Weber, Electricity

price modelling for Turkey, Operations Research Proceedings 2011, Selected Papers of the International Conference on Operations Research (OR 2011), August 30 - September 2, 2011, Zurich, Switzerland, D. Klatte, K. Schmedders and Hans-Jakob Luethi, eds. (2012) 39-44.

- A. Vasin, P. Kartunova and G.-W. Weber, Models for capacity and electricity market, The Sixth International Conference on Game Theory and Management — GTM2012, Abstracts Edited by Leon A. Petrosyan and Nikolay A. Zenkevich, Graduate School of Management, St. Petersburg University, St. Petersburg, 2012, 272-275.
- A. Vasin, Y. Sosina and G.-W. Weber, Evaluation of market power in local and two-node markets, NGM-2012, International Workshop Networking Games and Management, Extended Abstracts, Institute of Applied Mathematical Research, Karelian Research Centre, Russian Academy of Sciences, Petrozavodsk, 2012, V.V. Mazalov, ed., 66-69.
- B.Z. Temocin, A. Karimov, A. Iscanoglu Cekic and G.-W. Weber, Optimal control of stochastic hybrid system with jumps: a numerical approximation, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics Ankara, Turkey, October 3-6, 2012.
- F. Solatikia and G.-W. Weber, Generation for optimization in  $C(\Omega)$  with applications in portfolio insurance, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics Ankara, Turkey, October 3-6, 2012.
- A. Özmen and G.-W. Weber, RMARS: Robustification of Multivariate Adaptive Regression Spline, and an application in finance, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics, Ankara, Turkey, October 3-6, 2012.
- A. Motrenko, V. Strijov, G.-W. Weber, Bayesian sample size estimation for logistic regression, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics, Ankara, Turkey, October 3-6, 2012.
- O.T. Altinöz, A.E. Yilmaz and G.-W. Weber, Optimization of first generation crone approximated fractional-order  $PI^{\lambda}D^{\mu}$  controller by using charged system search, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics, Ankara, Turkey, October 3-6, 2012.
- O.T. Altinöz, A.E. Yilmaz and G.-W. Weber, Initialization phase of the gravitational search algorithm by means of low-discrepancy Sobol quasi-random number sequence, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics, Ankara, Turkey, October 3-6, 2012.



- F. Yerlikaya-Özkurt, C. Vardar-Acar, Y. Yolcu-Okur and G.-W. Weber, Estimation of Hurst parameter of fractional Brownian motion using CMARS method, Extended Abstract, Volume of Abstracts (Book of Abstracts) of ICACM - International Conference on Applied and Computational Mathematics, Ankara, Turkey, October 3-6, 2012.
- A. Özmen and G.-W. Weber, Robust conic generalized partial linear models using RCMARS method, AIP Conference Proceedings 1499 (2012) 337-343 (ISBN 978-0-7354-1113-5, ISSN 0094-243X) (AIP: American Institute of Physics).
- G.-W. Weber, S. Kuter, F. Yerlikaya-Özkurt, E. Kilic and A. Karimov, Investigation stochastic hybrid systems within the frame of portfolio optimization by modern applied mathematics, in the proceedings (CD) of International Istanbul Finance Congress - 2013 (IIFC 2013), Kadir Has University, Istanbul, May 30-31, 2013 (May 31, 2013, Session 2-2) 94-116.
- E. Ming Poh Quek, V. Purutcuoglu, R. Sambanthamurthi and G.-W. Weber, Modelling lipid biosynthesis pathways of oil palm by Boolean and graphical approaches, IEEE Xplore (2013); at the occasion of HIBIT 2011 conference in Izmir, Turkey, 129-135.
- O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Cooperative interval games: forest situations with interval data, Game Theory and Management, The Seventh International Conference, GTM2013, June 26-28, 2013, St. Petersburg, Russia, Abstracts, St. Petersburg University and The International Society of Dynamic Games (Russian Chapter) (2013) 180-181.
- O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Forest situations and cost monotonic solutions, in: Contributions to Game Theory and Management, Volume VI, The Seventh International Conference, Game Theory and Management, GTM2013, June 26-28, 2013, St. Petersburg, Russia, Collected papers, edited by L.A. Petrosyan and N.A. Zenkevich, St. Petersburg University and The International Society of Dynamic Games (Russian Chapter) (2013) 351-361.
- G.-W. Weber and A. Özmen, Robust counterparts for MARS and CMARS under polyhedral uncertainty, Proceedings Volume 1, VII Moscow International Conference on Operations Research (ORM2013), Moscow, October 15-19, 2013, 88-91.
- A. Vasin, M. Dolmatova and G.-W. Weber, Best response dynamics for the repeated supply function equilibrium auctions, Proceedings Volume 1, VII Moscow International Conference on Operations Research (ORM2013), Moscow, October 15-19, 2013, 241-244.
- F. Yilmaz, H. Öz and G.-W. Weber, Approximation and Numerical Solution of Optimal Stochastic Control Problems for Multi-dimensional Stochastic Differential Equations by Using Itô-Taylor-Malliavin Calculus, extended abstract at the occasion of The 9th International Conference on Optimization:

- Techniques and Applications (ICOTA 2013), Taipei, Taiwan, December 12-16, 2013.
- F. Yilmaz, H. Öz and G.-W. Weber, Approximation of Optimal Stochastic Control Problems for Stochastic Partial Differential Equations by Using Ito-Taylor Method, in: 8th International Conference on Game Theory and Management (GTM 2014), St. Petersburg, Russia, 16-17.
  - L. Amaya Moreno, Ö. Defterli, A. Fügenschuh and G.-W. Weber, Vester's Sensitivity Model for Genetic Networks with Time-Discrete Dynamics, AICoB 2014, Lecture Notes in Bioinformatics (LNBI) 8542 (A.-H. Dediu, C. Martin-Vide, and B. Truthe, eds.), Springer International Publishing Switzerland 2014, 3546, 2014; in Proceedings in the LNBI series of Springer at the occasion of AICoB 2014, July 1-3, 2014, Tarragona, Spain.
  - O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Interval obligation rules and related results, in: Contributions to Game Theory and Management, Volume VII, 2014, 262-270; at the occasion of GTM 2013, St. Petersburg, Russia, edited by L.A. Petrosyan and N.A. Zenkevich, St. Petersburg University and The International Society of Dynamic Games (Russian Chapter), ISSN 2310-2608.
  - F. Gharbalchi, Y. Serinagaogly Dogrusöz and G.-W. Weber, Inverse Electrocardiography Using Reduced Leadset by TTLS and LTTLS Regularization Algorithms, in 13th International Conference on Signal Processing (SIP '14), Istanbul, Turkey, December 15-17, 2014; <http://www.wseas.us/e-library/conferences/2014/Istanbul/ELECT/ELECT-19.pdf>.
  - S. Kuter, G.-W. Weber and B. Karasözen, Modern Uygulamalı Matematik ve Modern Sürekli Optimizasyon Bağlamında Parametrik Olmayan Regresyon Eğrilerinin Bilim, Mühendislik ve Finans Alanlarındaki Güncel Uygulamaları, to appear in proceedings of Anadolu Üniversitesi, Akademik Bili sim Konferansı - AB 2015, Eskisehir, Turkey, January 31 - February 6, 2015, <http://ab.org.tr/ab15/bildiri/321.pdf>.
  - Y. Yilmaz, R. Kurz, A. Özmen and G.-W. Weber, A New Algorithm for Condition Monitoring of Gas Turbines, Proceedings of the ASME Turbo Expo 2015: Turbine Technical Conference and Exposition, GT2015, Volume 9: Oil and Gas Applications; Supercritical CO2 Power Cycles; Wind Energy, Montréal, Quebec, Canada, June 15-19, 2015, GT2015-43545, pp. V009T24A014; 12 pages, doi:10.1115/GT2015-43545.
  - O. Palanci, S. Zeynep Alparslan Gök and G.-W. Weber, An axiomatization of the interval Shapley value and on some interval solution concepts, Contributions to Game Theory and Management, Volume VIII, July 2015, 243-251 (dedicated to The Seventh International Conference, Game Theory and Management, GTM2014, St. Petersburg, Russia, June 25-27, 2014).
  - E. Kürüm, G.-W. Weber and C. Iyigün, Early-Warning Signaling on Stock

- Market Bubbles by Mathematical Methods, book of extended abstracts / proceedings of SING11-GTM2015, European Meeting on Game Theory, St. Petersburg State University, St. Petersburg, Russia, July 8-10, 2015, 127.
- A. Karimov, E. Kürüm and G.-W. Weber, Detecting Stock Market Bubbles via Derivative Markets, book of extended abstracts / proceedings of SING11-GTM2015, European Meeting on Game Theory, St. Petersburg State University, St. Petersburg, Russia, July 8-10, 2015, 131.
  - G.-W. Weber, E. Savku and N.S. Aydin, A New Contribution to Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps - with Applications in Finance, Economics and Science, in Proceedings of the 13th International Symposium on Operational Research - SOR '15, The 13th International Symposium on Operations Research in Slovenia, September 23-25, 2015, Bled, Slovenia, L. Zadnik Stirn et al. (eds.) (2015) 7.
  - E.V. Ravve, Z. Volkovich and G.-W. Weber, A Uniform Approach to Incremental Automated Reasoning on Strongly Distributed Structures, EPiC Series in Computer Science — GCAI 2015. Global Conference on Artificial Intelligence, Series: EasyChair Proceedings in Computing, Volume number: 36 (December 2015) 229-251; editors: G. Gottlob, G. Sutcliffe and A. Voronkov (in the proceedings of 1st Global Conference on Artificial Intelligence (GCAI 2015), Tbilisi State University, Georgia, October 16-19, 2015).
  - E.V. Ravve, Z. Volkovich and G.-W. Weber, Incremental Reasoning on Strongly Distributed Multi-Agent Systems, Proceedings of the 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE (IEEE PDF eXpress), 978-1-5090-0461-4/16 (2016) 415-422; DOI 10.1109/SYNASC.2015.68. (At the occasion of 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, West University of Timisoara, Timisoara, Romania, September 21-24, 2015; “Certified by IEEE PDF eXpress”, with an exact date and time stamp.)
  - E.V. Ravve, Z. Volkovich and G.-W. Weber, Automatic definition of optimal default parameters of models: Image Matting Application, Proceedings of the 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE (IEEE PDF eXpress), 978-1-5090-0461-4/16 (2016) 251-254; DOI 10.1109/SYNASC.2015.47. (At the occasion of 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, West University of Timisoara, Timisoara, Romania, September 21-24, 2015; “Certified by IEEE PDF eXpress”, with an exact date and time stamp.)
  - G.-W. Weber, C.S. Pedomallu, L. Özdamar, H. Akar and H. Mawengkang, Analyzing and controlling the factors influencing the quality of primary education in developing countries, in: Advances in Simulation-Based Decision Support & Business Intelligence, Volume VI, M. Kljajic and G.E. Lasker, published by The International Institute for Advanced Studies in Systems Research and Cybernetics (IIAS) 6-10 (at the occasion of the 28th Interna-

tional Conference on Systems Research, Informatics and Cybernetics, August 1-5, 2016, Baden-Baden, Germany).

- S. Kuter, Z. Akyürek and G.W Weber, Estimation of Subpixel Snow-Covered Area by Nonparametric Regression Splines, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, XLII-2/W1, 31-36, doi: 10.5194/isprs-archives-XLII-2-W1-31-2016.
- Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Çok Değişkenli Uyarlanabilir Regresyon Eğrilerinin Ters EKG Problemine Uygulanması — Application of Multivariate Adaptive Regression Splines for Inverse ECG Problem, in the proceedings of BIYOMUT 2016 - XX. Biyomedikal Mühendisliği Ulusal Toplantısı, Izmir, Seferhisar, November 3-9, 2016, H. Olfaz, ed., 91-95.
- O.N. Onak, Y. Serinagaoglu Dogrusöz and G. W. Weber, Effect of the Geometric Inaccuracy in MARS-based Inverse ECG Solution Approach, extended abstract, in: Computing Cardiology 2017 Conference, Rennes, France, September 24-27, 2017.

## 2.6 Theses

(on Thesis Supervision please cf. 3.2)

- G.-W. Weber, *Optimale Kontrolle gewöhnlicher Differentialgleichungen mit periodischen Randwertproblemen – Methoden der konvexen Analysis und des Abbildungsgrades*, diploma thesis, Faculty of Mathematics and Science at RWTH Aachen (Aachen University of Technology of Rhineland and Westphalia), 1986.
- G.-W. Weber, Charakterisierung struktureller Stabilität in der nichtlinearen Optimierung, doctoral thesis at Faculty of Mathematics and Sciences at RWTH Aachen (Aachen University of Technology of Rhineland and Westphalia); appeared as book in Aachener Beiträge zur Mathematik 5, eds: H.H. Bock, H.Th. Jongen and W. Plesken, Augustinus publishing house (now: Mainz publishing house) Aachen, 1992.
- G.-W. Weber, Generalized Semi-Infinite Optimization and Related Topics, habilitation thesis at Department of Mathematics at TU Darmstadt (Darmstadt University of Technology); appeared as book in Heldermann publishing house, Research and Exposition in Mathematics 29, Lemgo, eds: K.H. Hoffmann and R. Wille, 2003.

## 2.7 Bulletin Reports and Tutorials

- W. Domschke, S. Pickl and G.-W. Weber, „... es warten noch viele mathematische Probleme auf Sie“, report about the conference „Mathematische Modellierung und Optimierung“ at the occasion of the retirement of Professor Werner Krabs, OR-News 7 (1999) 18-19.
- G.-W. Weber, „Optimierung ist wichtig!“, report about Workshop „Smooth and Nonsmooth Optimization – Theory and Applications“, OR-News 13

(2001) 68-69.

- F. Jarre, B. Karasözen, A. Rubinov, T. Terlaky and G.-W. Weber, ... *Optimization is Coming Home ...* - Scientific Insights and Outlooks on Isle of Sun, Rhodes, Report about EUROPT *Workshop on Challenges of Continuous Optimization in Theory and Applications*, July 2-3, 2004, Rhodes, Greece, Optimization Research Bridge (ORB; Pacific Optimization Research Activity Group) 15 (September 2004).
- G.-W. Weber, ... *Optimization is Coming Home ...* - Wissenschaftliche Ein- und Ausblicke auf der Sonneninsel Rhodos - Bericht über den EUROPT *Workshop on Challenges of Continuous Optimization in Theory and Applications*, 2.-3. Juli 2004, Rhodos, Griechenland, OR-News (German OR Society) 22 (November 2004) 54-56.
- G. Wäscher and G.-W. Weber, Was hat Sie eigentlich nach Ankara „verschlagen“, Herr Weber?, interview by Gerhard Wäscher, president of German Operations Research Society (GOR), OR-News 23 (März 2005) 71-74.
- G.-W. Weber, ... *Hungary ... , csok, csok!* - Wissenschaftlicher Austausch und Zukunftsimpulse aus dem Herzen Europas - Bericht über die 17. EURO Mini-Konferenz *Continuous Optimization in the Industry*, 29. Juni - 1. Juli 2005, Pécs, Ungarn, OR-News 25 (German OR Society) 69-71.
- G.-W. Weber, *Book Review – Bernt Oksendal and Agnes Sulem (2005), Applied Stochastic Control of Jump Diffusions, ISBN 3-540-14023-9, Springer Berlin*, Math. Meth. Oper. Res. 62, 2 (2005) 345-346.
- G.-W. Weber, ‘ - “*Welcome to Prague!*” - Scientific Exchange and Friendship in the Golden City of Prague, Report about Joint EUROPT-OMS Conference - 2nd Conference on Optimization Methods & Software and 6th EUROPT Workshop on Advances in Continuous Optimization, July 4-7, 2007, Prague, Czech Republic, OR News 31 (2007) 60-62.
- L. Sakalauskas and G.-W. Weber, Herzlich Willkommen an Kurischer Nehrung und Kurischem Haff, Modern OR Where Thomas Mann Loved to Spend Times of (Re-) Creation, EUROPT-2008 — 20th Mini EURO Conference “Continuous Optimization and Knowledge-Based Technologies”, May 20-24, 2008, Nida, Neringa, Lithuania, in OR-News 34 (German OR Society) (2008) 88-89.
- G.-W. Weber, Scientific workshops in honour of Professor Hayri Körezlioglu, report about Workshop “Recent Developments in Financial Mathematics and Stochastic Calculus”, April 25-26, 2008, and the Pre-Workshop Seminar Series Workshop “The Simulation Tool Box for the Financial Engineer”, April 23-24, 2008, OR-News 34 (German OR Society) (2008) 80-81.
- N. Cummings, EURO XXIII, One of the highlights at this year’s OR conference was a presentation and call for papers and attendees to EURO XXIII, by Gerhard Wilhelm-Weber, German Operational Research society, Inside

- O.R. (The OR Society of the United Kingdom), 15th October 2008.
- G.-W. Weber, Workshop “Recent Developments in Applied Probability and Statistics” in Honour of Professor Jürgen Lehn, METU, Ankara, Turkey, April 23-24, 2009, OR-News 35 (March 2009) 65-66.
  - Z. Kalaylıoğlu and G.-W. Weber, Scientific Workshop and Seminar Series in Memory of Professor Jürgen Lehn, “Workshop on Recent Developments in Applied Probability and Statistics” , and the Pre-Workshop Seminar Series “Asset Liability Models for Life Insurances” (Ankara, Turkey, April 23-24 and April 22, 2009, respectively), OR-News 36 (German OR Society) (May 2009) 80-82.
  - G.-W. Weber, EURO XXIII 2009 Conference “OR Creating Competitive Advantage” and “Der Kongress tanzt” — Report about 23rd European Conference on Operational Research, July 5-8, 2009, in Bonn, Germany, OR-News 37 (German OR Society) (November 2009) 27-32.
  - H. Smith, C.S. Pedamallu and G.-W. Weber, Report on “A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium”, July 4, 2009, RheinAhr Campus, Remagen, Germany, OR-News 37 (German OR Society) (November 2009) 74-75.
  - D. DeTombe and G.-W. Weber, Report State of the Art Workshop Societal Complexity 2009, July 5, 2009, RheinAhr Campus, Remagen, Germany, OR-News 37 (German OR Society) (November 2009) 76-77.
  - H. Lenze, Von Wemlighausen an den Bosphorus, in der Serie: Wittis in der Welt, Westfalenpost, part on Wittgensteiner Land, March 26 (based on an interview with G.-W. Weber).
  - C. Rave, G.-W. Weber and E. del Rosario, The EURO Working Group on OR in Development (EWG ORD) — A Report from the Young Researchers PhD Symposium EURO XXIV, Lisbon, Portugal IFORS News 4, 3 (September 2010) 8.
  - C. Rave, G.-W. Weber and E. del Rosario, Euro Working Group on Operational Research for Development (EWG ORD), A Report from the ALIO-INFORMS Joint International Meeting, IFORS News 4, 3 (September 2010) 9.
  - C. Rave and G.-W. Weber, EURO ORD Workshop on OR for Developing Countries - Young Researchers PhD Symposium - Euro Working Group on Operational Research for Development, EWG ORD, Experience Report, OR for Development and Developing Countries at EURO XXIV, Lisbon, Portugal, July 10, 2010, OR-News 40 (German OR Society) (November 2010) 64-65.
  - C. Rave and G.-W. Weber, OR for Development and Developing Countries at ALIO-INFORMS Joint International Meeting, Buenos Aires, Argentina, June 6-9, 2010 — Experience Report, OR-News 40 (German OR Society)

(November 2010) 66-67.

- G. Gallo, A. Hohenberger and G.-W. Weber, OR 2010 in Munich Features OR in Life Sciences and Education, IFORS News 4, 4 (December 2010) 5, and
- ... in the Newsletters of the EURO Working Groups on Ethics and OR, OR for Development, at the homepages of the EURO Working Groups EUROPT and Methodology of Complex Societal Problems and of AIRO (Italian OR Society).
- I. Korotchenko, K. Pereverza, A. Pasichny and G.-W. Weber, Summer School in Kiev Learn More About IFORS, IFORS News 4, 4 (December 2010) 15.
- E. Kropat, Z. Volkovich and G.-W. Weber, Selected Papers from the EURO Conference, Stochastic Modeling and Simulation - Problems, Trends, and Perspectives, IFORS News 4, 4 (December 2010) 16-18.
- X. Sun and G.-W. Weber, EUROPT Participates in ICOTA 8, IFORS News 4, 4 (2010) 16.
- I. Korotchenko, K. Pereverza, A. Pasichny and G.-W. Weber, AACIMP: Benefits - Results - Opportunities, August 5-15, 2010, NTUU “KPI”, Kiev, Ukraine, OR News (German OR Society) 41 (March 2011) 28-29.
- A. Vasin and G.-W. Weber, ORM-2010 in Moscow, VI Moscow International Conference on Operations Research, OR News (German OR Society) 41 (March 2011) 30.
- A. Vasin and G.-W. Weber, Russian and Foreign Delegates Converge at Triennial OR Moscow Conference, IFORS News 5, 1 (March 2011) 4-5.
- X. Sun and G.-W. Weber, Report on ICOTA 8, 8th International Conference on Optimization: Techniques and Applications, Shanghai, China, December 10-13, 2010, in OR-News 41 (German OR Society) 41 (March 2011) 36-37.
- E. Kropat, Z. Volkovich and G.-W. Weber, EURO XXIV, The stream “Stochastic Modeling and Simulation” - Problems, Trends, Perspectives, Lisbon, Portugal, July 10, 2010, OR-News 41 (German OR Society) (March 2011) 56-60.
- C. Dincer, R. Kasimbeyli and G.-W. Weber, OR in Finance Tackled in 24th Mini-EURO Conference, IFORS News 5, 1 (March 2011) 5.
- A. Gökmen, I. Gökmen and G.-W. Weber, Balaban Valley Project - Sustainable Living in a Rural Area of Turkey, OR for Development - A Contribution to Better Living Conditions, OR News (German OR Society) 42 (July 2011) 16-17.
- Webmaster of Homepage of Universitas Sumatera Utara, Medan, Indonesia, Kunjungan Middle East Technical University (METU) Ankara Ke USU, August 2, 2011, at the occasion of visit of Universitas Sumatera Utara by G.-W. Weber, welcome in Rector’s Office at July 30, 2011;

<http://www.usu.ac.id/pokok-berita/1511-kunjungan-middle-east-technical-university-metu-ankara-ke-usu.html>.

- I. Batubara and G.-W. Weber, Asian Meets European OR at InteriOR 2011, IFORS News 5, 3 (September 2011) 4.
- K. Pereverza, I. Borshch and G.-W. Weber, AACIMP Kiev Summer School Features OR for the First Time, IFORS News 5, 3 (September 2011) 5.
- M. Gladkova and G.-W. Weber, Game Theory and Management Tackled in Saint Petersburg, IFORS News 5, 3 (September 2011) 5-6.
- D. Dorsch and G.-W. Weber, Reflections of an IFORS Conference First-Timer, IFORS News 5, 3 (September 2011) 8.
- G. Summers, F. Summers, S.T. Elias-Ozkan and G.-W. Weber, Improving Living Conditions in Rural Anatolia: OR Meets Archaeology, Architecture and Engineering, IFORS News 5, 3 (September 2011) 20.
- A. Gökmen, I. Gökmen and G.-W. Weber, Balaban Valley Project : A Contribution to Better Living Conditions, IFORS News 5, 3 (September 2011) 22-23.
- M. Dushenok, B. Pukalsky and G.-W. Weber, Operational Research at Summer School AACIMP-2011 in Kiev: Fascinating Days of Education, Science and Friendship, IFORS homepage, Educational Resources.
- Z. Dzalilov, G.-W. Weber et al., International Federation of Operational Research Societies (IFORS) 2011 — Memorial Session in Honour of Professor Alex Rubinov, homepage side at CIAO, University of Ballarat: <http://guerin.ballarat.edu.au/ard/itms/CIAO/ifors/>, webmaster: E. Dekker.
- G. Summers, F. Summers, S.T. Elias-Ozkan and G.-W. Weber, The Kerkenes Eco-Center Project - OR Meets Archaeology, Architecture and Engineering for Science and the Improvement of Living Conditions in Rural Anatolia, OR News (German OR Society) 43 (November 2011) 10-12.
- M. Gladkova and G.-W. Weber, Report on The Fifth International Conference on Game Theory and Management in beautiful Saint Petersburg, Russia, OR News (German OR Society) 43 (November 2011) 48-49.
- K. Pereverza, I. Borshch and G.-W. Weber, Operational Research at Summer School AACIMP-2011 in Kiev: Fascinating Days of Education, Science and Friendship, OR News (German OR Society) 43 (November 2011) 50-51.
- M. Dushenok, B. Pukalsky and G.-W. Weber, Two Young Participants Impressions and Appreciation of Summer School AACIMP-2011 in Kiev, OR News (German OR Society) 43 (November 2011) 51.
- M.I. Batubara and G.-W. Weber, InteriOR 2011 - Where Asians Meet Friend(s) from European OR, OR News (German OR Society) 43 (November 2011) 52-53.
- D. Dorsch and G.-W. Weber, A Personal Report on Wonderful Days of IFORS



- in Melbourne, OR News (German OR Society) 43 (November 2011) 66-67.
- V. Shikhman and G.-W. Weber, Zurich: Perfect Setting for OR 2011, IFORS News 5, 4 (December 2011) 6-7.
  - J. Kuhuk, K. Pereverza, B. Pukalsky, M. Dushenok and G.-W. Weber, A Different Kind of A Summer School, IFORS News 6, 1 (March 2012) 12-13.
  - S. Ulusam Seckiner and G.-W. Weber, Antalya hosts the 25th Conference of European Chapter on Combinatorial Optimization, IFORS News 6, 2 (June 2012) 6-7.
  - K. Pereverza and G.-W. Weber, A Different Kind of A Summer School, OR News (German OR Society) 45 (July 2012) 52.
  - S. Ulusam Seckiner and G.-W. Weber, “Turkish Days” of Operational Research in Antalya, The 25th Conference on Combinatorial Optimization — A fascinating place for the ECCO’s Annual Conference in Combinatorial Optimization, OR News (German OR Society) 45 (July 2012) 78-79.
  - K. Bakhrankova and G.-W. Weber, EURO 2012 Highlights Role of OR in “Connecting Sciences”, IFORS News 6, 3 (September 2012) 8-10.
  - H. Smith and G.-W. Weber, Workshop Tackles Development Amid Economic Crises, IFORS News 6, 3 (September 2012) 13.
  - D. Yildirim, E. Gümüs and G.-W. Weber, Demystifying Mathematics, Enriching All, IFORS News 6, 3 (September 2012) 18.
  - N. Nikitina and G.-W. Weber, NGM 2012: A Learning and Networking Experience, IFORS News 6, 3 (September 2012) 19.
  - A. Ruziyeva and G.-W. Weber, Smoothly Run: Conference on Nonsmooth Optimization, IFORS News 6, 3 (September 2012) 19-20.
  - N. Nikitina and G.-W. Weber, Network Games and Management, Petrozavodsk, Russia, June 30 - July 2, 2012, OR News 46 (November 2012) 38.
  - K. Bakhrankova and G.-W. Weber, EURO XXV 2012 Conference OR Connecting Sciences, July 8-11, 2012, Vilnius, Lithuania, OR News 46 (November 2012) 56-59.
  - H. Smith and G.-W. Weber, OR for Developing Countries: Times of Economic, Vilnius, Lithuania, July 7, 2012, OR News 46 (November 2012) 60-61.
  - N. Nikitina and G.-W. Weber, “Gamers Descend on St. Petersburg, IFORS News 6, 4 (December 2012) 6.
  - D. Fishman, A. Pasichny, K. Pereverza, B. Pukalsky, I. Smolina and G.-W. Weber, Summer School in Kyiv: Successfully Promoting OR on its second of seven years, IFORS News 6, 4 (December 2012) 7.
  - N. Nikitina and G.-W. Weber, Game Theory and Management — A Fulfilled Time of Learning and Community in St. Petersburg, Russia, on Game Theory and Management - June 27-29, 2013, OR News 47 (March 2013) 31.

- D. Fishman, A. Pasichny, K. Pereverza, B. Pukalsky, I. Smolina and G.-W. Weber, Summer School in Kyiv — Successfully Promoting Science for the Seventh Year — The Seventh AACIMP Summer School was held in Kiev, Ukraine from August 3 to 16, 2012, OR News 47 (March 2013) 32-33.
- S. Jie and G.-W. Weber, EUROPT partners with the Pacific Optimization Research Activity Group, IFORS News 7, 2 (June 2013) 8.
- S. Jie and G.-W. Weber, POP - Pacific Optimization Research Activity Group a Partner of EUROPT and Collaborator with EURO and IFORS, OR News 48 (July 2013) 76-77.
- V. Shikhman and G.-W. Weber, EUROPT 2013 Revelations from Renaissance Florence, IFORS News 7, 3 (September 2013) 11.
- A. Rettieva and G.-W. Weber, The Seventh International Conference on Game Theory and Management, Success in St. Petersburg, IFORS News 7, 3 (September 2013) 12.
- E. Nababan and G.-W. Weber, Interior 2013 IFORS Commends InteriOR 2013 for Rallying Indonesian OR Community, IFORS News 7, 3 (September 2013) 12-13.
- N. Nikitina and G.-W. Weber, Networking and Games in White Nights, IFORS News 7, 3 (September 2013) 13-14.
- A. Gila Arrondo and G.-W. Weber, Linking Theory with Applications in Nonlinear Optimization, IFORS News 7, 3 (September 2013) 14-15.
- O. Nazarenko, K. Pereverza, A. Pasichny, D. Fishman and G.-W. Weber, Stream Tackles Facets of OR Education, IFORS News 7, 3 (September 2013) 15-16.
- A. Gila Arrondo and G.-W. Weber, Report of the it Workshop Nonlinear Optimization: a Bridge from Theory to Applications in beautiful Erice, Sicily, Italy, 2013, OR News 49 (November 2013) 36-37.
- A. Rettieva and G.-W. Weber, Days of Game Theory and OR in beautiful St. Petersburg — Report on the Conference GTM 2013, *VII International Conference "Game Theory and Management 2013*, OR News 49 (November 2013) 38-39.
- V. Shikhman and G.-W. Weber, *Renaissance Florence Welcomes OR at EUROPT 2013* — Report on the 11th Meeting of the Continuous Optimization Working Group of EURO, Florence, Italy, June 26-28, 2013, OR News 49 (November 2013) 49.
- E. del Rosario, E. Nababan and G.-W. Weber, The 2nd International Seminar on Operational Research (InteriOR 2013) - OR for Industry, Environment and Society, OR News 49 (November 2013) 51-52.
- E. Daylova and G.-W. Weber, From Russia, With Love for OR: The Seventh Moscow International Conference on Operations Research, IFORS News 7, 4

- (December 2013) 5.
- B. Pukalskyi, S. Yaremchuk, K. Pereverza and G.-W. Weber, Operational Research Stream: Better and Bigger at the 8th Annual Kiev Summer School, IFORS News 7, 4 (December 2013) 13-14.
  - D.P. Perales and G.-W. Weber, Account of a First Timer in A Kiev Summer School, IFORS News 7, 4 (December 2013) 14.
  - M.H. (Aslan) Yildirim and G.-W. Weber, Schäfer, Stefan. 2012. Global Optimization: A Stochastic Approach. Springer, 164 pp. \$ 99.00, 44, 1 (JanuaryFebruary 2014) 116-117.
  - S.-Y. Wu and G.-W. Weber, ICOTA 9, 9th International Conference on Optimization: Techniques and Applications, Taipei, Taiwan, December 12-16, 2013, From an Organizer's Viewpoint, OR News 50 (March 2014) 28-29.
  - Z. Zhu and G.-W. Weber, ICOTA9 in Taipei Impresses Young Dalian Researcher, IFORS News 8, 1 (March 2014) 2-3.
  - G.-W. Weber, New Beginnings in Historic Erzurum, IFORS News 8, 1 (March 2014) 4.
  - R. Cruz, A. Pinto and G.-W. Weber, Conference on Dynamics, Games and Science (DGS): Distinctly Golden and Scholarly, IFORS News 8, 2 (June 2014) 3-4.
  - T. Tchemisova, A. Freitas, A. Plakhov and G.-W. Weber, Optimization in the Natural Sciences: Aveiro Hosts 30th Mini Euro Conference, IFORS News 8, 2 (June 2014) 4-5.
  - A.S. Selcuk-Kestel and G.-W. Weber (invited "Fachbeitrag"), Actuarial Sciences and Operational Research: The Turkish Case, OR News 51 (July 2014) 10-13.
  - N. Shahraki and G.-W. Weber, "Workshop on Recent Advances in Stochastic Dynamics, Modeling and Optimization" - Research and Friendship, and the Spirit of Collaboration in our OR Family Worldwide, OR News 51 (July 2014) 35.
  - S. Martello, S. Özpeynirci, Ö. Özpeynirci and G.-W. Weber, ECCO XXVII - CO 2014, from contributed articles, IFORS News 8,3 (September 2014) 8-9.
  - J. Blazewicz, M. Szachniuk, N. Szostak and G.-W. Weber, Historic Venue for a Young Group of an Emerging field, IFORS News 8,3 (September 2014) 9-10.
  - M. Sandomirskaja and G.-W. Weber, The Conference on which the Sun Never Set, IFORS News 8,3 (September 2014) 10.
  - V. Shikhman, B. Jargalsaikhan and G.-W. Weber, EUROPT 2014: Recent Advances in a Medieval Setting, IFORS News 8,3 (September 2014) 10-11.
  - N. Shahraki and G.-W. Weber, Turkey Workshop Inspires Participants, IFORS

News 8,3 (September 2014) 11.

- G.-W. Weber, A response from the Editor of the IFORS Developing Countries OR Resources Website, IFORS News 8,3 (September 2014) 17.
- S. Kuter, G.-W. Weber and Z. Akyürek (invited Tutorial), OR for Remote Sensing, IFORS News 8,3 (September 2014) 23-25.
- M. Sandomirskaja and G.-W. Weber, GTM 2014 in Beautiful St. Petersburg - Days on Advanced Game Theory and Friendship - during the Season of White Nights, OR News 52 (November 2014) 43.
- B. Kjamili and G.-W. Weber, METU International Student Association - and First International Student Congress “International in Turkey”: a Sparkling Initiative for Education, Friendship and Community Service, OR News 52 (November 2014) 44-45.
- S. Özpeynirci, Ö. Özpeynirci and G.-W. Weber, ECCO XXVII - CO 2014 Joint Conference, OR News 52 (November 2014) 48-49.
- R. Cruz, A. Pinto and G.-W. Weber, International Conference: Dynamics, Games and Science - Days of Scientific Advances in Operational Research and of Celebration in Porto, Portugal, OR News 52 (November 2014) 62-63.
- T. Bajbar, V. Shikhman and G.-W. Weber, Revelations from Charlemagnes Medieval Capital, IFORS News 8, 4 (December 2014) 10.
- A. Sipahioglu and G.-W. Weber, OR2014 Strengthens German Turkish Bonds, IFORS News 8, 4 (December 2014) 11.
- K. Pereverza, L. Pavlenko, S. Yaremchuk, O. Nazarenko, O. Romanko and G.-W. Weber, Summer School Lets the Science In, IFORS News 8, 4 (December 2014) 13.
- G.-W. Weber and Z. Zhu, POC 2014: Sino-Japanese Meeting Gives Way to A Wider Asia-Pacific Conference in Wuxi, China, IFORS News 8, 4 (December 2014) 14.
- B. Kjamili and G.-W. Weber, Opening Doors to International Students, IFORS News 8, 4 (December 2014) 15.
- U. Reisach, D. DeTombe and G.-W. Weber, Past, Present and Future Aspects of International OR, IFORS News 8, 4 (December 2014) 22-23.
- T. Bajbar, V. Shikhman and G.-W. Weber, Report of OR 2014, the conference of the German Operations Research Society <http://www.or2014.de/> - Revelations from Charlemagne’s Medieval Capital, EUROPT Newsletter 31 (January 2015) 4-5.
- H. Merdan, S. Kaya Merdan and G.-W. Weber, Complex Dynamical Systems At Center Stage in Ankara, IFORS News 9, 1 (March 2015) 4.
- Y. Can and G.-W. Weber, Sharing Science, Engineering and OR in Antalya, IFORS News 9,1 (March 2015) 5-6.

- Y. Can and G.-W. Weber, Report on ICCESEN 2014 - An International Forum for Sharing Knowledge and Expertise in Science, Engineering and OR, OR News 53 (March 2015) 33.
- G.-W. Weber and Z. Zhu, Report on POC 2014 - The First Pacific Optimization Conference in Wuxi, China, OR News 53 (March 2015) 36-37.
- H. Merdan, S. Kaya Merdan and G.-W. Weber, Report on Complex Dynamical System - at Their International Stage at Hospitable Ankara, OR News 53 (March 2015) 38-39.
- M. Baldemor, D. Liu and G.-W. Weber, Report of the Joint ORSC/EURO 2015 International Conference on Continuous Optimization — Science and Friendship between China and Europe in OR, EUROPT Newsletter 32 (July 2015) 4-6.
- M. Zgurovsky, K. Yefremov, K. Ilchenko and G.-W. Weber, WDC-Ukraine Projects to foster Global Sustainable Development Supported by Operational Research, OR News 54 (July 2015) 34-35.
- M. Baldemor, D. Liu and G.-W. Weber, Science and Friendship between China and Europe in OR: Joint ORSC/EURO International Conference 2015 on Continuous Optimization, OR News 54 (July 2015) 52-53.
- L. Lotero, O. Kocadagli and G.-W. Weber, OR People Make EURO: Glasgow Hosts 27th EURO Conference, IFORS News 9, 3 (September 2015) 3-4.
- M. Baldemor, D. Liu and G.-W. Weber, Joint ORSC/EURO Conference Paves Way for East-West OR Collaboration, IFORS News 9, 3 (September 2015) 12.
- T. Bajbar, G.-W. Weber and O. Kocadagli, 13th EUROPT: Auld Reekie Blows Optimizers Away, IFORS News 9, 3 (September 2015) 10.
- M. Baldemor, E. Nababan, S. Ngatasi Sipetu and G.-W. Weber, INTERIOR 2015, OR News 55 (November 2015) 44.
- L. Lotero, O. Kocadagli and G.-W. Weber, “People made EURO” - A report of the 27th European Conference for Operational Research, OR News 55 (November 2015) 58-59.
- N. Kajiji, G. Dash and G.-W. Weber, EWG ORD - IFORS Workshop on OR for Development 2015 in Glasgow, OR News 55 (November 2015) 60-61.
- M. Baldemor, E. Nababan, S. Ngatasi Sitepu and G.-W. Weber, OR in Indonesia Continues to Take Root, IFORS News 9, 4 (December 2015) 6.
- K.J. Mizgier and G.-W. Weber, Optimal Decisions and Big Data in Historic Vienna, IFORS News 9, 4 (December 2015) 8.
- S. Yaremchuk, J. Kuhuk, L. Pavlenko, Y. Rud, K. Pereverza and G.-W. Weber, Growing OR with Help from the international Community, IFORS News 9, 4 (December 2015) 9.

- N. Kajiji, G. Gash and G.-W. Weber, A second look at Uplifting Living Conditions, IFORS News 9, 4 (December 2015) 12-13.
- S. Ergün, S.Z. Alparslan Gök, B.B. Kirlar and G.-W. Weber, Crypto Cloud Computing: Economical and Financial Aspects with Cooperative Game Theory, Tutorial, IFORS News 9, 4 (December 2015) 19-21.
- N. Yanar and G.-W. Weber, POP conference on Optimization and Control Held in South Central China, IFORS News 10, 1 (March 2016) 5.
- A. Mirzazadeh, Y. Karimian and G.-W. Weber, OR Conference in Iran: A First in Many Ways, IFORS News 10, 1 (March 2016) 6.
- N. Yanar and G.-W. Weber, Report of the International Conference on Optimization and Control with Applications (OCA 2015), EUROPT Newsletter 34 (March 2016) 12-13.
- N. Yanar and G.-W. Weber, Celebrating Optimization and Control with Applications in Beautiful Changsha, Hunan, China, OR News 56 (April 2016) 22-23.
- Y. Karimian, A. Mirzazadeh and G.-W. Weber, ICIE 2016 in Tehran, Iran, January 25-26, 2016, OR News 56 (April 2016) 24-25.
- T. Tchemisova and G.-W. Weber, A Workshop Worth its Salt, IFORS News 10, 2 (June 2016) 2.
- T. Tchemisova and G.-W. Weber, Celebrating “OR in the Modern World” in Aveiro, Portugal, OR News 57 (July 2016) 51.
- M.R. Baldemor and G.-W. Weber, Some Impressions about EURO 2016: A Pathway to Development, to appear in OR News.
- L. Lotero-Vélez, S.S. Ali and G.-W. Weber, EWG ORD: A Decade of Promoting Development, IFORS News 10, 3 (September 2016) 11-13.
- D. Kofjac, T. Jere Jakulin and G.-W. Weber, Baden: Immersion in Simulation, IFORS News 10, 3 (September 2016) 16.
- G.-W. Weber and M.R. Baldemor, ICOTA: Optimizers Troop to Ulaanbaatar, IFORS News 10, 3 (September 2016) 17-18.
- M.R. Baldemor and G.-W. Weber, EURO 2016: A Delegate’s Perspective, IFORS News 10, 3 (September 2016) 21.
- G.-W. Weber and M.R. Baldemor, Report of ICOTA 10: A window for research and development, EUROPT Newsletter36 (October 2016) 12-13.
- L. Lotero-Vélez, S.S. Ali and G.-W. Weber, Highlighting a Decade of Work on OR for Development: EWG ORD - EURO ORD Workshop on OR for Development in Poznan, Poland, OR News 58 (December 2016) 42-43.
- D. Kofjac, T. Jere Jakulin and G.-W. Weber, The 6th Symposium on Simulation Based Decision Support and Business Intelligence, OR News 58 (December 2016) 44-45.

- G.-W. Weber and M.R. Baldemor, A window for research and development: ICOTA 10 - The 10th International Conference on Optimization: Techniques and Applications, OR News 58 (December 2016) 46.
- Z. Kamisli Öztürk and G.-W. Weber, OR: Sharing the Stage at a Science Conference, IFORS News 10, 4 (December 2016) 7.
- N. Yapici Pehlivan, D. Türsel Eliyi and G.-W. Weber, OR 2016: Building Bridges to Better Decisions, IFORS News 10, 4 (December 2016) 8.
- G.-W. Weber, Entrevista, Boletim APDIO, 55:3-4 (December 2016) (Interview with APDIO (Portuguese OR Society), in Semester Report, bulletin of APDIO).
- G.-W. Weber, On a visit to for universities in Japan and Taiwan in 2016, with **Video** *Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments*, coauthors: E. Savku, Y. Yolcu-Okur and A.S. Kestel, formatted by G. Kara, IAM, METU, in EUROPT Newsletter (January 2017).
- G.-W. Weber, 2016 Video lecture in Japan Kansai University: *Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments*, at Euro Working Group MSC - Methodology of Societal Complexity publications: Publications of Prof Dr. Wilhelm Weber (<http://www.complexitycourse.org/mscpulicationweber.html>) (January 2017).
- G.W. Weber and E. Savku, Optimal Control in Economics and Finance, video published at Youtube (<https://youtu.be/Lwhrh7HzbpA>) and METU International Student Association - ODTU Internationals - MISA/Oi (facebook).
- M.R. Baldemor, M. Ramli and G.-W. Weber, Report of SIMANTAP 2016 - SIMANTAP 2016 in Medan, Sumatra: A Window for OR in Indonesia, EUROPT Newsletter 37 (January 2017) 11-12.
- Z. Kamisli Öztrk and G.-W. Weber, Report of ICCESEN 2016 - Connections of Science, Engineering and Operational Research in Times of “Big Data” - Elaborated and Discussed at ICCESEN 2016 in Antalya, Turkey, EUROPT Newsletter 37 (January 2017) 13-14.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments, Video, EUROPT Newsletter 37 (January 2017) 17.
- M.R. Baldemor, M. Ramli and G.-W. Weber, Keeping Mathematics and OR Alive in Indonesia, IFORS News 11, 1 (March 2017) 14-15.
- G.-W. Weber, Visit to Japan in 2016: Scientific Presentations and Welcome to IFORS 2017 and EURO 2018, at International Working Group MSC - Methodology of Societal Complexity (<http://www.complexitycourse.org/weberVisit>)

- M.R. Baldemor, M. Ramli and G.-W. Weber, SIMANTAP 2016 in Medan, Sumatra: A Window for OR in Indonesia, OR News 59 (March 2017) 19.
- M. Baldemor and G.-W. Weber, Report of ICEST 2017 — ICEST: a synergy for multi-disciplinary and OR-related research in Indonesia, EUROPT Newsletter 38 (May 2017) 13-14.
- M. Baldemor and G.-W. Weber, The Philippine Statistical Association, Inc. (PSAI) Operational Research (OR) Partner in Development, OR News 60 (July 2017) 13.
- G.-W. Weber, Visit to Japan in 2016: Scientific Presentations and Welcome to IFORS 2017 and EURO 2018, OR News 60 (July 2017) 70-71.
- M. Baldemor and G.-W. Weber, The Philippine Statistical Association, Inc. (PSAI) Operational Research (OR) Partner in Development, to appear in EUROPT Newsletter 39 (September 2017).
- G.-W. Weber and M. Baldemor, IFORS 2017: Celebrating OR in Québec!, to appear in EUROPT Newsletter 39 (September 2017).
- G.-W. Weber and M. Baldemor, Triennial Strengthens International OR Ties Anew, IFORS News 11, 3 (September 2017) 2-3.
- E. Carrizosa and G.W. Weber, A First in the Americas - EUROPT Holds Workshop in Montral, IFORS News 11, 3 (September 2017) 6.
- G.-W. Weber, Workshop on Engineering and Mathematics Highlights OR Role, IFORS News 11, 3 (September 2017) 7.
- Member in Editorial Board of regular e-Newsletter of EUROPT (EURO Working Group on Continuous Optimization): until 2013.
- Editor of e-Newsletter of ORST (YAD; OR Society of Turkey) *On the “Life” in the German Operations Research Society GOR - a Partner of ORST.*
- IFORS News Correspondent — Regional Correspondent for EURO (of the newsletter IFORS News).
- G.-W. Weber, Short Articles (Reports) in
  - OR-News, German Operations Research Society, Germany; 2001);
  - ORB, Optimization Research Bridge der Pacific Optimization Research Activity Group; 2001, 2003;
  - Annual Report 2000 of ZAIK, Center of Applied Computer Science, Cologne (2001);
  - Annual Reports 2003-2004, 2004-2005, 2005-2006, 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010; and other reports for EUROPT, EURO Working Group on Continuous Optimization, and for EURO in 2002-2007.



## 2.8 Preprints and Papers Submitted for Publication

- S. Özögür, B. Karasözen and G.-W. Weber, Parameter estimation of enzymatic reactions with genetic algorithm, preprint at Institute of Applied Mathematics, METU, 2005.
- E.M.P. Quek, R. Sambanthamurthi and G.-W. Weber, Modelling of lipid biosynthesis pathways in oil palm, preprint at IAM of METU, 2005.
- I. Görgün and G.-W. Weber, Exploiting statistical learning in adaptive health informatics education, preprint at IAM of METU, 2005.
- S. Belen, E. Kropat and G.-W. Weber, Rumours within time dependent Maki-Thompson Model, Preprint No. 127, Institute of Applied Mathematics, METU, 2008.
- T. Paksoy, N.Y. Pehlican, E. Özceylan and G.-W. Weber, Fuzzy optimization of a multi stage multi item closed-loop flexible supply chain network under fuzzy material requirement constraints, preprint at IAM, METU.
- G.-W. Weber, I. Batmaz and A. Özmen, Robust conic quadratic programming - A robustification of CMARS, preprint at IAM, METU.
- E. Kropat and G.-W. Weber, Robust regression analysis for gene-environment and eco-finance networks under polyhedral and ellipsoidal uncertainty, preprint at IAM, METU, submitted for publication.
- K. Korenblat, Z. Volkovich and G.-W. Weber, Toward to Inverse Problem of Feature Selection for Microarray Data preprint at IAM, METU.
- V. Podobedov and G.-W. Weber, OR and Abstract Painting, report at IAM of METU (2012).
- L. Koshlai and G.-W. Weber, OR in Economy — With Special Emphasis to Economies in Transition — Dedicated to the Commemoration of Prof. Dr. Mikhail Mikhalevich, submitted to OR News and IFORS News.
- S. Belen Algümüs, E. Kropat and G.-W. Weber, Dynamical biological processes on evolutionary networks - dynamic networks and conjugation processes in microbiology, submitted to EJOR (European Journal on Operational Research).
- F. Yilmaz, H. Öz and G.-W. Weber, Ito-Taylor expansions for systems of stochastic differential equations with numerical applications, submitted to Annals of Operations Research.
- F. Basoglu, Z. Cavusoglu and G.-W. Weber, Predicting bubbles in the Turkish stock market with macroeconomic indicators - A comparison of logit regression, MARS and CMARS, working paper at IAM, METU.
- F. Yerlikaya-Özkurt and G.-W. Weber, Identification of stochastic differential equations by conic optimization of multivariate adaptive regression splines.
- R. Nibhani, A. Soffer, A. Mualem, Z. Volkovich, G.-W. Weber and Z. Frenkel,

Partitioning Protein Connectivity Networks using a K-Ladder connectivity algorithm.

- B. Akteke-Öztürk, G. Köksal and G.-W. Weber, Nonconvex Optimization of Desirability Functions Using Nonsmooth and Global Optimization Approaches.
- M.H. Yildirim, Ö. Türker Bayrak and G.-W. Weber, Wavelet Adaptive Regression Splines: a New Method for Day Ahead Electricity Prices Forecasting.
- S. Özögür Akyüz, G. Üstünkar and G.-W. Weber, Adapted Infinite Kernel Learning by Multi-Local Algorithm.
- M.H. Yildirim, E. Kalayci, A. Bebel Ismaila and G.-W. Weber, Stochastic Portfolio Optimization of Nigerian Electricity Market.
- O. Evkaya, K. Yildirak, A.S. Kestel and G.W. Weber, Optimization of Indemnity and Basis Risk Bounds in Index-based Insurance under Drought Risk, submitted to Environmental Modelling & Assessment.
- K.D. Ünlü, A.S. Selcuk-Kestel and G.-W. Weber, Economical Assessment of Carbon Emission under Growing GDP.
- B.Z. Temocin, A.S. Selcuk-Kestel and G.-W. Weber, Modification of Turkish Catastrophe Insurance Pool Rates for Managing the Earthquake Risk.
- Y. Yilmaz, A. Özmen and G.-W. Weber, Natural Gas Consumption Forecast with MARS and CMARS Models for Residential Users, submitted to Energy Economics.
- O. Palanci, S.Z. Alparslan-Gök, M.O. Olgun, S. Ergün and G.-W. Weber, Some grey solutions and an optimization algorithm on cooperative grey games, submitted to Optimization.
- S. Ergün, S.Z. Alparslan Gök, T. Aydoğan and G.W. Weber, Performance Analysis of a Cooperative Flow Game Algorithm in Ad Hoc Networks and a Comparison to Dijkstra's Algorithm, submitted to Journal of Industrial and Management Optimization (JIMO) .
- S.K. Roy, S. Midya, G.W. Weber and N.S. Aydin, Rough decision making approach for solving fuzzy multi-objective fractional programming and its application to fixed-charge transportation problem.
- S. Ergün, B.B. Kirlar, S.Z. Alparslan Gök and G.-W. Weber, A Game Theoretical Approach to Crypto Cloud Computing in Social Networks under Uncertainty, submitted to EURO Journal on Transportation and Logistics (EJT), special issue *Models and Methods for the Supply Chain and Logistics Management*.
- A. Calik, N. Yapici Pehlivan, T. Paksoy, I. Karaoglan and G.W. Weber, A Novel Interactive Fuzzy Programming Approach for Optimization of Allied Closed-Loop Supply Chains, submitted to International Journal of Computational Intelligence Systems.

- F. Yilmaz, H. Öz and G.W. Weber, Strong-Order Conditions of Symplectic Partitioned Runge-Kutta Method for Stochastic Optimal Control Problems, submitted to Applied Mathematics and Computation.
- R. Lotfi, G.-W. Weber, S.M.i Sajadifar and N. Mardani, Inter-correlated Demand in Multi-period Newsvendor Problem, submitted to Journal of Industrial and Management Optimization (JIMO).
- M. Pervin, S.K. Roy and G.-W. Weber, A two-warehouse inventory model with probabilistic demand and price discount on backorders under two levels of trade-credit policy, submitted to INFORMATICA.
- E. Kropat, S. Meyer-Nieberg and G.-W. Weber, Computational Networks and Systems - Homogenization of Variational Problems on Micro-Architected Networks and Devices, submitted to OMS (Optimization Methods and Software), the special issue at the occasion of ICCESSEN 2015, Antalya, Turkey.
- S.S. Ali, G.-W. Weber and A. Faiz, IFORSs and EWG ORDs Workshop 2016 in Poznan: Developing a Network for Solving Complex Problems of Improving Living Conditions on Earth, in Poznan, Poland, submitted to OR News.
- E.V. Ravve, Z. Volkovich and G.-W. Weber, A Logic-Based Approach to Incremental Reasoning on Multi-Agent Systems.
- S. Midya and S.K. Roy and G.-W. Weber, Multi-objective multi-item fixed-charge solid transportation problem under twofold uncertain environment solved, submitted to Neural Computing and Applications.
- G. Maity, N. Kotal, S.K. Roy and G.-W. Weber, Generalized modified search technique based on Fibonacci and Lucas methods.
- A. Kerimov, E. Kürüm and G.-W. Weber, Detecting Stock Market Bubbles via Illiquidity Premium in Derivative Markets, submitted to Inverse Problems in Science and Engineering (IPSE).
- S.Z. Alparslan Gök, S. Ergün, O. Palanci, S.Z. Alparslan Gök, S. Nizamoglu and G.-W. Weber, Sequencing grey games.
- E. Kropat and G.-W. Weber, Fuzzy Regression Analysis for Target-Environment Networks Prediction Strategies for Fuzzy Evolving Networks, submitted to Numerical Algebra, Control and Optimization (NACO), Special Issue related to 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran.
- S.Z. Alparslan Gök, S. Ergün, P. Usta and G.W. Weber, A Game Theoretical Approach to Emergency Logistics Planning in Natural Disasters, submitted to Bulletin of the Malaysian Mathematical Sciences Society.
- G. Kara, A. Özmen and G.-W. Weber, Stability Advances in Robust Portfolio Optimization under Parallelepiped Uncertainty, submitted to CEJOR.
- E. Ayyildiz, V. Purutcuoglu and G.-W. Weber, Advanced Construction of Complex Biological Networks via New Method LCMARS, submitted to EJOR,

the Special Issue *Extending the OR Horizons* at the occasion of EURO 2016 in Poznan, Poland.

- E.V. Ravve, Z. Volkovich and G.-W. Weber, Logic-based Approach to Incremental Reasoning on Strongly Distributed Streams, submitted to AI Communications, the Special Issue on Automated Reasoning.
- S. Moslemi, A. Mirzazadeh, G.-W. Weber and M.A. Sobhanallahi, Performance Evaluation and Prediction of Sustainable Pharmaceutical Supply Chain Using Neuro-AP-NDEA Model Based on Revised BSC under IFB-IER Uncertainty, submitted to EJOR.
- G.-W. Weber, Visit to Japan in 2016: Scientific Presentations and Welcome to IFORS 2017 and EURO 2018, submitted to IFORS Education Online Resources and EURO WG MSC.
- G. Maity, D. Mardanya, S.K. Roy and G.W. Weber, A novel approach for solving transportation problem under dual hesitant fuzzy environment, submitted to Soft Computing (SOCO).
- M. Pervin, S.K. Roy and G.W. Weber, Deteriorating inventory model of imperfect items with variable demand and shortages under trade-credit, submitted to RAIRO-Operations Research, the ROADEF 2017 Special Issue.
- H. Öz Bakan, F. Yilmaz and G.W. Weber, Minimal Truncation Error Constants for Symplectic Partitioned Runge-Kutta Method for Stochastic Optimal Control Problems, submitted to Journal of Computational and Applied Mathematics (JCAM).
- M. Pervin, S.K. Roy and G.W. Weber, An integrated inventory model with variable holding cost under two levels of trade-credit policy, submitted to Numerical Algebra, Control and Optimization (NACO), Special Issue related to 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran.
- E.V. Ravve, Z. Volkovich and G.W. Weber, Complexity Analysis of Incremental Reasoning on Multi-Agent Systems.
- Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Multivariate adaptive non-parametric reduced-order model for ill-posed linear inverse electrocardiography problem.
- F. Gharbalchi, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Optimized Reduced Leadset Selection, and Performance Assessment of Regularization Methods for Solving the Inverse Electrocardiography Problem, submitted to Applied Mathematical Modelling.
- S. Kuter, Z. Akyurek and G.-W. Weber, Retrieval of fractional snow covered area from MODIS data by multivariate adaptive regression splines, submitted to Remote Sensing of Environment.
- M. Baldemor and G.-W. Weber, ICEST: A Synergy for Multi-Disciplinary

and OR-Related Research in Indonesia, submitted to OR News.

- S. Kuter, B.B. Ciftci, P. Vasant and G.-W. Weber, Utilizing Artificial Neural Networks and Support Vector Machines for Fractional Snow Cover Mapping from Satellite Data.
- M. Baldemor and G.-W. Weber, The Philippine Statistical Association, Inc. (PSAI) - Operational Research (OR) Partner in Development, submitted to IFORS News.
- M. Pervin, S.K. Roy and G.W. Weber, Multi-item deteriorating two-echelon inventory model with price- and stock-dependent demand: A trade-credit policy, submitted to Journal of Industrial and Management Optimization (JI-MO).
- G.-W. Weber and M. Baldemor, “OR: Impacting Development” at Celebrated ICORD 2017, Québec City, Canada, submitted to OR News and EUROPT Newsletter.
- E. Carrizosa and G.W. Weber, EUROPT 2017 - Celebrating Continuous Optimization in Montréal, submitted to OR News and EUROPT Newsletter.
- G.-W. Weber and M. Baldemor, IFORS 2017: Celebrating OR in Québec!, submitted to OR News.
- G. Nalcaci, A. zmen and G.W. Weber, Long-Term Load Forecasting - Models Based on MARS, ANN and LR Methods, submitted to CEJOR.
- G.-W. Weber, Celebrating *Operational Research* as Market Place and Key-Technology in Workshop on Engineering and Mathematics, submitted to OR News and EUROPT Newsletter.
- S. Khalilpourazari, A. Mirzazadeh, G.-W. Weber and S.H.R. Pasandideh, A robust fuzzy approach for constrained multi-product Economic Production Quantity with imperfect items and rework process.

## 2.9 Further Contributions to Books and Special Issues

- Assistance in writing of the book  
G. Jank and H.Th. Jongen, *Höhere Mathematik I für Maschinenbauer*, Augustinus-Buchhandlung publishing house (now: Mainz publishing house) Aachen, 1990.
- Assistance in writing of the book  
G. Jank and H.Th. Jongen, *Höhere Mathematik II für Maschinenbauer*, Aachen Beiträge zur Mathematik 4, Augustinus-Buchhandlung publishing house (now: Mainz publishing house), Aachen, 1992.

### 3 Survey on Teaching Experience

#### 3.1 Own Responsible Courses<sup>4</sup>

- 1989/90** Substitution of lectures in *Analysis IV* (in Grundstudium<sup>5</sup>) and in *Optimierung A* (Hauptstudium<sup>6</sup>) at RWTH Aachen (University of Technology of Rhineland and Westphalia at Aachen)
- SS 1994** <sup>7</sup>Substitution of lectures in *Analysis II* (Grundstudium) at TH Darmstadt (Darmstadt University of Technology)
- WS 1994/95** <sup>8</sup>**Lecture** *Topologische Methoden in der Optimierung* at TH Darmstadt (Hauptstudium; L2)
- WS 1995/96** **Lecture** *Topologische Methoden in der Optimierung* at TH Darmstadt (Hauptstudium; L2)
- SS 1996** **Project-Proseminar II** at TH Darmstadt (e.g., mapping degree, elementary algebraic-topological investigations in optimization; Grundstudium, P2) with edition of a “readers” (report)
- WS 1996/97** **Lecture** *Mathematik for Human- und Sozialwissenschaftler* at TH Darmstadt (Grundstudium; L2+E2)
- SS 1997** **Seminar/lecture** *Werkstattgespräch Analysis* at TH Darmstadt (with advanced, but also with first years students and with guests; L2+S2) (workshop/colloquy, two meetings each week)
- WS 1997/98** **Lecture** *Einführung in die Diskrete Mathematik* at TU Darmstadt (Hauptstudium; L4+E2)
- SS 1998** **Seminar** *Werkstatt Diskrete Mathematik und Topologie* at TU Darmstadt (Hauptstudium; S2-4, two meetings each week) (workshop/project seminar)
- WS 1998/99** **Seminar** *Werkstatt Diskrete Mathematik und Topologie* at TU Darmstadt (Hauptstudium, also for interested students from Grundstudium; S2)
- SS 1999** **Lecture** *Analysis IV - Komplexe Funktionentheorie* (Grundstudium; L2+E2) and **Seminar** *Werkstatt Diskrete Mathematik und Topologie* (S2-4) at TU Darmstadt (Workshop/project seminar, two meetings each week; with Prof. Dr. W. Krabs and Dr. S. Pickl)
- WS 1999/2000** **Lecture** *Einführung in die Diskrete Mathematik* at TU Darmstadt (Hauptstudium; L4+E2) and **Seminar** *Werkstatt Diskrete Mathematik und Topologie* (S2) at

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<sup>4</sup> L: lecture, E: exercise, P: project, S: seminar; followed by numbers of hours / week

<sup>5</sup> first two years of study

<sup>6</sup> advanced study

<sup>7</sup> SS: summer semester

<sup>8</sup> WS: winter semester

- TU Darmstadt, Special topics: Higher complex analysis, mapping degree, at TU Darmstadt (two meetings each week; with Prof. Dr. W. Krabs and Dr. S. Pickl)
- SS 2000** **Lecture** *Analysis I* at TU Darmstadt (Grundstudium; L4+E2+T2) and  
**(Project) seminar workshop** *Semi-definite Optimierung, semi-infinite Optimierung - diskrete und topologische Strukturen und Anwendungen* (P2) at TU Darmstadt (with Prof. Dr. Ch. Herrmann and Dr. S. Pickl)
- WS 2000/01** **Substitution of a professor position (chair, “C4”)** in *Mathematical Institute at University of Cologne*;  
**Lecture** *Algorithmische Mathematik für Wirtschaftsinformatiker* (students of informatics in economy) (Grundstudium; L3+E2)
- SS 2001** **Substitution of a professor position (chair)** in *Faculty of Mathematics at University of Technology Chemnitz*;  
**Lecture** *Mathematische Optimierung in Finanzwirtschaft und Risikomanagement - diskrete, stetige und stochastische Optimierung bei Lebensversicherungen, Bausparverträgen und Portfolios* (Hauptstudium; L4+E2) and  
**(Project) seminar workshop** *Diskrete Tomographie und Verkehrsprobleme* (S2)
- WS 2001/02** Within the substitution of a professor position mentioned previously:  
**Lecture** *Einführung in die Diskrete Mathematik* (Hauptstudium; L4+E2) and  
**Lecture** *Mathematik III für Wirtschaftsinformatiker* (students of informatics in economy) (Grundstudium; L2+E1)
- SS 2002** Intensive mathematical supervision (L6+E4) of students of bioinformatics within of research projects “Bioinformatik 2001 plus – Molekulare Netzwerke in Organismen – Grundlagen und Anwendungen in Biotechnologie, Pharmazie und Medizin” (in *English*)
- Spring 2003** **Lecture** *Numerical Optimization* at IAM of METU, Ankara, (Graduate Course; E4+E1) (with Prof. Dr. B. Karasözen) and  
**Lecture and Seminar** *Scientific Programming* at IAM of METU, Ankara, (Graduate Course; L3+E/S2) (with Prof. Dr. B. Karasözen, Assoc. Prof. Dr. F. Özbüdak and Assist. Prof. Dr. A. Tiefenbach)
- Fall 2003/04** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);

- Lecture and Seminar** *Mathematical Modelling* (Graduate Course; L3+S2) (with Prof. Dr. M. Akhmet)  
and  
**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. B. Karasözen and MSc. G. Sagdicoglu)
- Spring 2004** **Lecture** *Numerical Optimization* at IAM of METU, Ankara, (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen);  
**Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);  
**Lecture and Seminar** *Scientific Programming – Introduction to Algorithms and Complexity* (Graduate Course; L3+S2) (with Dr. H. Öktem and Dr. Ö. Ugur)  
and  
**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. B. Karasözen, Dr. H. Öktem and MSc. G. Sagdicoglu)
- Fall 2004/05** **Lecture** *Data Mining, Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);  
**Lecture and Seminar** *Advanced Continuous Optimization* at IAM of METU, Ankara, (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen)  
and  
**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. B. Karasözen, Dr. H. Öktem and MSc. G. Sagdicoglu)
- Spring 2005** **Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen);  
**Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);  
**Lecture** *Introduction to Algorithms and Complexity* (Graduate Course; L3+E/S2) (with Dr. Ö. Ugur)  
and  
**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. A. Aytuna, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Dr. H. Öktem, MSc. G. Sagdicoglu and Dr. Ö. Ugur)
- Fall 2005/06** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);  
**Lecture and Seminar** *Advanced Continuous Optimization* at



IAM of METU, Ankara (Graduate Course; L/S4)

and

**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, MSc. S. Özögür, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

**Spring 2006**

**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen);

**Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);

and

**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Prof. Dr. V. Atalay, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, MSc. S. Özögür, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

**Fall 2006/07**

**Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1);

**Lecture** *Mathematical Modelling* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Assist. Prof. Dr. H. Öktem);

**Lecture and Seminar** *Advanced Continuous Optimization* at IAM of METU, Ankara, (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen); and

**Seminar** *on Computational Biology and Medicine* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

**Spring 2007**

**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1);

**Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);

and

**Seminar** *on Computational Biology, Medicine, Environment and Development* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Hayri Körezlioglu, Prof.

Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür,  
Dr. D. Sezer, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

**Fall 2007/08** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara, (Graduate Course; L4+E1);  
**Lecture and Seminar** *Advanced Continuous Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen); and  
**Seminar** *on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Assoc. Prof. Dr. T. Ergenc, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. D. Sezer, Dr. G. Sagdicoglu and Dr. Ö. Ugur)

**Spring 2008** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Assist. Prof. Dr. I. Ulusoy);  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) (with Dr. D. Sezer); and  
**Seminar** *on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. Devin Sezer and Dr. Ö. Ugur)

**Fall 2008/09** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Assist. Prof. Dr. Ö. İlk);  
**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1) (with Prof. Dr. B. Karasözen),  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Seminar** *on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Cand. PhD. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Cand. PhD. S. Özögür, Dr. Devin Sezer and Dr. Ö. Ugur)

**Spring 2009** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Gradua-

te Course; L4+E1) (with Assist. Prof. Dr. I. Ulusoy);  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4);  
**Lecture and Seminar** *Advanced Continuous Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) (with Prof. Dr. B. Karasözen) and  
**Seminar** *on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Assist. Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Dr. Devin Sezer and Assist. Prof. Dr. Ö. Ugur)

**Summer 2009** **Lecture** *Modern Operational Research and Its Mathematical Problems* at 4th Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics Kiev, Ukraine, August 5-16, 2009 (10 hours) (with MSc. Basak Akteke-Öztürk)

**Fall 2009/10** **Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1),  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Seminar** *on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. Özögür Akyüz, Dr. Devin Sezer, Assist. Prof. Dr. Ö. Ugur and Cand. PhD. A. Sariaydin)

**Spring 2010** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) and  
**Seminar** *on Applied Mathematics (Financial Mathematics, Economics, Human and Life Sciences)*, IAM, METU, (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. Azize Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Dr. Devin Sezer and Assist. Prof. Dr. Ö. Ugur)

- Summer 2010** **Lecture** *Modern Operational Research and Its Mathematical Problems - with an Emphasis on Financial Mathematics* at 5th Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics Kiev, Ukraine, August 3-15, 2010 (12 hours)
- Fall 2010/11** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1),  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Seminar** *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akhmet, Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assist. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand. PhD. A. Sariaydin and Prof. Dr. Martin Rainer)
- Spring 2011** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) and  
**Seminar** *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assoc. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand. PhD. A. Sariaydin and Prof. Dr. Martin Rainer)
- Fall 2011/12** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1);  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Seminar** *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assoc. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand., Assist. Pror. Dr. Yeliz Yolcu Okur, Cand. PhD. A. Sariaydin, Cand. PhD. N. Öztıp and Prof. Dr. Martin Rainer)
- Winter 2011/12** **Lecture** *On Portfolio Optimization and Financial Modelling*

*under Various Assumptions on Time-Dependence: Foundations and Recent Achievements under Hybrid Stochastic Systems* at 1st Winter School on Stochastic Dynamics and Control in Finances and Economics ISEG, the Economics and Business School, Technical University of Lisbon, Portugal January 16-20, 2012 (5 hours)

- Spring 2012** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1);  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L/S4) and  
**Seminar** *on Industrial and Applied Mathematics* (main organizer; coorganizers: Prof. Dr. M. Akkaya, Dr. S.Z. Alparslan-Gök, Prof. Dr. V. Atalay, Cand. PhD. T. Bali, Assoc. Prof. Dr. T. Can, Prof. Dr. A. Gökmen, Assoc. Prof. Dr. A. Hayfavi, Prof. Dr. M. Iscan, Prof. Dr. B. Karasözen, Prof. Dr. Z. Ögel, Assist. Prof. Dr. H. Öktem, Dr. S. Özögür Akyüz, Assist. Prof. Dr. Devin Sezer, Assoc. Prof. Dr. Ö. Ugur, Cand. PhD. N. Noztop and Prof. Dr. Martin Rainer)
- Summer 2012** **Lecture** *Financial Mathematics. Related Aspects of Environment, Education and Development* at 7th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics Kiev, Ukraine, August 3-15, 2012 (10 hours)
- Fall 2012/13** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1; with Prof. Dr. Saziye Gazioğlu); and  
**Lecture** *Advanced Mathematical Methods in Finance* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2013** **Lecture** *Financial Economics* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Summer 2013** **Lecture** *Financial Mathematics. Related Aspects of Environment, Education and Development* at 8th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, AACIMP-2013, Kiev, Ukraine, August 1-17, 2013 (10 hours)
- Fall 2013** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2014** **Lecture** *Financial Economics* at IAM of METU, Ankara (Graduate Course; L4+E1); and

- Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Summer 2014** **Lecture** *Financial Mathematics. Related Aspects of Environment, Education and Development* at 9th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, AACIMP-2013, Kiev, Ukraine, August 1-15, 2014 (8 hours)
- Fall 2014** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2015** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Summer 2015** **Lecture** *Smart Cities: Operational Research, Energy and Urbanistics* at 10th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, AACIMP-2013, Kiev, Ukraine, August 4-18, 2015 (4+2 hours)
- Fall 2015** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Spring 2016** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1)
- Fall 2016** **Lecture** *Statistical Learning and Simulation* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Lecture** *Numerical Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1; with Prof. Dr. Bülent Karasözen)
- Spring 2017** **Lecture** *Inverse Problems* at IAM of METU, Ankara (Graduate Course; L4+E1); and  
**Lecture** *Portfolio Optimization* at IAM of METU, Ankara (Graduate Course; L4+E1)

### 3.2 Further Supervision

Besides the responsible activities/lectures listed in 3.1, I also guided the **exercises** of a number of further courses of *Grundstudium*:

- *Analysis*
- *Höhere Mathematik für Elektrotechniker and Wirtschaftselektrotechniker* (very large course)
- *Höhere Mathematik für Maschinenbauer* (very large courses)

- *Lineare Algebra für Physiker*
- *Numerische Algorithmen für Informatiker und Wirtschaftsinformatiker*

at RWTH Aachen or TU (TH) Darmstadt, and in the course of *Hauptstudium*:

- *Einführung in die Diskrete Mathematik* (WS 1998/99, TU Darmstadt).

Furthermore, I collaborated in

- *Interdisziplinären Modellierungssseminar* (WS 1993/94, 1994/95, TH Darmstadt)

and supervised many students with their advanced works. I started this activity in 1988-1992 as a scientific coworker at RWTH Aachen. During my Darmstadt years as a scientific coworker and assistant (since 1993), my responsibility for **diploma theses, state examination theses** (final works of candidates for the teaching profession), **MSc. theses**, etc., increased.

At last, the following works were finished under my supervision (chronologically listed):

- Marion Möller, *Das Travelling Salesman Problem: Moderne Entwicklungen angewandt auf ein klassisches Problem der Diskreten Mathematik*, state examination thesis at Department of Mathematics at TU Darmstadt, 1998.
- Samara Shahin, *Crew-Management im Bahnverkehr - Diskrete Optimierungsverfahren dargestellt am Beispiel der italienischen und deutschen Bahn*, diploma thesis in Department of Mathematics at TU Darmstadt, 1998.
- Andreas Rößler, *Das Piano Mover Problem*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Sylvia Welisch, *Ausgewählte Färbungsprobleme und deren Behandlung mit modernen Methoden der Diskreten Mathematik*, state examination thesis in Department of Mathematics at TU Darmstadt, 1999.
- Sermin Bozkuş, *Methoden der Diskreten Optimierung in der Planung des Crew-Einsatzes beim Bahn- und beim Luftverkehr*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Erik Kropat, *Fuzzy-Unabhängigkeitstheorie und Fuzzy-Matroiden*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999; appeared in: Wissenschaftlicher Verlag Berlin, 2002.
- Markus Möller, *Einige Bemerkungen zur Theorie der semidefiniten Optimierung*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.

- Sascha Ahner, *Moderne Methoden der Diskreten Mathematik in der Planung eines Eisenbahnnetzes*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Nina Diergardt, *Optimale Ressourcenverteilung auf Brücken eines Eisenbahnnetzes zur Erhöhung der Erdbebenzuverlässigkeit - Anwendungen der modernen diskreten Mathematik*, diploma thesis in Department of Mathematics at TU Darmstadt, 1999.
- Wiebke Dewald, *Moderne Methoden der Diskreten Mathematik eingesetzt zum Datenschutz bei der Veröffentlichung von Statistiken in Tabellen*, diploma thesis in Department of Mathematics at TU Darmstadt, 2000.
- Jens Lang, *Mathematische Methoden der Kryptographie mit Hilfe der Komplexitätstheorie*, diploma thesis in Department of Mathematics at TU Darmstadt, 2000.
- Petra Fakler, *Moderne analytische und diskret-mathematische Methoden, angewendet auf Probleme der Kanalvergabe in Mobilfunknetzen*, state examination thesis in Department of Mathematics at TU Darmstadt, 2000.
- Andreas Barth, *Das diskrete Optimierungsproblem der kürzesten Wege in Netzwerken und seine modernen Algorithmen im theoretischen und praktischen Vergleich*, diploma thesis in Department of Mathematics at TU Darmstadt, 2001.
- Martin Friedemann, *Analyse des Erfolgspotentials der Personalwerbung über das Internet und Untersuchung des Personalauswahlproblems mit Hilfe der Graphen-/ Matchingtheorie unter besonderer Berücksichtigung eines großen Versorgungsunternehmens in den neuen Bundesländern*, diploma thesis at Faculty of Mathematics at TU Chemnitz, 2002.
- Ute Möller, *Untersuchung und funktionale Implementierung des Verkehrsaufkommens auf Autobahnen zum Zwecke der Verkehrsleitung mit Hilfe der Diskreten Mathematik und der numerischen Signaltheorie*, diploma thesis at Department of Mathematics at TU Darmstadt, 2002.
- Andreas Ettl, *Moderne mathematische Methoden zur Lösung von Alignment- und Mustererkennungsproblemen in der Bioinformatik*, diploma thesis at Department of Mathematics at TU Darmstadt, 2002.
- Jose Augusto Amgarten Quitzau, *A Distance-Based Approach to Assign and Visualize Relatedness between Sequence-Based Phylogenetic Trees*, concluding thesis-report in the framework of postgraduate studies at Cologne University Bioinformatics Center (CUBIC) of University of Cologne, 2003 (supervision with Prof. Dr. Ulrich Faigle, Dipl.-Math. Jutta Gebert and Dr. Röbbke Wünschiers).



- Emily Quek Ming Poh, *Mathematical Modelling and Implementation of a Path-Finding Algorithm for a Problem in Genetic Networks*, concluding thesis-report in the framework of postgraduate studies at Cologne University Bioinformatics Center (CUBIC) of University of Cologne, 2003 (supervision with Dipl.-Math. Jutta Gebert, Dipl.-Math. Martin Lätsch and Dipl.-Math. Alexander Schönhuth).
- Thomas Wiebringhaus, *Protein Fold Prediction Using Neural Networks Reconsidered*, concluding thesis-report in the framework of postgraduate studies at Cologne University Bioinformatics Center (CUBIC) of University of Cologne, 2003 (supervision with Dipl.-Math. Jutta Gebert, Dipl.-Inf. Christian Igel and Prof. Dr. Dietmar Schomburg).
- Elena Dalinger, *Aktuelle Fragestellungen der Diskreten Tomographie und ihre komplexitätstheoretische Behandlung*, Diplomarbeit am Fachbereich Mathematik der TU Darmstadt, 2003.
- Martin Lätsch, *Distance between Strings and Its Application to Amino Acid Sequences*, diploma thesis at Faculty of Mathematics at TU Chemnitz, 2003 (supervision with Prof. Dr. Bernd Luderer).
- Frank Thierolf, *Mathematische Modelle und Methoden zur Genexpressionsanalyse in der Bioinformatik*, diploma thesis at Department of Mathematics at TU Darmstadt, 2003.
- Michael Pöhner, *Petri-Netze als mathematisches Werkzeug zur Prozesssteuerung - Das Resultat eines graphentheoretischen Ansatzes*, diploma thesis at Department of Mathematics at TU Darmstadt, 2004.
- Fatma Bilge Yilmaz, *Mathematical Modelling and Approximation of Gene Expression Patterns and Gene Networks*, MSc. Thesis at Institute of Applied Mathematics der METU, Ankara, 2004.  
This work got a *Best Thesis Award of METU* in 2005.
- Elena Bekhman, *Analyse und Konstruktion eines mathematischen Algorithmus für die Untersuchung der Stabilität dynamischer Systeme*, diploma thesis at Institute for Mathematics at University of Cologne, 2004.
- Süreyya Özögür, *Mathematical Modelling of Enzymatic Reactions, Simulation and Parameter Estimation*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2005 (with Prof. Dr. Bülent Karasözen).  
This thesis was published as a book in VDM Verlag Dr. Müller e.K., ISBN 978-3-639-13153-6.
- Aysun Tezel, *Smooth and Nonsmooth Newton Methods for Solving Semi-Infinite Programming*, MSc. Thesis at Department of METU, Ankara, 2005 (with Prof. Dr. Bülent Karasözen).

- Basak Akteke, *Derivative Free Optimization Methods: Application in Stirrer Configuration and Data Clustering*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2005 (with Prof. Dr. Bülent Karasözen).
- Hale Taskin Ince, *Analysis of Bauspar System and Model Based Clustering with Hidden Markov Models*, MSc. Term Project Report/Thesis in Financial Mathematics, Life Insurance, at Institute of Applied Mathematics of METU, Ankara, 2005.
- Seval Cevik, *Credit Rating of Bonds, Interest Rate Processes and Modelling with a Hidden Markov Chain Model*, MSc. Term Project Report/Thesis in Financial Mathematics, Life Insurance, at Institute of Applied Mathematics of METU, Ankara, 2005.
- Mesut Tastan, *Analysis and Prediction of Gene Expression Patterns by Dynamical Systems and a Combinatorial Algorithm*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2005.
- Osman Özgür, *Discrete Tomographic Reconstruction Methods from the Theories of Optimization and Inverse Problems: Application in VLSI Microchip Production*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2006.
- Nuray Celebi, *Public Debt Management in Turkey with Stochastic Optimization Approach*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2006 (with Assist. Prof. Dr. Esma Gaygisiz).
- Arda Kurt, *Boundary Element Formulation and Its Solution in Forward Problem of Electrocardiography by Using a Realistic Torso Model*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2006.
- Muhammed Alkin, *Text Mining: A Burgeoning Quality Improvement Tool from Applied Mathematics*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2007.
- Daniel Akume, *Risk-Constrained Dynamic Portfolio Management*, PhD. Thesis, University of Yaounde I, Yaounde, Cameroon, 2008 (coadvisor).
- Nurgül Gökgöz, *Development of Tools for Hybrid Systems with Memory*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2008 (coadvisor; with Assist. Prof. Dr. Hakan Öktem).
- Fatma Yerlikaya, *A New Contribution to Nonlinear Robust Regression and Classification with MARS and Its Application to Data Mining for Quality Control in Manufacturing*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, 2008.

This work got a *Best Thesis Award of METU* in 2009.

- S. Zeynep Alparslan Gök, *Cooperative Interval Games*, PhD Thesis at Institute of Applied Mathematics of METU, Ankara, January 26, 2009.
- Süreyya Özögür Akyüz, *A Mathematical Contribution of Statistical Learning and Continuous Optimization Using Infinite and Semi-Infinite Programming, to Computational Statistics*, PhD Thesis at Institute of Applied Mathematics of METU, Ankara, February 6, 2009.
- Erkan Büyükbeci, *Comparison of MARS, CMARS and CART in Predicting Default Probabilities for Emerging Markets*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, August 2009.
- Sedat Sarıkaya, *Combination of Conventional Regularization Methods and Genetic Algorithms for Solving the Inverse Problem of Electrocardiography*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara (coadvisor; with Assist. Prof. Dr. Yesim Serinagaoglu Dogrusöz), February 2010.
- Belgin Kayhan, *Parameter Estimation in Generalized Partial Linear Models with Tikhonov Regularization Method*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara (coadvisor; with Assist. Prof. Dr. Bülent Karasözen), September 2010.
- Gül Celik, *Parameter Estimation in Generalized Partial Linear Models with Conic Quadratic Programming*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, September 2010.
- Basak Akteke Öztürk, *New Approaches to Desirability Functions by Nonsmooth and Nonlinear Optimization*, PhD. Thesis at Institute of Applied Mathematics of METU, Ankara, July/October 2010.
- Azer Kerimov, *Office Rent Variations in Istanbul CDB: an Application of Mamdani and TSK-Type Fuzzy Rule Based System*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara (coadvisor; with Assoc. Prof. Dr. Isil Erol), August 2010.
- Ayse Özmen, *Robust Conic Quadratic Programming Applied to Quality Improvement - A Robustification of CMARS*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, August/September 2010.  
This work got a *Best Thesis Award of METU* in 2012.
- Zehra Cavusoglu, *Predicting Default Probabilities in Emerging Markets by Generalized Partial Linear Models*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2010.
- Hatice Sakarya, *Modern Data Reduction Techniques and Some Applications*, MSc. Thesis at Institute of Applied Mathematics of METU, Ankara, December 2010 - January 2011.

- Gürkan Üstünkar, *An Integrative Approach to Structured SNP Prioritization and Representative SNP Selection for Genome-Wide Association Studies*, PhD. Thesis at Informatics Institute (Graduate School of Informatics) of METU, Ankara (coadvisor; with Assist. Prof. Dr. Yesim Aydin Son), January 2011.
- Zeynep Cobandag, *Risk Modeling in Optimization Problems via Value at Risk and Conditional Value at Risk*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2011.
- Özlem Defterli, *Modern Mathematical Methods in Modeling and Dynamics of Regulatory Systems of Gene-Environment Networks*, PhD. Thesis at Department of Mathematics of METU, Ankara (coadvisor; with Assoc. Prof. Dr. S. Kaya Merdan), August 2011.
- Tugce Gönüz, *Stochastic Hybrid Systems Driven by Lévy Processes*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2012.
- Yasemin Yildiz, *Risk Measurement by Value at Risk and an Application with Its Modern Methods*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2012.
- Cigdem Güleroglu, *Portfolio Insurance Strategies*, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September-October 2012.
- Anil Karacayir, *Short Term Electricity Load Forecasting with Multiple Linear Regression and Artificial Neural Network*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, October 2012.
- N. Funda Ayvazoglu, *FX hedging via Options and Analysis of Different Strategies*, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, October 2012.
- Erkan Kalayci, *A MultiPeriod Stochastic Portfolio Optimization and Hedging Model Applied for the Aviation Sector in the EU ETS*, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, August 2013 (coadvisor; advisor: Assist. Prof. Dr. Esma Gaygisiz).
- Hacer Öz, *Advances and Applications of Stochastic Ito-Taylor Approximation and Change of Time Method: in the Financial Sector*, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2013.

- Simge Güneri, Statistical Network Analysis for Collaboration in Applied Mathematics, MSc. Thesis in Scientific Computing at Institute of Applied Mathematics of METU, of Applied Mathematics of METU, Ankara, September 2013.
- Fatma Yerlikaya Özkurt, Refinement, Extensions and Modern Applications of Conic Multivariate Adaptive Regression Splines, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, December 2013.,  
(This work got a *Parlar Best PhD. Thesis Award of METU* in 2015.)
- Efsun Kürüm, Early Warning on Stock Market Bubbles via Ellipsoidal Clustering and Inverse Problems, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2013 (advisor: G.-W. Weber; coadvisor: Assist. Prof. Dr. C. Iyigün).
- Simge G. Örsçelik, Prediction of Insulin Resistance by Statistical Tool MARS, Prediction of Insulin Resistance by Statistical Tool MARS, MSc. Thesis in Bioinformatics at Informatics Institute of METU, Ankara, January 2014.
- Semih Kuter, Development of an Atmospheric Correction Model for Removing Atmospheric Effects from MSG-Seviri Images, PhD. Thesis in Geodetic and Geographic Information Technologies, METU, Ankara, February 2014 (coadvisor).
- Ömür Albayrak, Barrier Option Pricing, MSc. Term Project Report/Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2015.
- Ekin Kantar Özçirpan, Investigation of the Impacts of Linkage Disequilibrium (LD) on SNP Selection Studies, MSc. Thesis in Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey, January 2015 (advisor; co-advisor: Assoc. Prof. Dr. Cem Iyigün).
- Fourough Gharbalchi No, Body Surface Lead Reduction Algorithm and Its Use in Inverse Problem of Electrocardiography, MSc. Thesis in Department of Biomedical Engineering, Graduate School of Natural and Applied Sciences, METU, Ankara, Turkey, January 2015 (coadvisor; advisor: Assoc. Prof. Dr. Yesim Serinagaoglu).
- Ayşe Özmen, Advances in Robust Identification of Spline Models and Networks by Robust Conic Optimization with Applications to Different Sectors, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, February 2015 (advisor); appeared as: Robust Optimization of Spline Models and Complex Regulatory Networks — Theory, Methods and Applications, Contributions to Management Science, Springer, 2016 (<http://www.springer.com/gp/book/9783319307992>).

- Vafa Jafarova, Pricing And Risk Minimizing Hedging Strategies For Multiple Life Unit Linked Insurance Policies Using Constant Proportion Portfolio Insurance Approach, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, February 2015 (coadvisor: G.-W. Weber; advisor: Prof. Dr. Ö. Gebizlioglu).
- Miray Hanim Aslan Yildirim, Electricity Market Modeling Using Stochastic and Robust Optimization, PhD. Thesis in Scientific Computing, at Institute of Applied Mathematics of METU, Ankara, March 2015 (advisor; co-advisor: Assoc. Prof. Dr. Özlem Türker Bayrak).
- Meslin Silalahi, Model Pemrograman Bilangan Bulat Multi Objektif Untuk Manajemen Limbah Pada Industri Minyak Mentah Sawit — Multi Objective Integer Programming Model for Effluent Management in Crude Palm Oil Industry, PhD. Thesis, Department of Mathematics, University of Northern Sumatra, Medan, Indonesia, August 2015 (coadvisor; advisor: Prof. Dr. Tulus; second coadvisor: Prof. Dr. Herman Mawengkang).
- Oluwakayode John Omole, Recent Developments in Portfolio Optimization via Dynamic Programming, MSc. Thesis in Financial Mathematics at Institute of Applied Mathematics of METU, Ankara, August 2015 (coadvisor; advisor: Assoc. Prof. Dr. Yeliz Yolcu Okur).
- Yavuz Yilmaz, Daily Natural Gas Consumption Prediction by MARS & CMARS Models for Residual Users in Ankara, MSc. Thesis in Scientific Computing at Institute of Applied Mathematics of METU, Ankara, August 2015 (advisor).
- Selim Yayla, Regulatory Networks Studied by Ellipsoidal Calculus, MSc. Thesis in Scientific Computing at Institute of Applied Mathematics of METU, Ankara, September 2015 (advisor; coadvisor: Assoc. Prof. Dr. Vilda Purutcuoglu).
- Nadi Serhan Aydin, Financial Modelling with Random Bridge Signals and Forward Information, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, June 2016 (advisor: G.-W. Weber; coadvisor: Prof. Dr. A.G. Constantinides); appeared as the book *Financial Modelling with Forward-looking Information: An Intuitive Approach to Asset Pricing* in Contributions to Management Science, Springer-Verlag.
- Azar Karimov, Modeling Illiquidity Premium and Bid-Ask Prices of the Financial Securities, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2016 (advisor: G.-W. Weber; coadvisor: Prof. Dr. S. Teker); to appear as a book *Identifying Stock Market Bubbles: Modeling Illiquidity Premium and Bid-Ask Prices of Financial Securities* in Contributions to Management Science, Springer-Verlag.

- Güray Kara, Robust Conditional Value-at-Risk under Parallelepiped Uncertainty: an Application to Portfolio Optimization, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2016 (advisor).
- Nijat Muttalimov, An Implementation of the Black-Litterman Model with Quantitative Views from EGARCH Models and Comparisons, MSc. Term Project in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, December 2016 (advisor).
- Sinem Keskin, Modern Portfolio Optimization with Value at Risk and Conditional Value at Risk - Explanation, Evaluation and Comparison, MSc. Term Project in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, January 2017 (advisor).
- Ece Köksal, Modeling of Exchange Rates by Multivariate Adaptive Regression Splines and Comparison with Classical Statistical Methods, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, June 2017 (advisor).
- Emre Akdoğan, Stochastic Optimal Control Theory: Applications to Finance and Insurance, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, June 2017 (coadvisor: advisor: Assoc. Prof. Dr. Yeliz Yolcu-Okur).
- Betül Kalaycı, Identification of Coupled Systems of Stochastic Differential Equations in Finance Including Investor Sentiment by Multivariate Adaptive Regression Splines, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, July 2017 (advisor).
- Emel Savku, Advances in Optimal Control of Markov Regime-Switching Models With Applications in Finance and Economics, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, August 2017 (advisor).
- Hacer Öz Bakan, Runge-Kutta Scheme for Stochastic Optimal Control Problems, PhD. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2017 (advisor; coadvisor: Assist. Prof. Dr. Fikriye Yılmaz).
- Mehmet Fatih Karadeniz, Iterative Methods for Tomography Problems: Implementation to Cross-Well Tomography Problem, MSc. Term Project Report/Thesis in Scientific Computing, September 2017 (supervision until defence day).
- Alper Cevik, Computer-Aided Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment with MARS/CMARS Classification Using Structural MR Images, PhD. Thesis in Biomedical Engineering, Graduate School of

Natural and Applied Sciences of METU, Ankara, September 2017 (coadvisor; advisor: Prof. Dr. Murat Eyüboğlu).

- Begzod Shakirov, Modeling Advanced Fund Transfer Pricing with an Application of Hull-White Interest-Rate Tree in Turkish Banking Sector, MSc. Thesis in Financial Mathematics, at Institute of Applied Mathematics of METU, Ankara, September 2017 (advisor).

My former diploma students *Dipl.-Math. Erik Kropat*, *Dipl.-Math. Andreas Rößler* (now: Dr.) and *Dipl.-Math. Markus Möller* (now: Dr.) became *doctoral students* at *Department of Mathematics of TU Darmstadt*, namely, as members of the working groups “Nonlinear Analysis – Dynamical Systems and Control“, “Stochastics and Operations Research“ and “Discrete Optimization“. Furthermore, my former thesis student from education *Petra Fakler* and my former student *Nicole Radde* (both from TU Darmstadt), my former diploma student *Dipl.-Math. Martin Lätsch* (from TU Chemnitz) became *doctoral students* at *Institute of Mathematics and ZAIK, University of Cologne*, while my former diploma student *Dipl.-Math. Martin Friedemann* (from TU Chemnitz) became a doctoral student at Institute for Mathematics at University of Clausthal-Zellerfeld.

At Institute of Applied Mathematics, METU, I am a coadvisor of *MSc. Nazim Önder Nazim Onak* (in scientific computing). Furthermore, I am coadvisor of *MSc. Özgür Özel*, I am advisor of *MSc. Shiva Moslemi* from Department of Industrial Engineering, Tehran, Iran. At Graduate School of Biomedical Engineering I am co-advisor of **PhD.** student *MSc. Fourough Gharbalchi*. At IAM of METU, I am advisor of the **MSc.** students *Begzod Shakirov* (in financial mathematics).

At Department of Mathematics, METU, I served to advice *PhD* student *BSc. Aysun Tezel* (in semi-infinite optimization; coadvisor), and *Dipl.-Math. Öznur Yasar* (in discrete tomography; now she became PhD at Memorial University of Newfoundland, School of Graduate Studies). For Department of Biological Sciences, METU, I coadvised of *PhD* student *MSc. Ceren Berkman* (computational biology). At ZAIK and Mathematical Institute at University of Cologne, I served in coadvising the two *doctoral students* *Dipl.-Math. Jutta Gebert* (now: Dr.) and *Dipl.-Phys. Nicole Radde* (now: Dr.) (both in computational biology).

Furthermore, at *Faculty of Mathematics at TU Chemnitz* I served at the beginning of the *doctor studies* of *Dipl.-Math. Michael Armbruster* (now: Dr.) (line optimization in German railway traffic; in collaboration with company *tlc*, Frankfurt a. M.). At Faculty of Mathematics, TU Chemnitz, at Faculty of Mathematics and Sciences, TU Ilmenau, at Institute of Mathematics, University of Cologne, and at Department of Mathematics, METU, I was member in the doctoral committees of *Dipl.-Math. M. Konik*, *Dipl.-Math. Abebe Geletu W. Selassie*, *Dipl.-Math. Karl Riedel*, *Dipl.-Math. Michael Kurth* and, at IAM of METU, of *MSc. A. Iscanoglu Cekic*, *MSc. Ö. Sezgin Alp*, *MSc. Irem Talasli*, *MSc. Aysun Türkvatan*, *MSc. Nurgül Gökgöz* and *MSc. Tugba Akman* (now all Dr.). At METU, Ankara,



and Koc University, Istanbul, I have belonged to many MSc. committees and to the PhD. committees, namely, from Department of Statistics of METU: of *MSc. Sahar Qumsiyeh*, *MSc. Melih Agraz* and *MSc. Ceyda Yazici*, from Department of Computer Engineering of METU: of *MSc. Ö. Sinan Saraç* and of *MSc. Kircicegi Korkmaz* (now: Dr.), from Department of Archeometry of METU *MSc. Uftade Muskara* (now: Dr.), from Department of Electrical and Electronics Engineering of METU: of *Reyhan Zengin*, from Geodetic and Geographic Information Technologies (GGIT; Graduate School) of METU: of *Murat Durmaz* and *Abdurrahman Belismaïla*, and from Department of Mathematics: of *MSc. Cemil Büyükdali* *MSc. Mehmet Turan*, *MSc. Hamdullah Yücel*, *MSc. Fikriye Yılmaz*, *Sevtap Özisik*, *MSc. Ali Hakan Tor* and *MSc. Zahir Seymen* (now: Dr.). I was a member of the PhD Defence Committees of *Mr. Luka Tomat* (now: Dr.) at Department of Economics at University of Ljubljana (Slovenia), of *Mr. Gintautas Jakimauskas* (now: Dr.) in Physical sciences, Informatics, at Vilnius University (Lithuania), of *Mr. Quoc Dong Vu* (now: Dr.) in Informatics and Automation, at Ilmenau University of Technology (Germany), of *Mrs. Eloisa Catarina Monteiro de Figueiredo Amaral e Macedo* (Department of Mathematics, University of Aveiro, Portugal), of *Mr. Burak Pac* (Department of Industrial Engineering, Bilkent University, Ankara, Turkey) and *Mr. Mustafa Kahraman* (Department of Software Education, Atilim, Ankara, Turkey). I have been a member of various other PhD juries, and I am external reviewer at Nanyang University, Singapore (in 2 PhD. processes until now), Periyar University, Salem, India (in 2 PhD processes until now) and Vilnius University, Lithuania (in 1 PhD processes until now).

### 3.3 Activities as Examiner and Referee

After many assistancies in intermediate diploma, intermediate state examinations (after two years) or diploma examinations in 1988-1999, I became an own responsible *examiner* in **diplom examinations** and *state examinations* of students from mathematics and informatics (computer science). In this function, I worked during 1998-2004 in about 200 examinations.

*Appointment:* On 5.7.2000, *Hessian Ministry of Culture* gave me an appointment for becoming an *Examiner for Mathematics* in *Examination Division for Teaching in Secondary Schools of Scientific Office for Teaching at TU Darmstadt*.

Furthermore, since 1988 I was *referee* (e.g., by *referee reports*) for about 700 scientific works (articles, books). If being wished, I can send a list of journals for which I served as a referee.

Since 1999 I also write reports on scientific works for *Zentralblatt für Mathematik*, since 2001 for *Mathematical Reviews*.

For TU Chemnitz (Germany), University of Cologne (Germany), METU, Ankara (Turkey), Dicle University (Diyarbakır, Turkey), University of Duisburg-Essen

(Germany), University of Ballarat (Australia), Nanyang Technological University (Singapore), Al-al Bayt University (Jordan) and Periyar University (Salem, India), I served with many reports (opinions) in hiring committees, in processes of promotion and PhD processes. Furthermore, I am an external reviewer at Nanyang Technological University, Singapore, an external reviewer of Research Grants Council, a member of Evaluation Committee of Research Work at Al al-Bayt University, Jordan and Periyar University, Salem, India, an assessor with the Australian Research Council, reviewer for National Science Center (Narodowe Centrum Nauki - NCN), Poland, and reviewer for Luxembourg National Research Fund (FNR) (OPEN), and a reviewer for VQR 2911-2014 by the National Agency on the Evaluation of University and Research Systems in Italy.

### 3.4 Guests

Since 1993, a number of guests from different towns and countries accepted my invitations to give presentations at TH/TU Darmstadt, TU Chemnitz, University of Cologne and METU Ankara (talks in working groups, seminars, colloquies and workshops) and to international workshops, conferences, symposia and summer institutes (cf. also: <http://europt.iam.metu.edu.tr/>, link: Scientific events).

### 3.5 Further Qualification, Didactical or Self Administration

- Participation in a university didactical working group in Department of Mathematics (TH Darmstadt, 1994-1996),
- Participation in *conception* of *habilitands' program "Studieren - Lernen - Forschen"* (TU Darmstadt, 1997),
- Information talks in "*Einführung ins Hauptstudium*" on the Hauptstudium offers of TH/TU Darmstadt in the field of analysis (1996-1999),
- Support of "*Orientierungswochen*" for study beginners at TH/TU Darmstadt, in particular, in Department of Mathematics (1994-1998),
- Member of "*Diplomprüfungskommission*" of Department of Mathematics at TH/TU Darmstadt (1995-2000),
- *Evaluation* (Lehrveranstaltungskritik) of my course *Analysis I* by students of Department of Mathematics at TU Darmstadt (SS 2000),
- Coworking in supervision of Mongolian guest scientists at TU Darmstadt (June/July 2000) and in the university celebration "*Athene feiert*" of TU Darmstadt (July 2000),
- *Evaluation* (Lehrveranstaltungskritik) of my course *Algorithmische Mathematik für Wirtschaftsinformatiker* by Institute of Applied Social Research at University of Cologne, by students of Mathematical Institute and by Department of Economy and Social Sciences (WS 2000/01),

- Member of Head Committee of Mathematical Institute and of Assembly of Faculty of Mathematics and Science of University of Cologne (WS 2000/01),
- Guest in Head Committee of Faculty of Mathematics at TU Chemnitz (SS 2001),
- *Evaluation* (Lehrveranstaltungskritik) of my mathematical courses and supervision at CUBIC (Cologne Bioinformatics Center), University of Cologne (2002 and 2003) and at IAM of METU, Ankara (since 2003),
- Co-applicant and participant at the international science and education project in optimization theory with *TÜBİTAK (The Scientific and Technological Research Council of Turkey)*,
- Co-applicant and participant at the international science and education project in data mining in manufacturing and quality control with *TÜBİTAK (The Scientific and Technological Research Council of Turkey)*,
- “SIAM Activity Week“ on the theme of *Networks*, organized for and by students, and with Prof. Dr. Bülent Karasözen and Dr. Hakan Öktem (METU, Ankara, May 2004),
- Participation in deepening of collaboration between *Institute of Applied Mathematics, METU* with *Department of Industrial Engineering, METU, Institute of Informatics, METU, Department of Biology, METU, Department of Food Engineering, METU*, but also *Institute of Biotechnology* and other branches of *Ankara University*,
- Participation in deepening of collaboration between *METU* with *GATA* (Turkish Medical School and Hospital of Armed Forces, Ankara, Turkey),
- “SIAM Activity Week“ on the theme of *Mathematics of the Brain*, organized for and with students (METU, Ankara, May 2007),
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Department of Mathematics, University of L’Aquila, Italy*, in the framework of European Erasmus Mundus Programme MathMods ”Mathematical Modelling in Engineering” (2007-2008),
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Department of Mathematics, Illinois State University, USA*, in Biomathematics (2007-2008),
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Russian Academy of Sciences, Department of the Computational Methods of Forecasting, Moscow* (2008),
- Preparation of collaboration of IAM, METU, with *Department of Mathematics, Eindhoven University of Technology, The Netherlands* (from 2008 on);

- Preparation of collaboration of IAM, METU, with *Faculty of Mathematics and Economics, University of Ulm, Germany*, in the framework of Erasmus Program and Scientific Collaboration (from 2008 on);
- “SIAM Activity Week“: one seminar by Professor Alf Kimms and Supply Chain Management at IAM organized (METU, Ankara, May 2008);
- Preparation of collaboration between *Institute of Applied Mathematics, METU* with *Max-Planck Society, Germany* (Ankara, November 2008 and May 2009);
- Involvement of IAM, METU, into the project of preparation and foundation of *Center of Research — Euro - Mediterranean — in Mathematics and Their Applications, CREMMA*, in Tunis, Tunisia;
- Preparation (continuation) of collaboration of IAM, METU, with University of Kaiserslautern, Germany (continuation of existing working plan; 2009);
- Preparation of collaboration of IAM, METU, with University of Zlin, Czech Republic (Erasmus) (2009);
- Preparation of collaboration of IAM, METU, with Institute of Mathematics and Informatics, Vilnius, Lithuania (Erasmus) (2009);
- Preparation of collaboration of IAM, METU, with Ort Braude College of Engineering, Karmiel, Israel (2009);
- Preparation of collaboration of IAM, METU, with Universität der Bundeswehr, Munich, Germany (2010);
- Preparation of collaboration of IAM, METU, with Fraunhofer Institute for Algorithms and Scientific Computing (SCAI), Sankt Augustin, near Bonn, Germany) (2008, 2010);
- Visit of some young Americans - Guidance and Presentation about METU and IAM given (2009);
- Collaboration in preparing Association of “Intellectual Systems in Aviation“ and member in the editorial board of magazine of “Intellectual Systems and Aviation Problems“ with National Academy of Aviation, Baku, Azerbaijan;
- Preparation of collaboration between METU and Universitas Sumatera Utara, Medan, Indonesia (2011);
- Member in Jury on Scholarships of DAAD (German Academic Exchange Service), Ankara, Turkey (December 2011).

## 4 List of Research Projects and Cooperations

The research projects and cooperations are basically represented in the *points 1-3 above*. In order to represent those of them which became projects in a more formal sense, I would like to state:

### Projects with Companies:

with company *momatec* (Aachen; technology and service in traffic management) (two common projects under participation of DLR and ZAIK): 2000-2004,

with company *Transport-Informatik-Logistik-Consulting GmbH (tlc)* (Frankfurt a.M.; line optimization for trains) (one common project): 2002-2005,

with the company *S.P.A.C. Ltd. Sti.* (Ankara; one common project on programs in statistics, especially, maximum-likelihood parameter estimation): 2005,

with *IBM* (Research Centers in New York, Zurich and Haifa) (collaboration between IBM and IAM/METU: in preparation) and

with the companies *Maximal Software* (London, GB, and New York, Arlington, USA), *gts systems & consulting* (Aachen, Germany) and *AIMMS* (Haarlem, The Netherlands, Kirkland, Washington, USA, and Singapore) and with *TÜBITAK* (The Scientific and Technological Research Council of Turkey) and *EOARD* (European Office of Aerospace Research & Development) (for preparation of scientific events).

### Further Projects:

- *ESF project on Financial mathematics and risk management*; accepted in 2004 under the name AMaMeF: Advanced Mathematical Methods in Finance;
- *TÜBITAK* (Turkish Scientific and Technological Research Council) project on *Modern Methods in Continuous Optimization* (TÜBITAK: Turkish Research and Technology Council);
- *TÜBITAK* project on *Use and Development of Data Mining Methods for Quality Control in Manufacturing*;
- *Balaban Valley Project* - improvements of living conditions on Turkish rural countryside (scientific collaborator and supporter);
- *Kerkenes Village Project* - improvements of living conditions on Turkish rural countryside (scientific collaborator and representer);
- *Australian Leadership Program for Africa (ALPA)* (scientific collaborator and representer);

- *BAP Project* Mathematical Modelling and Approximation of Gene Expression Patterns and Gene Networks (completed)  
(BAP: Research Fund for Scientific Collaboration in the Context of Post-Graduate Studies);
- *BAP Project* Boundary Element Formulation and Its Solution in Forward Problem of Electrocardiography by Using a Realistic Torso Model (completed);
- *BAP Project* Biological Data Mining and Classification: A Contribution of Statistical Learning and Continuous Optimization by Machine Learning and Semi-Infinite Programming (completed);
- *BAP Project* On an Inverse Problem Arising in Tomography of the Heart (completed);
- *BAP Project* A Classification Problem of Credit Risk Rating Investigated and Solved by New Methods of Statistical Learning and Optimization (completed);
- *BAP Project* Parameter Estimation for Actuarial Sciences and Financial Mathematics in Stochastic Differential Equations by Additive and Nonlinear Models and Continuous Optimization (completed);
- *BAP Project* Modern Mathematical Methods and Applications for Generalized Models in Statistics and Data Mining (completed);
- *BAP Project* Identification, Optimization and Control of Stochastic Differential Equations in Financial Mathematics (completed);
- *BAP Project* Mathematical Methods of Financial Risk Management Investigated and Solved by New Methods of Stochastic Calculus, Mathematical Statistics and Optimization (completed);
- *BAP Project* Advanced Mathematical Methods of Quality Analysis and Improvement by New Methods of Computational Statistics and Optimization with Applications in Manufacturing and Finance (completed);
- *BAP Project* Advanced Mathematical Methods of Early Warning Systems and Quality Control by New Methods of Data Mining, Stochastics and Optimization with Applications in Finance, Industry and the Environment (completed);
- *BAP Project* Unified and Hybrid Approaches to Identification, Optimization and Control of Stochastic Financial Processes Theory, Methods and Applications (BAP Project BAP- 07-05-2011-004) (completed);
- *BAP Project* Hisse Senetlerinin Fiyat Sürelerinin Kesirli Difüzyon Süreleri Kullanarak Parametre Tahminler (completed);
- *BAP Project* Unified and Hybrid Approaches to Identification, Optimization and Control of Stochastic Financial Processes Theory, Methods and Applications (2012; completed);

- *BAP Project* Stochastic Hybrid Systems of Financial and Economical Processes: Identified, Optimized and Controlled (2013; completed);
- *BAP Project* Identification, Optimization and Control of Stochastic Hybrid Systems with Jumps for Financial, Economical and Environmental Processes (2014; completed);
- *BAP Project* Stochastic Hybrid Systems with Jumps of Financial, Economic and Environmental Processes: Identification, Optimization and Optimal Control (2015; completed);
- *BAP Project* Financial, punctuated Stochastic Hybrid Systems of Economic and Environmental Processes: Definition, Optimization and Optimal Control (2016; completed);
- *BAP Project* Alternative modelling, parameter estimation and copulas in deterministic modelling of complex biological systems (2016; as a member; completed);
- *BAP Project* Impulsive Stochastic Hybrid Systems for Financial, Economic and Scientific Processes: Optimal Control and Optimization (first half of 2017);
- *BAP Project* Collection of data related to the cervical cancer, their analyses and modelings with its risk factors (in 2017; as a member);
- *DOSAP Project* Statistical Learning Methods in Financial Mathematics (with Assist. Prof. Dr. Pakize Taylan and Prof. Dr. Bülent Karasözen) (completed)  
(DOSAP: Exchange Program for Young Scientists in Turkey to study at more developed universities);
- ESF Research Networking Programmes *Optimization with PDE Constraints*: member of the project; help in writing of the proposal;
- international collaborator of *Eureka Ibero América*, Iberian-American Network of Knowledge Discovering, approved by Iberian American Program of Science and Technology for Development (CYTED);
- member in DAAD (German Academic Exchange Program) Program in Optimization Theory between Department of Mathematics, Darmstadt University of Technology (Germany), and Institute of Applied Mathematics, METU, Ankara.
- Project *Modelling of C. Acetobutylicum and Solvent Production in Fermentation Using Stochastic Power Law Logistic Model* at Universiti Teknologi Malaysia (UTM), Skudai, Malaysia;
- Collaborator in *EU-FP7 Project* SysPatho - New Algorithms for Host-Pathogen Systems Biology;
- Collaborator in *New Paradigms in Finance to Create Sustainable Solutions for the Economy, the Society, and the Environment* (European

- project);
- TÜBİTAK (Turkish Scientific and Technological Research Council ) project *Finansal Krizlerin Dinamiklerin Elipsoidal Analiz Ve Kümeleme Metodları Aracılığıyla Modellenmesi Ve Analışılması* (project coordinator);
  - EUROPT homepage and database hosted at IAM, METU;
  - Collaborator in Research Project on *Cutting Stock Problems*, University of Ljubljana, Slovenia;
  - Researcher in *CIMDA* (Centro de I&D em Matematica e Aplicacoes), University of Aveiro, Portugal;
  - *Project with Company* myGarantie International GmbH (Basel, Switzerland);
  - Project with Fraunhofer Institut “Algorithms and Scientific Computing“, St. Augustin, Bonn, Germany, on Computational Biology (in preparation);
  - Scientific Advisor of the project *Hand Vein Biometric Person Identification* by ‘Prosoft-Biometrics’ Ltd., Ekaterinburg, Russia;
  - Scientific Collaborator and Supporter of Australian Leadership Program for Africa (ALPA);
  - Peer reviewer for the evaluation of research products in the framework of the Italian Evaluation of Research Quality exercise (VQR 2004-2010).
  - Advisor to TUBITAK 3001 Research Project *Financial modelling of day-ahead electricity prices: A case of Turkey*.
  - Collaborator in the project proposal *Project proposal # 6166 — Development of information technologies for modeling, quantitative evaluation and forecasting the impact of the threats of conflicts and weapons proliferation on sustainable development of the society in regional and global contexts* to Science & Technology Center in Ukraine Headquarters, Kiev, Ukraine.
  - Member of ICIE 2016 - PhD Award Referee Committee (Tehran, Iran; January 2016).
  - Mentor in METU-AGEP Mentoring Program (Academic Development Program at METU; 2016).
  - Successfully participated at a mandatory course on Health and Safety, METU (November-December 2016).



## 5 Presentations

### 5.1 Presentations and Stays at International Scientific Events

- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Utrecht, The Netherlands, March 1988.
- G.-W. Weber, “Workshop on Methods of Topology and Nonsmooth Analysis in Optimization Theory”, Karlsruhe, Germany, June/July 1988.
- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Diepenbeek, Belgium, September 1988.
- G.-W. Weber, “Aachen Maastricht Day of Mathematics”, Maastricht, The Netherlands, January 1989.
- G.-W. Weber, “Aachen Maastricht Day of Mathematics”, Aachen, Germany, June 1989.
- G.-W. Weber, “Aachen Maastricht Day der Mathematics”, Maastricht, The Netherlands, October 1989.
- G.-W. Weber, Nonlinear optimization: Characterization of Structural Stability, “2<sup>d</sup> International Conference on Parametric Optimization and Related Topics”, Sellin (Rügen island), Germany, April 1990.
- G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Aachen, Germany, June 1990.
- G.-W. Weber, Research visit in Vienna: visit of Dr. J.-J. Rückmann at “International Institute for Applied Systems Analysis”, Vienna, September 1990.
- G.-W. Weber, Summer school “Modern Methods of Optimization”, Thurnau, Franconia, Germany, October 1990.
- G.-W. Weber, Nonlinear Optimization: Characterization of Structural Stability, the Sufficiency Part, “XV. International Conference on Mathematical Optimization - Theory and Applications”, Eisenach (Germany) (with Prof. Dr. H. Th. Jongen), Dezember 1990.
- G.-W. Weber, On Semi-Infinite Optimization, “Aachen Maastricht Day of Mathematics”, Aachen, June 1991.
- G.-W. Weber, Semi-Infinite Optimization: Towards a characterization of structural stability, Symposium “EURO VI (11<sup>th</sup> European Congress on Operational Research)”, Aachen, Germany, July 1991; helper at that conference.
- G.-W. Weber, On Structural Stability in Semi-Infinite Optimization, “3<sup>d</sup> International Conference on Parametric Optimization and Related Topics” in Güstrow (Mecklenburg country), Germany, August 1991.
- G.-W. Weber, On the Feasible Set in Semi-Infinite Optimization, Conference, “Real and Complex Analysis”, Aachen, October 1991.
- G.-W. Weber, “Day of Dynamical Systeme” (Dynamical Systems Group;

- Benelux countries, France, Germany), Aachen, Germany, December 1991.
- G.-W. Weber, Minimization of a Max-Type Function: Characterization of Structural Stability, Conference “Parametric Optimization and Complexity”, Lambrecht (Pfalz country), Germany, June 1992.
  - G.-W. Weber, Nonlinear Optimization: Some Aspects of Stability, “24<sup>th</sup> Conference on Mathematical Programming, 9<sup>th</sup> Joint Conference on Mathematical Methods in Economics”, Loučná, ČSFR, September 1992.
  - G.-W. Weber, “Aachen Maastricht Day of Mathematics” in Aachen, Germany, December 1992.
  - G.-W. Weber, “Day of Dynamical Systems” (Dynamical Systems Group; Benelux countries, France, Germany), Aachen, Germany, December 1992.
  - G.-W. Weber, On Structural Stability and an Index in Nonlinear Control Theory, “7<sup>th</sup> French-German Conference on Optimization”, Dijon, France; June 1994.
  - G.-W. Weber, Nonlinear Control Theory: Structural Stability and its Characterization, “15<sup>th</sup> Symposium in Mathematical Programming”, Ann Arbor, USA); Chairman of a session.
  - G.-W. Weber, On Structural Stability in Nonlinear Optimization and Control, “Symposium on Operations Research” - Annual Meeting of OR Societies DGOR und GMÖOR in Berlin, Germany, August-September 1994,
  - G.-W. Weber, On Global Stability in Optimization and Optimal Control, “Colloquium Carolus Magnus - Mathematisch-Kulturgeschichtliches Colloquium” in Aachen, Germany, March 1995.
  - G.-W. Weber, Nonlinear Optimization and Optimal Control: Genericity and Gaps, “4<sup>th</sup> International Conference on Parametric Optimization and Related Topics”, Enschede, The Netherlands, June 1995.
  - G.-W. Weber, On the Topological Connection between Optimization over  $\mathbb{R}^n$  and Optimal Control, “AMS–SIAM Summer Seminar in Applied Mathematics - Mathematics of Numerical Analysis: Real Number Algorithms”, Park City, USA, July 1995.
  - G.-W. Weber, On Generalized Semi-Infinite Optimization: Some Foundations and Iteration Procedures “8<sup>th</sup> French-German Conference on Optimization”, Trier, Germany, July 1996.
  - G.-W. Weber, Generalized Semi-Infinite Optimization: On Foundations, Iteration Procedures and Relations to Optimal Control, “Symposium on Operations Research” - Annual Meeting of OR Societies DGOR und GMÖOR, Braunschweig, Germany, Germany, September 1996.
  - G.-W. Weber, On Generalized Semi-Infinite Optimization, Optimal Control and Their Relations, Annual Meeting 1996 of German Mathematical Society (DMV), Jena, Germany, September 1996.

- G.-W. Weber, On Generalized Semi-Infinite Optimization: Some Aspects of Structure, Optimality and Iteration Procedures, “International Workshop on Semi-Infinite Programming”, Cottbus, Germany, September 1996.
- G.-W. Weber, On Aspects of Structure and Stability in Optimal Control Theory, “12<sup>th</sup> Conference on Variational Calculus, Optimal Control and Applications”, Trassenheide (Usedom island), Germany, September 1996.
- G.-W. Weber, On Some Iteration Procedures in Generalized Semi-Infinite Optimization, “International Conference on Optimization and Optimal Control”, Lambrecht (Pfalz country), Germany, February 1997; Chairman of a session.
- G.-W. Weber, Von der Kurvendiskussion über die Topologie zur Optimierung, “Workshop Analysis” in Darmstadt, Germany, April 1997.
- G.-W. Weber, Wie kann man für eine sehr allgemeine Klasse von Optimierungsproblemen zu Iterationsverfahren gelangen?, “Workshop Analysis”, Darmstadt, Germany, May 1997; Organizer of the workshop.
- G.-W. Weber, Zum Problemkreis Mittag-Leffler in der Funktionentheorie, “Workshop Analysis” in Darmstadt, Germany, June 1997; Organizer of the workshop.
- G.-W. Weber, Generalized Semi-infinite Optimization: On Foundations and Iteration Procedures (with Dr. St. Pickl), “16<sup>th</sup> International Symposium on Mathematical Programming”, Lausanne, Switzerland, August 1997.
- G.-W. Weber, Generalized Semi-infinite Optimization: On Foundations and Practical Aspects “Symposium on Operations Research” - Annual Meeting of OR Societies DGOR und GMÖOR, Jena, Germany, September 1997.
- G.-W. Weber, Generalized Semi-Infinite Optimization: On Theoretical and Practical Aspects, “5<sup>th</sup> International Conference on Parametric Optimization and Related Topics”, Tokyo, Japan, October 1997.
- G.-W. Weber, On Stability Aspects in Nonlinear and in Discrete Optimization, “9<sup>th</sup> Belgian-French-German Conference on Optimization”, Namur, Belgium, September 1998; Chairman of a session.
- G.-W. Weber, On Similarity, Analogy and Symmetry in Generalized Semi-Infinite Optimization, Optimal Control and Discrete Optimization, “International Workshop on Similarity Methods” (organized by Institute for Statics and Dynamics of Aerospace Structures, University of Stuttgart), Stuttgart, Germany, November 1998.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und ihre Anwendung in Kontrolltheorie und diskreter Optimierung, Conference “Mathematische Modellierung und Optimierung” in Darmstadt, Germany, July 1999; Organizer of the workshop (with Dr. St. Pickl).
- G.-W. Weber, Theoretical and practical relations between discrete optimiza-

- tion, nonlinear optimization and control (with Dr. St. Pickl) “Symposium on Operations Research”, Magdeburg, Germany, September 1999.
- G.-W. Weber, Semi-Infinite Optimization and Optimal Control: Iterative Procedures and Global Stability, “Symposium on Operations Research”, Magdeburg, Germany, September 1999.
  - G.-W. Weber, Global Stability and Algorithms in Optimal Control and Nonlinear Optimization, “8<sup>th</sup> International Symposium on Computational Fluid Dynamics”, Bremen, Germany, September 1999.
  - G.-W. Weber, Global Stability and Iteration Procedures in Nonlinear Optimization and Optimal Control, “Workshop on Semi-Infinite Programming and Related Topics”, Alicante Spain, September 1999.
  - G.-W. Weber, Workshop “A<sup>3</sup>DiM<sup>3</sup>O 2000” of Graduate Programs *Algorithmische Diskrete Mathematik (Berlin)*, *Angewandte Algorithmische Mathematik (Munich)*, *Mathematische Optimierung (Trier)*, Munich, Germany, March 2000.
  - G.-W. Weber, Semi-Infinite Optimization, Optimal Control and Some Relations with Interior Point Methods, “2<sup>nd</sup> Workshop on Interior Point Methods IPM-2000”, in Budapest, Hungary, July 2000.
  - G.-W. Weber, On Generalized Semi-Infinite Optimization, Symposium “EURO XVII (17<sup>th</sup> European Conference on Operational Research)”, Budapest, Hungary, July 2000; Chairman of a session.
  - G.-W. Weber, On Generalized Semi-Infinite Optimization: Relations to Discrete Structures and Optimal Control, “17<sup>th</sup> International Symposium on Mathematical Programming”, Atlanta, USA, August 2000.
  - G.-W. Weber, Generalized Semi-Infinite Optimization: Continuous and Discrete, Plenary Lecture, “French-German-Italian Conference on Optimization”, Montpellier, France, September 2000.
  - G.-W. Weber, Some Foundations and Applications of Generalized Semi-Infinite Optimization, “Symposium on Operations Research OR 2000” - Annual Meeting of GOR in Dresden, September 2000; Chairman of two sessions.
  - G.-W. Weber, Generalized Semi-Infinite Optimization: Relations with Optimal Control and Discrete Optimization, Invited Survey Lecture, Annual Meeting 2000 of DMV in Dresden, Germany, September 2000.
  - G.-W. Weber, On Theoretical and Algorithmic Relations between Discrete and Nonlinear Optimization, Annual Meeting 2000 of DMV in Dresden, Germany, September 2000.
  - G.-W. Weber, “Symposium on Discrete Mathematics 2000”, Munich, Germany, October 2000.
  - G.-W. Weber, On Generalized Semi-Infinite Optimization, Colloquy “Discrete Optimization - Structure and Stability of Dynamical Systems”, Cologne,

- Germany, October 2000; *Chairman* of a session.
- G.-W. Weber, “3<sup>rd</sup> International Workshop on Similarity Methods” (organized by Institute for Statics and Dynamics of Aerospace Structures, University of Stuttgart), Stuttgart, Germany, November 2000.
  - G.-W. Weber, Approaches to Mechanics from Discrete and Nonlinear Optimization and Control, GAMM workshop “Discrete Modelling and Discrete Algorithms in Continuum Mechanics”, in Braunschweig, Germany, November 2000; *Chairman* of a session.
  - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, Workshop “The Mathematics of Discrete Tomography” in Oberwolfach, Germany, December 2000.
  - G.-W. Weber, Optimal Control - Theory and Methods from Production and Traffic (held twice), “EURO 2001 - The European Operational Research Conference”, Rotterdam, The Netherlands, July 2001; *Chairman* of a session; conference supported by EUROPT.
  - G.-W. Weber, Wavelet Analysis of Discrete Data in Traffic Regulation, Workshop on “Theory and Applications of Smooth and Nonsmooth Optimization” (with Dr. H. Kirschfink and Dr. M. Konik), Rotterdam, The Netherlands, July 2001; member of Organizing Committee.
  - G.-W. Weber, On Earth Warming System Analysis - the TEM-model and the Optimal Control Problem of Heating (with Dr. St. Pickl), “20<sup>th</sup> IFIP TC7 Conference on System Modelling and Optimization”, Trier, Germany, July 2001; *Chairman* of a session.
  - G.-W. Weber, Impulses from Results of Inverse Problems, “Symposium on Operations Research - OR2001”, Annual Meeting (Jahrestagung) of GOR, Duisburg, Germany, September 2001; *Chairman* of a session.
  - G.-W. Weber, Optimal Control of Heating Processes - with Special Emphasis on Earth Warming, “Symposium on Operations Research - OR2001”, Annual Meeting (Jahrestagung) of GOR, Duisburg, Germany, September 2001.
  - G.-W. Weber, 12<sup>th</sup> joint Czech-German-Slovak Conference “Mathematical Methods in Economy and Industry”, Arnstadt, Thuringia, Germany; coauthor of one presentation, July 2002.
  - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, Invited Presentation, International Conference “Computational Technologies and Mathematical Models for Research, Engineering and Education”, Alma Ata, Kazakhstan, September 2002.
  - G.-W. Weber, “European Conference on Computational Biology”, Saarbrücken, Germany, October 2002.
  - G.-W. Weber, Algorithmic Analysis of Gene Expression Data Problems to Discrete Tomography, “Similarity Methods 2002”, Stuttgart, Germany, No-

vember 2002.

- G.-W. Weber, Towards DNA Chip Analysis and Discrete Tomography by Inverse Problems and Optimization, “4<sup>th</sup> IMACS Symposium on Mathematical Modelling”, Vienna, Austria, February 2003.
- G.-W. Weber, 13<sup>th</sup> GOR-Workshop “Entscheidungstheorie und -praxis” 2003, Bad Honnef, Germany, February 2003; Chairman of a session.
- J. Gebert, S.W. Pickl, N. Shokina, G.-W. Weber and R. Wünschiers, Mathematical Modeling and Discrete Approximation in Evaluation and Forecasting of Expression-Data, Scientific Program of the *2nd Cologne Twente Workshop on Graphs and Combinatorial Optimization*, 2003.
- G.-W. Weber, Various Coauthorships with talks of Prof. Dr. H. Th. Jongen, Dr. St. Pickl, Dr. R. Wünschiers, Dipl.-Math. J. Gebert, M. Lätsch and D. Akume, 1988-2003.
- G.-W. Weber, J. Gebert, M. Lätsch, S.W. Pickl and R. Wünschiers, Towards DNA Chip Analysis and Discrete Tomography by Reverse Problems and Optimization, *4th MATHMOD Vienna - Fourth International Symposium on Mathematical Modelling*, Vienna, February 2003.
- G.-W. Weber, New Projects at the Institute of Applied Mathematics, Workshop on Advances in Continuous Optimization, July 4-5, 2003; Chairman of a session.
- G.-W. Weber, Modelling and Prediction of Gene-Patterns, EURO/INFORMS, Joint International Meeting, July 6-10, 2003; support of conference by EUROPT.
- G.-W. Weber, On Connections between Semi-Infinite Optimization and Optimal Control, EURO/INFORMS, Joint International Meeting, July 6-10, 2003; support of conference by EUROPT.
- G.-W. Weber, Continuous Optimization in Modelling and Prediction of Gene-Patterns, EURO Summer Institute - ESI XXI - Stochastic and Heuristic Methods in Optimization, Invited Presentation, Lithuania, Neringa, July 25 - August 7, 2003; Chairman of a session.
- G.-W. Weber, Connections between Semi-Infinite Optimization and Optimal Control, and Modern Applications, EURO Summer Institute - ESI XXI - Stochastic and Heuristic Methods in Optimization, Invited Presentation, Lithuania, Neringa, July 25 - August 7, 2003; Chairman of a session.
- G.-W. Weber, Modelling, Optimization and Dynamics of Gene-Patterns, Invited Presentation, Summer School “Advanced Mathematical Methods in Engineering”, Çeşme, Turkey, August, 2003.
- G.-W. Weber, Dynamics and Control of Earth Warming, Invited Presentation, Summerschool “Advanced Mathematical Methods in Engineering”, Çeşme, Turkey, August, 2003.

- G.-W. Weber, Various Projects on Applied Mathematics at Institute of Applied Mathematics of METU, Annual Meeting of Mathematical Society, Invited Presentation, Van, Turkey, September 2003.
- G.-W. Weber, S.W. Pickl, B. Karasözen and H. Körezlioğlu, Optimization of Financial Processes and Investments in CO<sub>2</sub>-Emission Reduction, METU Conference VII in Economics, Ankara, September 5-9, 2003.
- G.-W. Weber, Projects in Computational Biology at IAM of METU, Biyotip Meeting at METU, Ankara, Turkey, January 2004.
- G.-W. Weber and T. Ergenç, Structure, Stability and Application of Generalized Semi-Infinite Optimization, Workshop on Challenges of Continuous Optimization in Theory and Applications, Rhodes, Greece, July 2-3, 2004; member of Organizing Committee and Chairman of a session.
- G.-W. Weber, M.U. Akhmet, H. Öktem, F.B. Yılmaz, S.W. Pickl and Ö. Uğur, Optimization and Stability of Gene-Expression Patterns and Their Networks, EURO XX Conference, Rhodes 4-7, 2004; support of conference by EUROPT via me.
- G.-W. Weber, B. Karasözen and A. Tezel, Generalized Semi-Infinite Optimization and Anticipatory Systems, EURO XX Conference, Rhodes 4-7, 2004; support of conference by EUROPT via me.
- D. Lozuvanu, S.W. Pickl and G.-W. Weber, Optimization, Monotonicity and the Determination of Nash Equilibria, Invited Paper, Computing Anticipatory Systems: CASYS'03 - Sixth International, August 2004; member of International Program Committee, Chairman of a session.
- J. Gebert, M. Lätsch, S.W. Pickl, G.-W. Weber and R. Wünschiers, Genetic Networks and Anticipation of Gene Expression Patterns, invited paper, Computing Anticipatory Systems: CASYS'03 - Sixth International, August 2004; member of International Program Committee, Chairman of a session.
- F.B. Yılmaz, H. Öktem and G.-W. Weber, Mathematical Modeling and Approximation of Gene Expression Patterns and Gene Networks, International Conference on Operations Research, Tilburg, The Netherlands, September 2004.
- G.-W. Weber, M.U. Akhmet, H. Öktem, Ö. Yaşar, F.B. Yılmaz and S.W. Pickl, Algorithmic Computational Biology: Optimization and Stability of Gene-Expression Patterns and Their Networks, Invited Lecture, International Conference *Computational Technologies and Mathematical Models for Research, Engineering and Education* in Almaty, Kazakhstan, October 6-10, 2004.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Gemeinsamer GOR-Workshop der Arbeitsgruppen "OR im Umweltschutz" und "Optimierung von Biosystemen": Environmental Management und komplexe Biosysteme, invited talk, Universität Siegen, March 10-11, 2005.
- G.-W. Weber, E. Dağlı, M. Taştan and O. Özgür, PASCAL Tutorial and

Workshop Machine Learning, Support Vector Machines, and Large-Scale Optimization, Wissenschaftszentrum Schloss Thurnau, Germany, March 16-18, 2005.

- G.-W. Weber and S.W. Pickl, On Optimal Control of Heating Processes, SIAM Conference on Optimization, May 15-19, 2007; conference supported by EUROPT via me.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems in Nature, Industry and Society, 17 EURO Mini Conference “Continuous Optimization in the Industry”, Pécs, Hungary, June 29 - July 1, 2005; member of Organizing Committee, Chairman of a session.
- G.-W. Weber, 5 Years EUROPT - Happy Birthday!, 17 EURO Mini Conference “Continuous Optimization in the Industry”, Pécs, Hungary, June 29 - July 1, 2005; member of Organizing Committee, Chairman of a session.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Invited Talk, SSIP 2005, 13th Summer School on Image Processing, Szeged, Hungary, June 30 - July 8, 2005.
- G.-W. Weber, M.U. Akhmet, H. Öktem, S.Z. Alparslan, A. Tezel and S.W. Pickl, An Anticipatory Extension of Malthusian Model, invited paper, CASYS’05, Seventh International Conference on Computing Anticipatory Systems, Liege, Belgium, August 8-13, 2005; member of International Program Committee.
- G.-W. Weber, A. Kuba and Ö. Yaşar, Discrete Tomography: a Joint Contribution by Optimization, Equivariance Analysis and Learning, invited paper, CASYS’05, Seventh International Conference on Computing Anticipatory Systems, Liege, Belgium, August 8-13, 2005; member of International Program Committee.
- S. Özögür, A.G. Sagdıçoğlu Celep, B. Karasözen, N. Yıldırım and G.-W. Weber, Dynamical modelling of enzymatic reactions, simulation and parameter estimation with genetic algorithms, *HIBIT - International Symposium on Health Informatics and Bioinformatics, Turkey ’05*, Antalya, Turkey, November 2005; member of Advisory Board and Scientific Committee.
- E.M.P. Quek, G.-W. Weber and R. Sambanthamurthi, Determination of Control Structure in Lipid Biosynthesis Pathways, in: *HIBIT - International Symposium on Health Informatics and Bioinformatics, Turkey ’05*, Antalya, Turkey, November 2005; member of Advisory Board and Scientific Committee.
- M. Tastan, T. Ergenc, S.W. Pickl and G.-W. Weber, Stability Analysis of Gene Expression Patterns by Dynamical Systems and a Combinatorial Algorithm, *HIBIT - International Symposium on Health Informatics and Bioinformatics, Turkey ’05*, Antalya, Turkey, November 2005; member of Advisory Board and Scientific Committee.
- G.-W. Weber and A. Tezel, Generalized Semi-Infinite Optimization and An-



- ticipatory Systems, International Scientific Annual Conference, Operations Research 2005, Bremen, Germany, September 7-9, 2005.
- G.-W. Weber, M.U. Akhmet and S.W. Pickl, Challenges in the Optimization of Bio-Systems International Scientific Annual Conference, Operations Research 2005, Bremen, Germany, September 7-9, 2005.
  - G.-W. Weber, M.U. Akhmet, H. Öktem and S.W. Pickl, Anticipatory Extensions of Malthusian Model, International Scientific Annual Conference, Operations Research 2005, Bremen, Germany, September 7-9, 2005.
  - G.-W. Weber, A. Kuba, Ö. Yaşar, E. Dağlı and O. Özgür, Discrete Tomography: New Approaches and Results by Optimization Theory and Statistical Learning, ISPRS 2005, Spatial Data Mining Workshop, METU, Ankara, Turkey, November 24-25, 2005.
  - P. Taylan and G.-W. Weber, New approaches to regression in financial mathematics by generalized additive models, First Conference of Advanced Mathematical Methods for Finance, April 29, 2006, Side, Antalya, Turkey; member of Organizing Committee, Chairman of a session.
  - G.-W. Weber, Z. Alparlan, B. Karasözen, H. Körezlioğlu, S.W. Pickl and Ö. Uğur, On energy management and sustainable development, First Conference of Advanced Mathematical Methods for Finance, April 29, 2006, Side, Antalya, Turkey.
  - G.-W. Weber, Visit of University of Copenhagen, Denmark, May 2006.
  - G.-W. Weber, Visit of University of Iceland, Reykjavik, May 2006.
  - G.-W. Weber and A. Tezel, On generalized semi-infinite optimization of genetic networks, 5th EUROPT Workshop “Advances in Continuous Optimization”, Reykjavik, Iceland, June 30 - July 1, 2006; member of Organizing Committee, Chairman of a session.
  - G.-W. Weber and A. Tezel, 6 Years EUROPT, 5th EUROPT Workshop “Advances in Continuous Optimization”, Reykjavik, Iceland, June 30 - July 1, 2006; member of Organizing Committee, Chairman of a session.
  - G.-W. Weber, A Dynamical, Optimization and Algorithmic Approach to Analyze Gene-Environment Networks, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, Plenary Chair, Stream Organizer, Session Organizer.
  - P. Taylan and G.-W. Weber, New Approaches to Regression in Financial Mathematics by Generalized Additive Models (Conic Quadratic Programming), EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, Plenary Chair, Stream Organizer, Session Organizer.
  - S. Özögür, G.-W. Weber and J. Shawe-Taylor, Biological Data Mining by using SVM and Pattern Analysis, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).

- A. Gökmen, G.-W. Weber, D. DeTombe and I. Gökmen, Improving Sustainable Living in Rural Areas in Turkey, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- B. Akteke-Öztürk and G.-W. Weber, Semidefinite Programming Approach for Support Vector Clustering, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- R. Ak and G.-W. Weber, A new approach credit rating with Hidden Markov Model about Turkish economy, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- M. Türkey and G.-W. Weber, Foundation Meeting of EURO WG “OR in Computational Biology and Bioinformatics”, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- L. White, G.-W. Weber and M. Shutler, Foundation Meeting of EURO WG “OR for Development”, EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- A. Gökmen, I. Gökmen, G.-W. Weber and D. DeTombe, Discussion Presentation: Improving Sustainable Living in Rural Areas in Turkey, at: EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; member of Program Committee, etc. (cf. above).
- G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Discrete Tomography: a Joint Contribution by Optimization Theory, Equivariance Analysis and Statistical Learning, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
- G.-W. Weber, Ö. Uğur, A. Tezel and T. Ergenç, On Generalized Semi-Infinite Optimization of Genetic Networks, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
- S.Z. Alparslan, B. Karasözen, H. Körezlioğlu, Ö. Uğur, G.-W. Weber and S.W. Pickl, On Energy Management and Sustainable Development, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
- M.U. Akhmet, H. Öktem, G.-W. Weber and S.W. Pickl, An Anticipatory Extension of Malthusian model, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
- G.-W. Weber, 6 years EUROPT - Foundation EURO ORD - Foundation EURO CBBM, Invited Lecture, 1st Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, Ukraine, August 4-20, 2006.
- G.-W. Weber, Ö. Uğur, A. Tezel and T. Ergenç, On Discrete-Continuous and

- Generalized Semi-Infinite Optimization of Genetic Networks, GO V Meeting, Leukerbad, Switzerland, August 20-24, 2006.
- G.-W. Weber, Ö. Uğur, A. Tezel, A. Soyler and M. Çetin, On Discrete-Continuous Modeling and Generalized Semi-Infinite Optimization of Gene-Environment Networks, Workshop on Networks in Computational Biology, IAM, METU, Ankara, Turkey, August 20-24, 2006, member of Organizing Committee, Chairman of a session.
  - G.-W. Weber, Condolence Speech in Honour of Prof. Dr. Alexander Rubinov, Memorial Service, 5th Ballarat Workshop on Global and Nonsmooth Optimization: Theory, Methods and Applications, Ballarat, Australia, November 28-30, 2006.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür, P. Taylan and A. Tezel, Generalized Semi-Infinite Optimization for Modeling, Dynamics and Prediction of Gene-Environment Networks, Invited Talk, 5th Ballarat Workshop on Global and Nonsmooth Optimization: Theory, Methods and Applications, Ballarat, Australia, November 28-30, 2006.
  - F. Vural-Yarman, G.-W. Weber et al., Visit and Stay at Süleyman Demirel University, Isparta, Turkey, in the framework of ÖYP program on preparation of PhD Students in METU, Ankara, February 2007.
  - G.-W. Weber, Visit of University of Economics, Prague, Czech Republic, April 2007.
  - G.-W. Weber, Visit of Charles University, Prague, Czech Republic, April 2007.
  - G.-W. Weber, S.Z. Alparslan Gök and M.U. Akhmet, A New Mathematical Approach in Environmental Protection: Gene-Environment Networks and Their Dynamics, speaker: S. Pickl, 1st Canadian Discrete and Algorithmic Mathematics Conference, May 28-31, 2007, CanaDAM 2007, Banff, Canada, May 28-31, 2007.
  - M. Taştan, Ö. Çelik, G.-W. Weber, F. Korkusuz and B. Karasözen, New Approaches in Mathematical Modeling of Proximal Femur Geometry and Bone Mineral Density, International Symposium on Health Informatics and Bioinformatics Turkey '07, HIBIT, Antalya, Turkey, April 30 - May 2, 2007; Member of Advisory Board, Chairman of a Session.
  - G.-W. Weber and Ö. Uğur, Optimizing Gene-Environment Networks: Generalized Semi-Infinite Programming Approach With Intervals, International Symposium on Health Informatics and Bioinformatics Turkey '07, HIBIT, Antalya, Turkey, April 30 - May 2, 2007; member of Advisory Board, Chairman of a session.
  - B. Akteke-Öztürk, G.-W. Weber and S. Kayalıgil, Kalite iyilestirmede veri kümeleme: doktüm endüstrisinde bir uygulama, Yoneylem Arastirmasi ve Endüstri Muhendisligi, 27. Ulusal Kongresi (27th Annual Conference of the Tur-

- kish OR Society), YA/EM 2007, July 2-4, 2007, Izmir, Turkey.
- G.-W. Weber, A. Tezel, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür and P. Taylan, Optimization, Dynamics and Prediction of Gene-Environment Networks — Elements of Finance and Development Included, EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; member and Chair of Program Committee, EUROPT and SIAM Representative, Chairman of session.
  - G.-W. Weber, Professor Georg Still - EUROPT Fellow, EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; member and Chair of Program Committee, etc. (cf. above).
  - G.-W. Weber, 7 Years EUROPT - EURO Working Group on Continuous Optimization, EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; member and Chair of Program Committee, etc. (cf. above).
  - I. Gökmen, A. Gökmen, H. Önder, H. Tuydes and G.-W. Weber, Sustainable Living in Balaban Valley, Workshop on Sustainable Living at Turkish Rural Countryside, METU, Ankara, June 8, 2007; member of Organizing Committee and Chairman of a session.
  - G.-W. Weber, P. Taylan, S.Z. Alparslan Gök, B. Akteke Öztürk, S. Özögür, Ö. Uğur and A. Tezel, A New Mathematical Approach in Environmental Protection: Gene-Environment Networks and Their Dynamics, EURO WG CBBM Workshop, Prague, July 8, 2007; member of Organizing Committee, Chairman of a session.
  - A. Gökmen, I. Gökmen, H. Önder and G.-W. Weber, Sustainable Living in Balaban Valley, Invited Talk, EURO-ORD Workshop “Workshop on OR for Developing Countries Young Researchers and PhD Symposium”, Prague, Czech Republic July 7, 2007; member of Organizing Committee.
  - F. Summers, S.T. Elias-Özkan and G.-W. Weber, Kerkenes Team: A Short Presentation and Demonstration on the Kerkenes Eco-Center Project Activities, EURO-ORD Workshop “Workshop on OR for Developing Countries Young Researchers and PhD Symposium”, Prague, Czech Republic July 7, 2007; member of Organizing Committee, Chairman of a session.
  - P. Taylan and G.-W. Weber, Regression in Financial Mathematics by Additive Models and Continuous Optimization, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, (several times) Stream Organizer, Session Organizer and Chairman.
  - Ö. Uğur and G.-W. Weber, A Mathematical Tutorial: Dynamics and Prediction in Gene-Environment and Financial Networks with the Help of Optimization, Tutorial, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
  - B. Akteke-Öztürk and G.-W. Weber, Data Mining for Quality Improvement Data with Nonsmooth Optimization vs. PAM and k-Means, EURO XXII

- 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
- G.-W. Weber, P. Taylan, S.Z. Alparslan-Gök, B. Akteke-Öztürk, S. Özögür, A. Tezel and S.W. Pickl, Dynamics, Stability and Control in Environmental and Biological Dynamics, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
  - S.Z. Alparslan, S. Tijs, B. Karasözen, G.-W. Weber and S. Miquel, Cooperation under Interval Uncertainty, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
  - Z. Volkovich, Z. Barzily, B. Akteke-Öztürk and G.-W. Weber, Cluster Stability Using Minimal Spanning Trees, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
  - G.-W. Weber, Prof. Dr. Alexander Rubinov, EUROPT Fellow 2006: One of the Architects in “OR Creates Bridges”, EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; member of Organizing Committee, etc. (cf. above).
  - P. Taylan, G.-W. Weber and N.-N. Urgan, Approximation of Stochastic Differential Equations by Additive Models Using Splines and Conic Programming, Invited Paper, CASYS’07, Eighth International Conference on Computing Anticipatory Systems, Liege, Belgium, August 6-11, 2007 (speaker: S.W. Pickl); member of International Program Committee.
  - G.-W. Weber and P. Taylan, Regression in Financial Mathematics by Additive Models and Continuous Optimization, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
  - B. Akteke-Öztürk and G.-W. Weber, Data Mining for Quality Improvement Data with Nonsmooth Optimization vs. PAM and k-Means, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
  - G. Köksal, S. Kayaligil and G.-W. Weber, Data Mining in Quality Improvement, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
  - F. Summers, S.T. Elias-Özkan and G.-W. Weber, Kerkenes Team: a Short Presentation and Demonstration on the Kerkenes Eco-Center Project Activities, Invited Lecture, The 2nd Summer School “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”, Kiev, August 8-20, 2007.
  - G.-W. Weber, S.Z. Alparslan-Gök, B. Akteke-Öztürk, S. Özögür, P. Taylan, A. Tezel and Ö. Uğur, Inverse Problems in Gene-Environment Networks, 6th ISAAC Congress, METU, Ankara, August 13-18, 2007.
  - B. Akteke-Öztürk and G.-W. Weber, Data Mining: Clustering - The Use of

- Optimization Theory, Graduate Summer School on New Advances in Statistics, Invited Lecture, METU, August 11-24, 2007.
- S. Özögür and G.-W. Weber, Data Mining: Classification - The Example of Support Vector Machines, Invited Lecture, Graduate Summer School on New Advances in Statistics, METU, August 11-24, 2007.
  - P. Taylan and G.-W. Weber, Data Mining: Regression - The Example of Spline Regression and MARS, Graduate Summer School on New Advances in Statistics, Invited Lecture, METU, August 11-24, 2007.
  - A. Işcanoğlu, G.-W. Weber and P. Taylan, Predicting Default Probabilities with Generalized Additive Models for Emerging Markets, Graduate Summer School on New Advances in Statistics, METU, August 11-24, 2007 (Invited Lecture).
  - G.-W. Weber, B. Akteke-Öztürk, P. Taylan, S. Özögür Akyüz, S.Z. Alparslan-Gök, Optimization and Dynamics of Gene-Environment Networks, Operations Research 2007, Saarbrücken, September 5-7, 2007; Chairman of a session.
  - A. Gökmen, I. Gökmen, G.-W. Weber and D. Dinçel, Güneşköy 2007, Video Conference on Complex Societal Problems, METU, Ankara, and University of Amsterdam, December 11, 2007.
  - G.-W. Weber, Workshop in Memory of Professor Hayri Hayri Körezlioğlu (1930 — 2007), Speech at the Opening Session, Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus in Memory of Professor Hayri Körezlioğlu, METU, Ankara, April 25-26, 2008; member of Organizing Committee, Chair of OC, member of Program Committee; Chairman of a session.
  - G.-W. Weber, P. Taylan, E. Kropat and Z.-K. Görgülü, Approximation of Stochastic Differential Equations by Additive Models Using Regression, Splines and Conic Programming, Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus in Memory of Professor Hayri Körezlioğlu, METU, Ankara, April 25-26, 2008.
  - G.-W. Weber, S.Z. Alparslan-Gök, D. DeTombe, H. Önder, E. Kropat and Z.-K. Görgülü, Applied Mathematics Used in Complex Societal Problems, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008; member of Organizing Committee, member of Program Committee, Chair; Chairman of a session.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür Akyüz, E. Kropat, Z.-K. Görgülü and D. DeTombe, Data Mining Used in Complex Societal Problems, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
  - G.-W. Weber, S.Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü and D. DeTombe, Gene-Environment Networks — the Financial Aspect Included, “Work-

- shop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
- G.-W. Weber, Short Presentation: Indonesian Oil — Native Owned and Producing Oil Wells on the Island of Java, near CEPU, based on a presentation of Allen Johnson, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
  - F. Summers, S.T. Elias-Ozkan and G.-W. Weber, Community Participation in Kerkenes, “Workshop on Complex Societal Problems, Sustainable Living and Development”, IAM, METU, Ankara, May 13-16, 2008 (cf. above).
  - G.-W. Weber, E. Kropat and S.Z. Alparslan Gök, Semi-Infinite and Conic Optimization in Modern Human, Life and Financial Sciences under Uncertainty, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008; member of Organizing Committee; Co-Chair of OC; Chairman of a session.
  - Z. Barzily, Z.V. Volkovich, B. Akteke-Öztürk and G.-W. Weber, Cluster Stability Using Minimal Spanning Trees, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
  - S. Özögür and G.-W. Weber, Learning with Infinitely many Kernels via Semi-Infinite Programming, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
  - P. Taylan, G.-W. Weber and F. Yerlikaya, Continuous Optimization Applied in MARS for Modern Applications in Finance, Science and Technology, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
  - B. Akteke-Öztürk, G.-W. Weber and E. Kropat, Continuous Optimization Approaches for Minimum Sum of Squares, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
  - G.-W. Weber, 8 Years EUROPT — EURO Working Group on Continuous Optimization, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
  - G.-W. Weber, Professor Kees Roos - EUROPT Fellow 2008, 20th Mini-EURO Conference *Continuous Optimization and Knowledge-Based Technologies*, Neringa, Lithuania, May 20-23, 2008 (cf. above).
  - M. Kahraman, H. Öktem, G.-W. Weber and M.U. Akhmet, Using Piecewise Linear Systems with Delay to Grab the Functional Dynamics in Biological Systems, International Symposium on Health Informatics and Bioinformatics, Turkey’08, Istanbul, Turkey, May 18-20, 2008.

- F. Yerikaya, G.-W. Weber, P. Taylan, I. Batmaz and G. Köksal, MARS algoritmasında Tikhonov düzenlemesi ve çok amaçlı optimizasyon kullanımı, Operational Research and Industrial Engineering Annual Conference (YA/EM'08), Galatasaray University, Istanbul, Turkey, June 30 - July 2, 2008.
- B. Akteke-Öztürk, G. Köksal and G.-W. Weber, Çekicilik Fonksiyonları: Pürüzlü Optimizasyon ile Yeni Yaklaşımlar Operational Research and Industrial Engineering Annual Conference (YA/EM'08), Galatasaray University, Istanbul, Turkey, June 30 - July 2, 2008.
- G.-W. Weber, 8 Years EUROPT — EURO Working Group on Continuous Optimization, EngOpt 2008 - International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008; member of International Organizing Committee, Chairman of a session.
- E. Kropat, G.-W. Weber and B. Akteke-Öztürk, Eco-Finance Networks under Uncertainty, EngOpt 2008 - International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008 (cf. above).
- G.-W. Weber, S. Zeynep Alparslan-Gök and C. Pdamallu, Solution Approaches for Solving Gene-Environment Network Models - a Survey, EngOpt 2008 - International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008 (cf. above).
- P. Taylan, G.-W. Weber, D. Sezer, I. Batmaz, G. Köksal and F. Yerlikaya, Continuous Optimization Applied in MARS for Modern Applications in Finance, Science and Technology, IFORS 2008, Sandton, South Africa, July 13-18, 2008; Stream Organizer, Session Organiser, Chairman of a Session.
- G.-W. Weber and P. Taylan, Organization in Finance Prepared by Stochastic Differential Equations with Additive and Nonlinear Models and Continuous Optimization, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
- G.-W. Weber, P. Taylan, I. Batmaz, G. Köksal and F. Yerlikaya, Multivariate Adaptive Regression Spline and Continuous Optimization for Modern Applications in Science, Economy and Techology, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
- E. Kropat, G.-W. Weber and B. Akteke-Öztürk, Semi-Infinite and Conic Optimization in Human and Financial Sciences under Uncertainty, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür Akyüz, E. Kropat, Z.-K. Görgülü and D. DeTombe, Data Mining



- Used in Complex Societal Problems, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
- D. DeTombe and G.-W. Weber, Global Safety - Complex Societal Issues, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
  - G.-W. Weber, 8 Years EUROPT — EURO Working Group on Continuous Optimization, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
  - G.-W. Weber, S.Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü and D. DeTombe, Gene-Environment Networks — the Financial Aspect Included, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
  - G.-W. Weber, EURO XXIII in Bonn, July 5 — 8, 2009 — Conference Topic: Operations Research: Creating Competitive Advantage (by E. Pesch), 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics”(AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
  - G.-W. Weber, S.Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü, D. DeTombe and C. Peadamallu, Environmental and Life Sciences - Gene-Environment Networks, 3rd Open Summer School-Seminar “Achievements and Applications of Contemporary Informatics, Mathematics and Physics” (AACIMP-2008), Kiev, Ukraine, August 11-24, 2008 (Invited Talk).
  - G.-W. Weber and S. Özögür Akyüz, Infinite Kernel Learning by Semi-infinite Optimization, International Conference Operations Research (OR 2008), Annual Conference of the German OR Society, University of Augsburg, Germany, September 3-5, 2008, Chairman of a Session.
  - G.-W. Weber, B. Akteke-Öztürk, E. Kropat and Z.-K. Görgülü, Gene-Environment Networks - Optimization and Dynamics, OR50 Annual Conference York, UK, September 9-11, 2008.
  - G.-W. Weber, S. Özögür Akyüz, E. Kropat and Z.-K. Görgülü, Gene-Environment Networks - a New Approach in Finance, Life Sciences and Development, OR50 Annual Conference York, UK, September 9-11, 2008.
  - G.-W. Weber, EURO XXIII in Bonn, July 5 — 8, 2009 — Conference Topic: Operations Research: Creating Competitive Advantage (by E. Pesch), OR50 Annual Conference York, UK, September 9-11, 2008.
  - E. Kropat and G.-W. Weber, Gene-Environment Networks under Uncertain-

- ty, Mini EURO Conference on Computational Biology, Bioinformatics and Medicine Rome, Italy, September 15-17, 2008; Member of Program Committee.
- G.-W. Weber and B. Karasözen, Research on Computational Biology, Workshop at the Occasion of Visit by Members of Max-Planck Institutes, Middle East Technical University, Ankara, November 11, 2008.
  - G.-W. Weber, On Research at Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, Workshop: Middle East Technical University (METU) - Max Planck Institute (MPI) für Dynamik komplexer technischer Systeme Magdeburg, MPI Magdeburg, February 9, 2009.
  - G.-W. Weber, On Research at Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, Workshop: Middle East Technical University (METU) - Max Planck Institute (MPI) für Mathematik in den Naturwissenschaften, Leipzig, MPI Leipzig, February 10, 2009.
  - G.-W. Weber, On Research at Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey, Workshop: Middle East Technical University (METU) - Max Planck Institute (MPI) Stuttgart, MPI for Metals Research, Stuttgart, Department of New Materials and Biosystems, Stuttgart, February 11, 2009.
  - E. Kürüm, K. Yıldırak and G.-W. Weber (speaker), A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, Nonlinear Analysis and Applications — Nonlinear 09 (Conference of Memory of National Academy of Science of Ukraine Valery Sergeevich Melnik), Kiev, Ukraine, April 2-4, 2009.
  - G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, B. Akteke-Öztürk, A. Özmen and S. Özögür-Akyüz, New Contributions to Mathematical Data Mining: C-MARS and Infinite Kernel Learning, Nonlinear Analysis and Applications — Nonlinear 09 (Conference of Memory of National Academy of Science of Ukraine Valery Sergeevich Melnik), Kiev, Ukraine, April 2-4, 2009.
  - G.-W. Weber, E. Kropat and Z. Alparslan-Gök, On Gene Pattern Prediction under Uncertainty, HIBIT 2009 — 4th International Symposium on Health Informatics and Bioinformatics, Ankara, Turkey, April 16-18, 2009; member of Organizing Committee, Chairman of a Session.
  - G.-W. Weber, E. Kürüm and K. Yıldırak, A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, Workshop on Recent Developments in Applied Probability and Statistics, Dedicated to the Memory of Professor Jürgen Lehn, April 23-24, 2009; member of Program Committee and member of Organizing Committee.
  - S. Özögür-Akyüz and G.-W. Weber, Infinite kernel learning by infinite and semi-infinite programming, Second Global Conference on Power and Optimi-

- zation, PCO2009, Bali, Indonesia, June 1-3, 2009; Member of International Reviewers and Program Committee, and of Steering Committee, Chairman of a Session.
- Z. Volkovich, Z. Barzily, G.-W. Weber and D. Toledano-Kitai, Cluster stability estimation based on a minimal spanning trees approach, Second Global Conference on Power and Optimization, PCO 2009, Bali, Indonesia, June 1-3, 2009.
  - G.-W. Weber, 9 Years EUROPT — EURO Working Group on Continuous Optimization, Second Global Conference on Power and Optimization, PCO 2009, Bali, Indonesia, June 1-3, 2009.
  - G.-W. Weber, Participation at CREMMA Meeting, Visit at El Manar University, Tunis, Tunisia, June 26, 2009.
  - G.-W. Weber, P. Taylan, E. Kürüm and K. Yildirak, Two New Contributions to Financial Mathematics by Continuous Optimization, 7th EUROPT Workshop “Advances in Continuous Optimization”, Remagen, Germany, July 3-4, 2009; Member of Organizing Committee and of Program Committee.
  - M.A. López-Cerdá and G.-W. Weber (speaker), 9 Years EUROPT — EURO Working Group on Continuous Optimization, 7th EUROPT Workshop “Advances in Continuous Optimization”, Remagen, Germany, July 3-4, 2009.
  - A. Gökmen, I. Gökmen and G.-W. Weber, Sustainable Living: Social, Economical, Ecological and World View, A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium, Remagen, Germany, July 3-4, 2009; Member of Workshop (Organizing and Program) Committee, Chairman of a Session.
  - P.C. Sekhar, L. Özdamar, G.-W. Weber and E. Kropat, A System Dynamics Model for Intentional Transmission of HIV/AIDS, A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium, Remagen, Germany, July 3-4, 2009.
  - G.-W. Weber, On Two New Contributions to Data Mining by and within of Modern Operations Research by Optimization Theory and Computational Statistics, State-of-the-Art Workshop Related to EURO XXIII / EURO Working Groups OR for Development, Ethics, Decision making, Methodology of Societal Complexity and others; Member of Workshop (Organizing and Program) Committee, Chairman of a Session.
  - E. Kürüm, K. Yildirak and G.-W. Weber, A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
  - E. Kalayci, M. Aslan, G.-W. Weber and A. Bebel Ismaila, Stochastic Portfolio Optimization in the Nigerian Electricity Sector, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
  - K. Yildirak, E. Kürüm and G.-W. Weber, Modifying ROC Curve for Dia-

- gnostic Systems with more than Two Classes, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
- B. Akteke-Öztürk, G. Koksals and G.-W. Weber, Nonsmooth Optimization of Desirability Functions by MSG Algorithm, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
  - F. Yerlikaya Özkurt, P. Taylan, I. Batmaz, G. Koksals and G.-W. Weber, A Modification of MARS by Tikhonov Regularization and Conic Quadratic Programming for Modeling Quality Data, EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
  - G.-W. Weber and B. Akteke-Öztürk, Introduction into Operational Research and Its Mathematical Problems, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
  - B. Akteke-Öztürk and G.-W. Weber, Clustering Theory and Techniques, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
  - Z. Volkovich, Z. Barzily, G.-W. Weber and D. Toledano-Kitai, Clustering Theory — Cluster Number and Cluster Stability Estimation, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
  - S. Özögür-Akyüz and G.-W. Weber, Classification Theory Modelling of Kernel Machine by Infinite and Semi-Infinite Programming, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
  - G.-W. Weber, I. Batmaz, G. Köksals, F. Yerlikaya, P. Taylan, E. Kartal, E. Kürüm and A. Özmen, Regression Theory with Additive Models and CMARS, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
  - G.-W. Weber and B. Akteke-Öztürk, On Foundations of Continuous Optimization, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
  - B. Akteke-Öztürk and G.-W. Weber, Nonsmooth Optimization, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.

- G.-W. Weber and B. Akteke-Öztürk, Elements of Semi-Infinite and Robust Optimization, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- B. Akteke-Öztürk and G.-W. Weber, Quality Control and Improvement in Manufacturing, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- G.-W. Weber, V. Jafarova, N. Erbil, C.A. Gökçen and P. Taylan, Prediction of Financial Processes — Parameter Estimation in Stochastic Differential Equations by Continuous Optimization, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- G.-W. Weber, E. Kürüm and K. Yildirak, Prediction of Credit Default by Continuous Optimization, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- G.-W. Weber, B. Akteke-Öztürk, Z. Alparslan-Gök, Ö. Ugur, H. Öktem, P. Taylan, E. Kropat and Ö. Defterli, Modelling, Dynamics and Development of Gene-Environment and Eco-Finance Networks, 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- G.-W. Weber, 9 Years EUROPT — EURO Working Group on Continuous Optimization, presentation distributed at 4th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 5-16, 2009.
- G.-W. Weber, K. Yildirak and E. Kürüm, A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 — October 2, 2009.
- G.-W. Weber, N. Erbil, C.E. Can, V. Gafarova, A. Kerimov and P. Taylan, Parameter Estimation in Stochastic Differential Equations by Continuous Optimization, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 — October 2, 2009.
- S. Özogur-Akyüz, G. Üstünkar and G.-W. Weber, Numerical Optimization Methods for Infinite Kernel Learning, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 — October 2, 2009.

- F. Yerlikaya Özkurt, G.-W. Weber and A. Özmen, Robustification of CMARS, 14th International Congress on Computational and Applied Mathematics (IC-CAM), Antalya, Turkey, September 29 — October 2, 2009.
- G. Ustunkar, S. Özögür-Akyuz, U. Sezerman, G.-W. Weber and N. Baykal, Application of Advanced Machine Learning Methods For SNP Discovery in Complex Disease Association Studies, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 — October 2, 2009.
- G.-W. Weber, E. Kropat and C.S. Pedomallu, Identification, Optimization and Dynamics of Regulatory Networks under Uncertainty, 14th International Congress on Computational and Applied Mathematics (ICCAM), Antalya, Turkey, September 29 — October 2, 2009.
- Z. Volkovich, G.-W. Weber and R. Avros, On an Adjacent Cluster Merit, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- S.Z. Alparslan Gök and G.-W. Weber, Cooperative Games under Ellipsoidal Uncertainty, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- C.S. Pedomallu, L. Özdamar, G.-W. Weber and E. Kropat, A System Dynamics Model to Study the Importance of Infrastructure Facilities on Quality of Primary Education System in Developing Countries, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- V. Strijov and G.-W. Weber, Nonlinear Regression model Generation Using Hyperparameters Optimization, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- P. Taylan, G.-W. Weber and L. Liu, On Foundations of Parameter Estimation for Generalized Partial Linear Models with B-splines and Continuous Optimization, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- Ö. Defterli, A. Fügenschuh and G.-W. Weber, New Discretization and Optimization Techniques with Results in the Dynamics of Gene-Environment Networks, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- T. Paksoy, E. Özceylan and G.-W. Weber, A Multi Objective Model for Optimization of a Green Supply Chain Network, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- B. Akteke Öztürk, G. Köksal and G.-W. Weber, Optimization of Desirability Functions as a DNLP model by GAMS/BARON, PCO 2010, 3rd Global

- Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
- I. Batmaz, F. Yerlika-Özkurt, E. Kartal-Koc, G. Köksal and G.-W. Weber, Evaluating the CMARS Performance for Modeling Nonlinearities, in the proceedings of PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
  - E. Özceylan, T. Paksoy, E. del Rosario, E. Kropat and G.-W. Weber, A Review on the State of the Energy Sector of Turkey from the Perspective of Operational Research - an Invitation by OR -, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
  - G.-W. Weber, 9 Years EUROPT - EURO Working Group on Continuous Optimization, PCO 2010, 3rd Global Conference on Power Control and Optimization, February 2-4, 2010, Gold Coast, Queensland, Australia.
  - G.-W. Weber, participation at Pre-Workshop of Bioinformatics before HIBIT 2010, Antalya, Turkey, April 20, 2010.
  - S. Sarikaya, G.-W. Weber and Y. Serinagaoglu Dogrusöz, Combination of Conventional Regularization Methods and Genetic Algorithm for Solving the Inverse Problem of Electrocardiography, HIBIT 2010 - 5th International Symposium on Health Informatics and Bioinformatics, April 20-22, 2010, Lara, Antalya, Turkey; Member of Program Committee, Chairman of a Session.
  - G.-W. Weber, R. Branzei, S.Z. Alparslan Gök and N. Gökgöz, Recent Advances in Data Mining and Their Potential in Life and Human Sciences and Game Theory, HIBIT 2010 - 5th International Symposium on Health Informatics and Bioinformatics, April 20-22, 2010, Lara, Antalya, Turkey (Keynote Lecture).
  - C.S. Pdamallu, L. Özdamar, G.-W. Weber and E. Kropat, A System Dynamics Model to Study the Importance of Infrastructure Facilities on Quality of Primary Education System in Developing Countries, HIBIT 2010 - 5th International Symposium on Health Informatics and Bioinformatics, April 20-22, 2010, Lara, Antalya, Turkey.
  - G.-W. Weber, Participation at PC Meeting of EURO XXIV 2010 (Lisbon), Visit at University of Lisbon, Portugal, May 22-23, 2010.
  - G.-W. Weber, E. Kropat, L. Özdamar, C. Rave and C.S. Pdamallu, Model Approach for Infrastructure Quality of Primary Education Facilities Impact Analysis, ALIO/INFORMS Joint International Meeting, June 6-9, 2010, Buenos Aires, Argentina (Cluster Chair).
  - G.-W. Weber, E. Kürüm and E. Kropat, Financial Processes: Identification, Optimization and Bubbles — New Unified Approaches, 24th MEC-EurOPT 2010 - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23-June 26, 2010 (Conference Co-Chair,

Stream Organizer, Session Chair).

- B. Akteke Öztürk, G.-W. Weber and G. Köksal, A Class of Piecewise-Smooth Functions Motivated by Desirability Functions, 24th MEC-EurOPT 2010 - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23 - June 26, 2010.
- G.-W. Weber, R. Branzei and S.Z. Alparslan Gök, On Cooperative Ellipsoidal Games, 24th MEC-EurOPT 2010 - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23 - June 26, 2010.
- A. Özmen, G.-W. Weber and I. Batmaz, The New Robust CMARS (RCMARS) Method, 24th MEC-EurOPT 2010 - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23 - June 26, 2010.
- C. Güleroglu, G.-W. Weber, P. Taylan and K. Yildirak, Parameter Estimation in Stochastic Differential Equations, 24th MEC-EurOPT 2010 - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23 - June 26, 2010.
- G.-W. Weber, 10 Years soon - EUROPT - EURO Working Group on Continuous Optimization, 24th MEC-EurOPT 2010 - Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, June 23 - June 26, 2010.
- G.-W. Weber, Some New OR and Mathematical Methods for Regulatory Networks in Bio Sciences and Environment Related, invited presentation, YAEM 2010, 30th Annual Congress of the OR Society in Turkey, June 30 - July 2, 2010, Istanbul, Turkey (Session Chair).
- G.-W. Weber, Participation at PC Meeting of OR 2010 (Munich), Visit at Universität der Bundeswehr, Munich, Germany, June 16-17, 2010.
- A. Özmen, G.-W. Weber and I. Batmaz, RCMARS-Sağlam CMARS Yöntemi ve Sayısal bir Uygulama, IGS 7 2010 (7th Statistics Days Symposium), Middle East Technical University, Ankara, June 28-30, 2010.
- G.-W. Weber, On Cooperative Games under Ellipsoidal Uncertainty, International Conference on Modelling, Optimization and Dynamics, University of Porto, Portugal, July 4-10, 2010 (Member of Scientific Committee).
- G.-W. Weber, IFORS Prize for OR in Development, International Conference on Modelling, Optimization and Dynamics, University of Porto, Portugal, July 4-10, 2010.
- C.S. Pdamallu, L. Ozdamar, G.-W. Weber and E. Kropat, A System Dynamics Model to Study the Importance of Infrastructure Facilities on Quality of Primary Education System in Developing Countries, A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium, University of Lisbon, Portugal, July 10, 2010 (Member of Conference



- (OC, PC) Committee, Session Chair).
- G.-W. Weber, IFORS Prize for OR in Development, A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium, University of Lisbon, Portugal, July 10, 2010.
  - G.-W. Weber, S.Z. Alparslan-Gök and R. Branzei, On Ellipsoidal Collaborative Games, “State-of-the-Art Workshop — a Workshop Related to EURO XXIV / EUROPT / EURO ORD / EUROMSC / Ethics — Mutual Session of Special Researchers of EURO Working Groups: OR and Developing Countries, Ethics, Methodology of Societal Complexity, Optimization, MCDA”, Lisbon, Portugal, July 11, 2010 (Member of PC and member of OC).
  - G.-W. Weber, On Identification and Optimization of Financial Processes, 8th EUROPT Workshop Advances in Continuous Optimization, Aveiro, Portugal, July 9-10, 2010 (Member of OC, Session Chair).
  - G.-W. Weber (with M.A. Lopez-Cerda), 10 Years EUROPT - EURO Working Group on Continuous Optimization, 8th EUROPT Workshop Advances in Continuous Optimization, Aveiro, Portugal, July 9-10, 2010.
  - F. Yerlikaya-Özkurt, P. Taylan and G.-W. Weber, Parameter Estimation for Semiparametric Models with CMARS and Its Applications, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - G.-W. Weber, New Unified Approaches on Identification and Optimization of Financial Processes, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - G. Üstünkar, S. Özögür-Akyüz, G.-W. Weber and N. Baykal, Application of Advanced Machine Learning Methods for tag SNP selection in complex disease association studies, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - E. Kürüm and G.-W. Weber, Modelling Financial Bubbles by Stochastic and Ellipsoidal Calculus and Copulas, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - E. Kropat, G.-W. Weber and S. Belen, Gene-Environment Networks under Ellipsoidal Uncertainty, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - S. Özögür-Akyüz, G. Üstünkar and G.-W. Weber, Adapted Infinite Kernel Learning by Multi-Local Algorithm, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - P. Taylan, F. Yerlikaya-Özkurt and G.-W. Weber, A New Contribution to Mean Shift Outlier Model with Continuous Optimization, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - O.T. Altinöz, A.E. Yilmaz and G.-W. Weber, Novel Approaches in Particle Swarm Optimization and Potential Applications in OR, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010 (in abstract booklet).

- S. Belen, G.-W. Weber and E. Kropat, A Discussion on the Hamiltonian Dynamical Systems, Integrable Systems and Dynamical System of Diffusion of Information, EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010 (in abstract booklet).
- G.-W. Weber, New Mathematical Tools for the Financial Sector, 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, July 28-31, 2010 (Member of International PC; Co-Organizer of a Symposium on Mathematical Methods from Probability, Optimization and Data Mining in Finance, Life and Human Sciences, Session Co-Chair).
- A.E. Yilmaz and G.-W. Weber, Why You Should Consider Nature-Inspired Optimization Methods in Financial Mathematics, 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, July 28-31, 2010.
- Ö. Defterli, A. Fügenschuh and G.-W. Weber, New Mathematical Tools for the Financial Sector, 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, July 28-31, 2010.
- A. Özmen, G.-W. Weber, I. Batmaz and E. Kropat, RCMARS: Robustification of CMARS with Different Scenarios under Polyhedral Uncertainty Set, 3rd Conference on Nonlinear Science and Complexity, Ankara, Turkey, July 28-31, 2010.
- G.-W. Weber, R. Branzei and S.Z. Alparslan-Gök, On the Ellipsoidal Core for Cooperative Games under Ellipsoidal Uncertainty, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
- G.-W. Weber, E. Kropat, L. Özdamar, C. Rave and C.S. Pedamallu, Model Approach for Infrastructure Quality of Primary Education Facilities Impact Analysis, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
- G.-W. Weber, Ö. Defterli and A. Fügenschuh, New Advances in Prediction of Gene-Environment Networks by Applied Mathematics Tools, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
- G.-W. Weber, New Mathematical Tools for the Financial Sector, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
- G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of

- the Ukraine, Kiev, Ukraine, August 3-15, 2010.
- G.-W. Weber, Application of Monte Carlo Methods in Finance, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - G.-W. Weber, A. Özmen, I. Batmaz and E. Kropat, RCMARS: Robustification of CMARS with Different Scenarios under Polyhedral Uncertainty Set, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - G.-W. Weber, K. Yildirak and E. Kürüm, A Classification Problem of Credit Risk Rating Investigated and Solved by Optimization of the ROC Curve, 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - F. Yerlikaya-Özkurt, G.-W. Weber and P. Taylan, Parameter Estimation for Semiparametric Models with CMARS and Its Applications, distributed at 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - E. Özceylan, T. Paksoy, E. Del Rosario, E. Kropat and G.-W. Weber, A Review on the State of the Energy Sector of Turkey from the Perspective of Operational Research, distributed at 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - G.-W. Weber, N. Erbil, C. Can, V. Gafarova, A. Kerimov and P. Taylan, Parameter Estimation in Stochastic Differential Equations by Continuous Optimization, distributed at 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - M.A. Lopez-Cerda and G.-W. Weber, 10 Years EUROPT - EURO Working Group on Continuous Optimization, distributed at 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August 3-15, 2010.
  - G.-W. Weber, P. Taylan and L. Liu, On Foundations of Parameter Estimation for Generalized Partial Linear Models with B-Splines and Continuous Optimization, distributed at 5th International Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine, Kiev, Ukraine, August

3-15, 2010.

- F. Yaman, A.E. Yilmaz and G.-W. Weber, Genetik Algoritma ile Doğrusal Anten Dizisi Tasarımında Çekicilik Fonksiyonu Kullanımının İncelenmesi (Investigation of Applicability of the Desirability Functions at Linear Antenna Array Design via Genetic Algorithm), URSI 5. National Congress, Güzelyurt, Cyprus, August 25-27, 2010.
- Ö. Defterli, G.-W. Weber, E. Kropat, S.Z. Aparslan Gök and A. Fügenschuh, Modeling, Inference and Optimization of Regulatory Networks Based on Time Series Data, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010 (Co-Chair of both International OC and PC; Organizer of a Topic on OR in Life Sciences and Education - Trends, History and Ethics, Session Chair).
- E. Kropat and G.-W. Weber, Identification and Optimization of Target-Environment Networks under Ellipsoidal Uncertainty, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- A. Özmen, G.-W. Weber and I. Batmaz RCMARS - The New Robust CMARS Method, OR 2010 - International Conference Operations Research, Munich, September 1-3, 2010.
- B. Kayhan, G. Celik, G.-W. Weber and B. Karasözen Parameter Estimationin Generalized Partial Linear Models with Tikhonov Regularization and Conic Quadratic Programming, OR 2010 - International Conference Operations Research, Munich, September 1-3, 2010.
- G.-W. Weber, R. Branzei and S.Z. Alparslan Gök, On the Ellipsoidal Core for Cooperative Games under Ellipsoidal Uncertainty, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- E. Özceylan, T. Paksoy, E. Del Rosario, E. Kropat, E. Kalayci and G.-W. Weber, A Review on Development States as Expressed by the Energy Sector — The Examples of Turkey and the Philippines, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- E. Özceylan and G.-W. Weber, Comparing the Transportation Modes in Logistics: An Analytic Hierarchy Process Based Decision Support System, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- G.-W. Weber, C.S. Pedamallu, L. Özdamar, E. Kropat and H. Akar, A System Dynamics Model to Study the Importance of Infrastructure Facilities on Quality of Primary Education System in Developing Countries, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- G. Üstünkar, S.Ö. Akyüz, G.-W. Weber and Y. Aydin Son, Analysis of SNP-Complex Disease Association A Machine Learning Approach, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.

- B. Akteke-Öztürk, G. Köksal and G.-W. Weber, Optimization of Desirability Functions, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- P. Taylan, F. Yerlikaya Özkurt and G.-W. Weber, A New Contribution to Mean Shift Outlier Model with Continuous Optimization, OR 2010 - International Conference on Operations Research, Munich, September 1-3, 2010.
- R. Branzei, S.Z. Alparslan Gök and G.-W. Weber, On the Ellipsoidal Core for Cooperative Games under Ellipsoidal Uncertainty, EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010 (Member of International OC; Co-Organizer of a Minisymposium on Continuous Optimization, Session Chair).
- P. Taylan, F. Yerlikaya-Özkurt and G.-W. Weber, Parameter Estimation for Semiparametric Models with CMARS and its applications, EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
- V. Strijov, G.-W. Weber and I. Dolgoplova, Model Generation and Mathematical Modelling, abstract published, EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
- G.-W. Weber, 10 Years EUROPT - EURO Working Group on Continuous Optimization, EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
- G.-W. Weber, Participation at *Kerkenes Festival*, Archeological and Ecovillage Project (METU, Ankara), Kerkenes, Yozgat, Turkey, October 2, 2010.
- B. Belen, M.E. Özel and G.-W. Weber, Some Notes on the Milesian School and Its Scholar, Thales of Miletus, World Universities Congress, Canakkale, Turkey, October 20-24, 2010.
- G.-W. Weber, EURO XXV, 8-11 July, 2012, Vilnius, Lithuania — EURO 2012, World Universities Congress, Canakkale, Turkey, October 20-24, 2010.
- G.-W. Weber, IFORS Prize for OR in Development, World Universities Congress, Canakkale, Turkey, October 20-24, 2010.
- G.-W. Weber, 10 Years EUROPT - EURO Working Group on Continuous Optimization, World Universities Congress, Canakkale, Turkey, October 20-24, 2010.
- G.-W. Weber, E. Kürüm, A. Kerimov, C. Güleroglu and T. Gonuz, New Mathematical Tools for the Financial Sector, VI Moscow International Conference on Operations Research (ORM2010), Moscow, Russia, October 20-25, 2010 (Member of OC);  
visit of Lomonosov Moscow State University and of Computing Centre of the Russian Academy of Sciences.

- G.-W. Weber, A. Özmen and I. Batmaz, RCMARS: The New Robust CMARS Method, VI Moscow International Conference on Operations Research (ORM 2010), Moscow, Russia, October 20-25, 2010.
- G.-W. Weber, EURO XXV, 8-11 July, 2012, Vilnius, Lithuania — EURO 2012, VI Moscow International Conference on Operations Research (ORM2010), Moscow, Russia, October 20-25, 2010.
- G.-W. Weber, IFORS Prize for OR in Development, VI Moscow International Conference on Operations Research (ORM2010), Moscow, Russia, October 20-25, 2010.
- G.-W. Weber, 10 Years EUROPT - EURO Working Group on Continuous Optimization, VI Moscow International Conference on Operations Research (ORM2010), Moscow, Russia, October 20-25, 2010.
- G.-W. Weber, R. Branzei and S.Z. Alparslan Gök, On the Ellipsoidal Core for Cooperative Games under Ellipsoidal Uncertainty, presentation distributed at VI Moscow International Conference on Operations Research (ORM2010), Moscow, Russia, October 20-25, 2010.
- G.-W. Weber, V. Purutcuoglu (presenter), T. Can and Ö.E. Özsoy, Partner 6: METU — Middle East Technical University - Ankara Turkey, Kick-off meeting, PathoSYS New Algorithms for Host Pathogen Systems Biology, Bio-Quant Center, Universität Heidelberg, Germany, October 28-29, 2010.
- G.-W. Weber, Testimonial for Professor Kees Roos by Gerhard-Wilhelm Weber, at occasion of the Official Farewell Speech (or Exaugural Address) of Prof. Dr. Kees Roos on December 10, 2010 (<http://www.youtube.com/watch?v=xOjdNpJZckY>).
- G. Üstünkar, S. Özögür-Akyüz and G.-W. Weber, SNP-Complex Disease Association by Simulated Annealing Approach, 8th International Conference on Optimization: Techniques and Applications (ICOTA8), Shanghai, China, December 10-13, 2010 (Member of International PC, Session Chair).
- E. Kürüm, N. Azevedo, D. Pinheiro and G.-W. Weber, Stochastic Control of Hybrid Systems with Applications to Finance, 8th International Conference on Optimization: Techniques and Applications (ICOTA8), Shanghai, China, December 10-13, 2010.
- G.-W. Weber, 10 Years EUROPT - EURO Working Group on Continuous Optimization, 8th International Conference on Optimization: Techniques and Applications (ICOTA8), Shanghai, China, December 10-13, 2010.
- Z. Cobandag and G.-W. Weber, Risk modeling in optimization problems via Value at Risk and Conditional Value at Risk, NEDETAS 2011 - New Developments in Theory and Applications of Statistics: An International Conference Dedicated to the Memory of Moti Lal Tiku, Ankara, Turkey, May 2-4, 2011.
- B.Z. Temocin, N. Azevedo, D. Pinheiro and G.-W. Weber, Stochastic hybrid systems and applications in finance, NEDETAS 2011 - New Developments in

Theory and Applications of Statistics: An International Conference Dedicated to the Memory of Moti Lal Tiku, Ankara, Turkey, May 2-4, 2011.

- A. Özmen, Z. Cavusoglu and G.-W. Weber, Predicting Default Probabilities in Emerging Markets by New Robust Conic GPLMs and Their Optimization, NEDETAS 2011 - New Developments in Theory and Applications of Statistics: An International Conference Dedicated to the Memory of Moti Lal Tiku, Ankara, Turkey, May 2-4, 2011 (abstract).
- E. Quek, V. Purutcuoglu, R. Sambanthamurthi and G.-W. Weber, Modelling Lipid Biosynthesis Pathways of Oil Palms by Boolean and Graphical Approaches, 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011 (member of PC, Session Chair).
- G.-W. Weber, Ö. Defterli, L. Özdamar, S. Zeynep Alparslan Gök, C.S. Pedamallu, B. Temocin and Y. Yildiz (Keynote Lecture), How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions?, 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011  
with the appendix ...
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli and A. Fügenschuh, Research Progress and New Applications of Eco-Finance Networks and Cooperative Game Theory, 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011.
- G.-W. Weber, 11 Years EUROPT - EURO Working Group on Continuous Optimization (Izmir edition), distributed at 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Izmir edition), distributed at 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011.
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Izmir edition), distributed at 6th HIBIT 2011, International Symposium on Health Informatics and Bioinformatics, Izmir, Turkey, May 2-5, 2011.
- G.-W. Weber, Unraveling Complex Systems - an Introduction, Workshop on Complex Systems and Mathematics, Mathematics Awareness Month, IAM, METU, Ankara, May 26, 2011.
- V. Purutcuoglu, coauthors: E. Wit, G.-W. Weber and E. Quek Poh, Stochastic Simulation of Biochemical Networks, Workshop on Complex Systems and Mathematics, Mathematics Awareness Month, IAM, METU, Ankara, May 26, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli and A. Fügenschuh

- (Keynote Lecture), Recent Discrete-Continuous Contributions to Cooperative Game Theory and Eco-Finance Networks, The 24th Conference of the European Chapter on Combinatorial Optimization, ECCO 2011, Amsterdam, May 30 — June 1, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Amsterdam edition), distributed at the occasion of The 24th Conference of the European Chapter on Combinatorial Optimization, ECCO 2011, Amsterdam, May 30 — June 1, 2011.
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Amsterdam edition), distributed at the occasion of The 24th Conference of the European Chapter on Combinatorial Optimization, ECCO 2011, Amsterdam, May 30 — June 1, 2011.
  - G.-W. Weber, Participant at *Informatics Festival, 15th Anniversary Celebration* of Informatics Institute, METU, Ankara, Turkey, June 9-10, 2011.
  - B.Z. Temocin, G.-W. Weber, N. Azevdo and D. Pinheiro, Applications of hybrid systems in finance, The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011 (Session Chair).
  - G.-W. Weber, S.Z. Alparslan Gök and E. Kropat, Recent advances on ellipsoidal cooperative games, The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011.
  - G.-W. Weber and N.A. Zenkevich, 11 Years EUROPT — EURO Working Group on Continuous Optimization (St. Petersburg edition), ...
  - G.-W. Weber and N.A. Zenkevich (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (St. Petersburg edition), and ...
  - G.-W. Weber and N.A. Zenkevich (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (St. Petersburg edition), The Fifth International Conference *Game Theory and Management*, GTM 2011, St. Petersburg, Russia, June 27-29, 2011.
  - G.-W. Weber, Participation at PC Meeting of EURO 2012, Radison Blu Hotel Lietuva, Vilnius, Lithuania, June 29 - July 1, 2011.
  - S. Belen Akgümüş and G.-W. Weber, Epidemik kuramı ve sölentinin yayımını stokastik süyeçlerinin karşılaştırması üzerine, YAEM 2011, 31th Annual Congress of the OR Society in Turkey, July 5-7, 2011, Sakarya, Turkey.
  - G.-W. Weber, A. Özmen, Z. Cavusolu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance and Regulatory Systems: Prediction of Credit Default and a Process Version, 9th EUROPT Workshop on Advances in Continuous Optimization, Ballarat, Australia, July 8-9, 2011



(member of PC).

- G.-W. Weber, M.A. Lopez-Cerda and O. Stein, 11 Years EUROPT — EURO Working Group on Continuous Optimization (Ballarat edition), ...
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (Ballarat edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Ballarat edition), 9th EUROPT Workshop on Advances in Continuous Optimization, Ballarat, Australia, July 8-9, 2011.
- G.-W. Weber, E. Kropat, Ö. Defterli, A. Fügenschuh and B.Z. Temocin, Eco-Finance Networks: Recent Continuous-Discrete Models, Optimization and Control IFORS 2011 — 19th Triennial Conference of the International Federation of Operational Research Societies, Melbourne, Australia, July 10-15, 2011 (member of PC, various times Stream Organizer and Session Chair).
- E. Kropat and G.-W. Weber, Robust Regression Analysis for Complex Regulatory Networks in Finance, Computational Biology and Life Sciences, IFORS 2011, Melbourne, Australia, July 10-15, 2011.
- F. Yerlikaya Özkurt, P. Taylan and G.-W. Weber, Mean Shift Outlier Model with MARS and Continuous Optimization, IFORS 2011, Melbourne, Australia, July 10-15, 2011.
- G.-W. Weber, Z. Dzalilov, A. Bagirov, M. Mammadov, A. Kruger, J. Yearwood, X. Yang, M.A. Lopez-Cerda, J.E. Martinez-Legaz, V. Jeyakumar, M. Sniedovich, A. Eberhard, R. Burachik and P. Tobin, Memorial Session in Honour of Professor Alexander Rubinov, panel session IFORS 2011, Melbourne, Australia, July 10-15, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (Ballarat Petersburg edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Melbourne edition), IFORS 2011, Melbourne, Australia, July 10-15, 2011.
- G.-W. Weber, X. Sun, L. Özdamar, C.S. Pedamallu, H. Akar, B. Temocin, A. Kerimov, E. Kürüm and C.E. Can (Keynote Lecture), On the Prediction of Dynamics under Different Assumptions on Time and Uncertainty, Taishan Scholars Academic Forum on Applied Mathematics, Taishan, Shandong Province, China, July 15-20, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat and Ö. Defterli, F. Yerlikaya-Özkurt and A. Fügenschuh (Keynote Lecture), Research Progress and New Applications of Eco-Finance Networks and Cooperative Game Theory, InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011 (member of the International Committee).

- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli (Keynote Lecture), Prediction of Default Probabilities in Emerging Markets and of Dynamical Regulatory Networks by New Robust Conic GPLMs and Their Optimization, InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011.
- G.-W. Weber, Ö. Defterli, L. Özdamar, C.S. Pedomallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm, Anticipation of Dynamics under Various Time and Uncertainty Assumptions, InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Medan edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Medan edition), InteriOR — International Seminar on Operational Research, Medan, Indonesia, July 27-28, 2011.
- G.-W. Weber, Ö. Defterli, L. Özdamar, S.Z. Alparslan-Gök, C.S. Pedomallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm (Keynote Lecture), Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011 — The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, August 1-5, 2011.
- V. Purutcuoglu, T. Erdem and G.-W. Weber, Inference of the JAK-STAT Gene Network via Graphical Models, distributed at the occasion of Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011, Baden-Baden, Germany, August 1-5, 2011.
- G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Appendix — Modern Financial Sector: Impulsive and Stochastic Hybrid Systems, distributed at the occasion of Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011, Baden-Baden, Germany, August 1-5, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Baden-Baden edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Baden-Baden edition), distributed at the occasion of Recent Advances in Mathematical Prediction of Dynamics Different Assumptions on Time and Uncertainty, InterSymp'2011, Baden-Baden, Germany, August 1-5, 2011.
- G.-W. Weber (with K. Pereverza, L. Korotchenko and A. Pasichny), History and Results of OR Disciplines - Introduction in a Programme of Summer School AACIMP, 6th International Summer School AACIMP-2011, Achieve-

- ments and Applications of Contemporary Informatics, Mathematics and Physics, National University of Technology of the Ukraine (KPI), Kiev, Ukraine, August 8-20, 2011 (member of the PC and Stream Organizer).
- G.-W. Weber, 11 Years EUROPT — EURO Working Group on Continuous Optimization (Kiev edition), ...
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012 Vilnius, Lithuania (Kiev edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Kiev edition), distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - G.-W. Weber, Stochastic Calculus - Main Results (based on lecture by S. Jaimungal), 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - G.-W. Weber, Ö. Defterli, L. Özdamar, S.Z. Alparslan-Gök, C.S. Pedamallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm, Let Us Predict Dynamics under Various Assumptions on Time and Uncertainty, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - G.-W. Weber, S.Z. Alparslan Gök, E. Kropat and Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, New Insights and Applications of Eco-Finance Networks and Collaborative Games, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Forecasting Default Probabilities in Emerging Markets and Dynamical Regulatory Networks through New Robust Conic GPLMs and Optimization, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Impulsive and Stochastic Hybrid Systems in the Financial Sector, 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - V. Purutcuoglu, T. Erdem and G.-W. Weber, Kiev Summer School: Appendix — Inference of the JAK-STAT Gene Network via Graphical Models, distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
  - T. Paksoy, E. Özceylan, N.Y. Pehlivan and G.-W. Weber, Estimation of Energy Demand of Turkey Particle - Swarm Optimization Approach, distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.

- G.-W. Weber Application of Monte Carlo Methods in Finance (based on dfine lecture, CECAM Workshop 2002), distributed at the occasion of 6th International Summer School AACIMP-2011, KPI, Kiev, Ukraine, August 8-20, 2011.
- G.-W. Weber, E. Kürüm, A. Kerimov, A. Özmen, Ö Defterli and B.Z. Temocin, The OR of Eco-Finance Networks and Cooperative Game Theory under Uncertainty, OR 2011 Zurich, International Conference on Operations Research, August 30 — September 2, 2011, Zurich, Switzerland.
- E. Kürüm and G.-W. Weber, Understanding Dynamics of Financial Bubbles by Geometrical and Topological Aspects, OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
- F. Yerlikaya Özkurt, P. Taylan and G.-W. Weber, CMARS Method for Stochastic Differential Equations, OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
- A. Özmen, M.H. Yildirim, Ö. Türker Bayrak and G.-W Weber, Electricity Price Modelling for Turkey, OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Zurich edition), OR 2011 Zurich, August 30 — September 2, 2011, Zurich, Switzerland.
- G.-W. Weber, E. Akyildiz and V. Purutcuoglu, Applied Mathematics in Biology, Medicine, Environment and Economics, BIOMATH PANEL for Biohealth Computing Joint Program, Joseph Fourier University - METU, Informatics Institute, October 27, 2011.
- G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and V. Strijov (an Invited (Main) Lecture), How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivation of Modern Finance and Economics from Education, Nature and Ecology — Supported by Applied Mathematics, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
- G.-W. Weber, E. Kropat and Z.K. Görgülü, Portfolio Optimization, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
- G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and V. Strijov, Lévy Processes and Related Subjects — Introduction, 1st

- Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
- G.-W. Weber and the aforementioned coauthors, Stochastic Hybrid Systems and Their Optimal Control — Introduction, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - G.-W. Weber and the aforementioned coauthors, Portfolio Optimization Revisited — Introduction, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - G.-W. Weber and the aforementioned coauthors, Related Topics — Conclusion and Outlook, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - G.-W. Weber and the aforementioned coauthors, Lévy Processes and Related Subjects — Appendix, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Robust Conic GPLM — A New Optimization-Based Method under Uncertainty with Applications in Finance and Regulatory Systems, 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - G.-W. Weber, E. Kropat and Z.K. Görgülü, Portfolio Optimization, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - T. Gönüz and G.-W. Weber, Stochastic Hybrid Systems Driven by Lévy Processes, distributed at 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal, January 16-20, 2012.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Lisbon edition), and ...
  - G.-W. Weber (N. Barsoum et al., coauthors), PCO 2012 Las Vegas - Call for Papers (Lisbon edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization

- (Lisbon edition), 1st Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, the Economics and Business School, Technical University of Lisbon, Portugal January 16-20, 2012.
- G.-W. Weber, Recent Advances in Live and Human Sciences, SysPatho Project Workshop, Bahcesehir University, Istanbul, February 16-17, 2012.
  - G.-W. Weber, S. Özögür-Akyüz, Z. Alparslan-Gök, B. Akteke-Öztürk, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, T. Gönüz, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, Dynamics of Network Predicted under Different Assumptions on Time and Uncertainty. Analyses in Education, Finance, Economics, Biology and Medicine — Recent Contributions by Applied Mathematics and OR, Workshop of the GOR Working Groups “*Simulation and optimization of complex systems*”, “*Fuzzy systems, neural networks and artificial intelligence*” together with Siemens AG Corporate Technology GTF modelling, simulation & optimization, Universität der Bundeswehr München, Munich, Germany, February 23-24, 2012 (chair of a session).
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Munich edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Munich edition), Workshop of the GOR Working Groups “*Simulation and optimization of complex systems*”, “*Fuzzy systems, neural networks and artificial intelligence*” together with Siemens AG Corporate Technology GTF modelling, simulation & optimization, Universität der Bundeswehr München, Munich, Germany, February 23-24, 2012.
  - G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, B. Temocin, A. Kerimov, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu and C.E Can, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Finance, Education, Biology, Medicine and Economics, Supported by Research in Modern Applied Mathematics, Workshop on Real Life Applications of Mathematics, Süleyman Demirel University, Isparta, Turkey, February 28, 2012.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11, July, 2012, Vilnius, Lithuania (Isparta edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Isparta edition), distributed at the occasion of Workshop on Real Life Applications of Mathematics, Süleyman Demirel University, Isparta, Turkey, February 28, 2012.
  - V. Purutcuoglu Gazi, Ö. Defterli and G.-W. Weber, Reconstruction of a Com-

- plex Biochemical System and Forecasting Its Behaviour, ECCO 2012 — 25th Conference of European Chapter on Combinatorial Optimization Antalya, Turkey, April 26-28, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, C. Güleroglu and B. Temocin, Recent Advances on Stochastic Hybrid Dynamical Financial Systems: Discrete and Continuous, and Their Optimization, ECCO 2012 — 25th Conference of European Chapter on Combinatorial Optimization Antalya, Turkey, April 26-28, 2012 (co-chair of PC, co-chair of OC, stream organizer and session chair).
  - G.-W. Weber, Opening and Closing Address, ...
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Antalya edition), ...
  - R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Antalya edition), and ...
  - E. Fernandez, S. Nickel (G.-W. Weber, presenter), IFORS 2014, 20th Conference of the International Federation of Operational Research Societies, at the occasion of ECCO 2012 — 25th Conference of European Chapter on Combinatorial Optimization Antalya, Turkey, April 26-28, 2012.
  - G.-W. Weber, Participation at PC Meeting of EURO XXV 2012 (Vilnius), Vilnius, Lithuania, June 1-2, 2012.
  - G.-W. Weber, S. Kuter, A. Kerimov, B.Z. Temocin and E. Kürüm, Prediction of Network Dynamics under Various Time and Uncertainty Assumptions. Investigations in Education, Finance, Economics, Biology and Medicine — Recent Contributions Supported by Optimization, Constructive Nonsmooth Analysis and Related Topics, Euler International Mathematical Institute, St. Petersburg, Russia, June 18-23, 2012.
  - G.-W. Weber, Closing Address, ...
  - R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (St. Petersburg edition), ...
  - E. Fernandez, S. Nickel (G.-W. Weber, presenter), IFORS 2014, 20th Conference of the International Federation of Operational Research Societies, ...
  - N. Barsoum, P. Vasant et al. (G.-W. Weber, presenter), The 6th Global Conference on Power Control and Optimization - PCO 2012 Las Vegas, USA, August 6-8, 2012 (St. Petersburg edition), and ...
  - A. Pasichny, K. Pereverza, et al., (G.-W. Weber, presenter), Summer School, Achievements and Applications of Contemporary Informatics, Mathematics and Physics, Kyiv, Ukraine, August 3-16, 2012 (St. Petersburg edition), distributed at the occasion of Constructive Nonsmooth Analysis and Related

Topics, Euler International Mathematical Institute, St. Petersburg, Russia, June 18-23, 2012.

- A. Vasin, P. Kartunova and G.-W. Weber, Models for capacity and electricity market design, The Sixth International Conference on Game Theory and Management (GTM 2012), St. Petersburg, Russia, June 27-29, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B. Temocin and F. Yerlikaya-Özkurt, Stochastic Hybrid Dynamical Systems in Economy and Finance: Modelling, Optimization and Control, distributed at the occasion of The Sixth International Conference on Game Theory and Management (GTM 2012), St. Petersburg, Russia, June 27-29, 2012.
- G.-W. Weber, Closing Address, ...
- R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (St. Petersburg edition), ...
- E. Fernandez, S. Nickel (G.-W. Weber, presenter), IFORS 2014, 20th Conference of the International Federation of Operational Research Societies, ...
- N. Barsoum, P. Vasant et al. (G.-W. Weber, presenter), The 6th Global Conference on Power Control and Optimization - PCO 2012 Las Vegas, USA, August 6-8, 2012, and ...
- A. Pasichny, K. Pereverza, et al., (G.-W. Weber, presenter), Summer School, Achievements and Applications of Contemporary Informatics, Mathematics and Physics, Kyiv, Ukraine, August 3-16, 2012, at the occasion of GTM 2012, St. Petersburg, Russia, June 27-29, 2012.
- A. Vasin, Y. Sosina and G.-W. Weber, Evaluation of market power in local and two-node markets, International Workshop Networking Games and Management (NGM-2012), Petrozavodsk, Karelia, Russia, June 30 — July 2, 2012.
- G.-W. Weber, A.A. Vasin, A. Kerimov, E. Kürüm, B. Temocin and F. Yerlikaya-Özkurt, Modelling, Optimization and Control of Stochastic Hybrid Dynamics in Economy and Finance, distributed at the occasion of NGM-2012, Petrozavodsk, Karelia, Russia, June 30 — July 2, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B. Temocin and F. Yerlikaya-Özkurt, On Stochastic Hybrid Dynamical Systems in Science and Finance: Continuous and Discrete, Their Modelling, Optimization and Control, The 10th EUROPT Workshop on Advances in Continuous Optimization Siauliai, Lithuania, July 5-7, 2012 (member of the International Programme Committee; session chair).
- G.-W. Weber, A. Bagirov, T. Tchemisova-Cordeiro and J. Zilinskas, Closing Address, ...
- G.-W. Weber, A. Bagirov, T. Tchemisova-Cordeiro and J. Zilinskas, 12 Years EUROPT — EURO Working Group on Continuous Optimization, at the oc-



- casion of The 10th EUROPT Workshop on Advances in Continuous Optimization Siauliai, Lithuania, July 5-7, 2012.
- G.-W. Weber, Dynamics Represented under Different Assumptions on Time and Uncertainty, with Motivations from Education, Development, Environment and Economy, EWG-ORD PhD Workshop “OR for Developing Countries: times of economic crises”, Vilnius, Lithuania, July 7, 2012 (member of OC).
  - G.-W. Weber, A. Özmen and E. Kropat, Spline Regression Models for Complex Multi-modal Regulatory Networks, Workshop on The State of The Art on Complex Problem Handling and Decision Making, Lithuania, July 8, 2012 (member of OC-PC).
  - G.-W. Weber, B. Temocin, A. Karimov, E. Kilic and Y. Yolcu Okur, Stochastic Hybrid Dynamical Financial Systems and Their Optimization, EURO XXV 2012, 25th European Conference on Operations Research, Vilnius, Lithuania, July 8-11, 2012 (member of PC; organizer of main area, stream and sessions).
  - T. Avkar and G.-W. Weber, Parameter Estimation for Stochastic Differential Equations, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
  - A. Özmen, E. Kropat and G.-W. Weber, Robust Optimization in Spline Regression Models for Target-Environment Networks, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
  - S. Kuter, Z. Akyürek, G.-W. Weber and A. Özmen, Testing of MARS on MODIS Images for Local Atmospheric Correction, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
  - F. Yerlikaya Özkurt and G.-W. Weber, Estimation of Multi-dimensional Stochastic Differential Equations with CMARS Method, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
  - H. Venceslau, L. Nascimento, A.E. Xavier and G.-W. Weber, A Novel Approach for Solving the Geometric Distance Problem, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
  - E. Kartal Koc, C. Iyigun, I. Batmaz and G.-W. Weber, Restructuring the forward step of CMARS by a mapping approach, EURO XXV 2012, Vilnius, Lithuania, July 8-11, 2012.
  - G.-W. Weber, J. Webb, E. Kropat, A. Özmen and S.Z. Alparslan-Gök (keynote lecture), Robust Regression Models for Gene-Environment and Eco-Finance Networks, under Ellipsoidal Uncertainty, The 6th Global Conference on Power Control and Optimization - PCO 2012, Las Vegas, USA, August 6-8, 2012 (member of the Steering Committee).
  - G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine,

August 3-16, 2012 (member of PC, Advisor).

- G.-W. Weber Application of Monte Carlo Methods in Finance (based on dfine lecture, CECAM Workshop 2002), AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutuoglu, Z. Alparslan-Gök, Özlem Defterli, L. Özdamar, C.S. Pedomallu, E. Kropat and V. Strijov, Dynamics Modeled and Predicted under Different Time and Uncertainty Assumptions. Motivations from Education, Finance and Economy, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, Application of Monte Carlo Methods in Finance (based on dfine lecture, CECAM Workshop 2002), AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B.Z. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, E., V. Purutcuoglu, Z. Alparslan-Gök, T. Gönüz, V. Strijov, D. Pinheiro and N. Azevedo, Lévy Processes and Related Subjects — Introduction, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temoin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedomallu, E. Kropat and V. Strijov, Lévy Processes and Related Subjects — Appendix, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, B. Temocin, A. Kerimov, E. Kilic, D. Pinheiro and N. Azevedo, Portfolio Optimization under Stochastic Hybrid Systems with Impulses — Introduction, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, D. Pinheiro, N. Azevedo, Azer Kerimov, E. Kürüm, B. Temoin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedomallu, E. Kropat and V. Strijov, Portfolio Optimization under SHSI — Revisited (i), AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.

- G.-W. Weber, B.Z. Temocin, A. Iscanoglu Cekic and A. Kerimov, Portfolio Optimization under SHSI — Revisited (ii), AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber and F. Yerlikaya Özkurt, Estimation of Multi-Dimensional Stochastic Differential Equations with MARS Method, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Forecasting Default Probabilities in Emerging Markets and Dynamical Regulatory Networks through New Robust Conic GPLMs and Optimization, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, A. Özmen and E Kropat, Spline Regression Models for Complex Multi-modal Regulatory Networks, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012 .
- G.-W. Weber, Stochastic Calculus - Main Results (based on lecture by S. Jaimungal), AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- S. Kuter, Z. Akyürek, G.-W. Weber and A. Özmen, Testing of MARS on MODIS Images for Local Atmospheric Correction, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, Ö. Defteri, L. Özdamar, Z. Alparslan-Gök, C.S. Pedamallu, B.Z. Temocin, A. Kerimov, C.E. Can and E. Kürüm, Predicting Dynamics under Various Assumptions on Time and Uncertainty, distributed at AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- V. Purutcuoglu, T. Erdem and G.-W. Weber, Kyiv Summer School: Appendix — Inference of the JAK-STAT Gene Network via Graphical Models, distributed at AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- T. Paksoy, E. Özceylan, N.Y. Pehlivan and G.-W. Weber, Estimation of Energy Demand in Turkey via Particle Swarm Optimization, distributed at AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv,

Ukraine, August 3-16, 2012.

- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, New Insights and Applications of Eco-Finance Networks and Collaborative Games, distributed at AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, J. Webb, E. Kropat, A. Özmen, S.Z. Alparslan-Gök (keynote lecture), Robust Regression Models for Gene-Environment and Eco-Finance Networks, under Ellipsoidal Uncertainty, The 6th Global Conference on Power Control and Optimization - PCO 2012, Las Vegas, USA, August 6-8, 2012.
- D. de Werra and G.-W. Weber (presenter), IFORS: The Global OR Community Introduction to IFORS, at 7th International Summer School, AACIMP-2012, ...
- M. Grazia Speranza and G.-W. Weber (presenter), EURO; from Opening Session at EURO XXV 2012 in Vilnius, Lithuania, ...
- G.-W. Weber, 12 Years EUROPT — EURO Working Group on Continuous Optimization (Kyiv edition), ...
- E. del Rosario and G.-W. Weber (presenter), IFORS — International Federation of Operational Research Societies: Your Global Community at Work, ...
- P. Dell’Olmo et al. (G.-W. Weber, presenter), EURO - INFORMS Joint International Conference 2013, July 1-4, Rome, and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July, Session EURO Opportunities, AACIMP-2012 — 7th Summer School on Achievements and Applications of Contemporary Informatics, Mathematics and Physics - AACIMP-2012, Kyiv, Ukraine, August 3-16, 2012.
- G.-W. Weber, A. Kerimov, B. Temocin, A. Iscanoglu Cekic, The OR of Stochastic Hybrid Dynamical Systems and Their Role in Finance, Economics and Science, OR 2012 - The International Annual Conference of the German Operations Research Society, Hannover, Germany, September 4-7, 2012.
- G.-W. Weber, Closing Address, ...
- P. Dell’Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Hanover edition), ...
- E. Fernandez, G.-W. Weber (S. Nickel, presenter), IFORS 2014, 20th Conference of the International Federation of Operational Research Societies, OR 2012, Hannover, Germany, September 4-7, 2012.
- G.-W. Weber, Presentations of

<https://www.dropbox.com/sh/gmwnq1a4kmm3brh/pR1ad7COga> provided to SysPatho Workshop: *Systems Biology and Medicine*, St. Petersburg / Pushkin, Russia, September 11-14, 2012.

- G.-W. Weber, E. Kilic (presenter), B. Temocin, A. Kerimov, Y. Yocu Okur, S. Belen, E. Kropat, E. Kürüm, A. Özmen and F. Yerlikaya Özkurt (invited lecture), Operational Research, Optimization and Optimal Control of Stochastic Hybrid Systems and Their Applications in Economy and Finance, OPTFIN2012, Tirgu-Mures, Romania, December 4-7, 2012.
- G.-W. Weber, F. Yerlikaya Özkurt, E. Kilic, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm and A. Özmen, Some Advances in Modeling, Optimization and Optimal Control of Stochastic Dynamics Applications in Economy, Finance, Biology and Environment, presentation conveyed at 32nd International Conference on Organizational Science Development, Conference Centre in Portoroz, Slovenia, March 20-22, 2013, and at Faculty of Organization, University of Maribor, Slovenia.
- G.-W. Weber, participation at PC meeting for EURO-INFORMS 2013 at University La Sapienza, Rome, Italy, April 10-12, 2013.
- G.-W. Weber, Y. Yocu Okur, F. Yerlikaya Özkurt, E. Kilic, B. Temocin, A. Kerimov, C. Vardar-Acar, E. Kürüm, A. Özmen and S. Kestel (Invited Lecture), Recent Advances in Optimization and Optimal Control of Stochastic Dynamics - Applications in Finance, Economics and Life Sciences, International School of Mathematics “G. Stampacchia”, 59th Workshop -Nonlinear Optimization: a Bridge from Theory to Applications Erice, Italy, June 10 - 17, 2013 (invited speaker, session chair).
- E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling 13th - 18th July, distributed/shared at the occasion of the aforementioned workshop.
- E. Kilic, A. Karimov and G.-W. Weber, Applications of Stochastic Hybrid Systems in Portfolio Optimization, ...
- E. Kürüm, G.-W. Weber and C. Iyigün, Financial Bubbles, ...
- G.-W. Weber, S. Kuter, F. Yerlikaya-Özkurt, E. Kilic and A. Karimov, Investigating Stochastic Hybrid Systems within the Frame of Portfolio Optimization by Modern Applied Mathematics, ...
- O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Interval obligation rules for minimum interval cost spanning tree situations, distributed/shared at the occasion of International School of Mathematics “G. Stampacchia”, 59th Workshop - Nonlinear Optimization: a Bridge from Theory to Applications Erice, Italy, June 10 - 17, 2013.
- O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Cooperative interval games: forest situations with interval data, Game Theory and Management, The

- Seventh International Conference, GTM2013, June 26-28, 2013, St. Petersburg, Russia, Abstracts, St. Petersburg University and The International Society of Dynamic Games (Russian Chapter) (2013).
- G.-W. Weber, Y. Yocu Okur, B. Temocin and S. Zeynep Alparslan Gök, Recent Advances on Stochastic Hybrid Systems with Jumps in Finance and Related Fields, 11th EUROPT Workshop on Advances in Continuous Optimization, Florence, Italy, June 26-28, 2013 (member of PC; organizer of sessions).
  - G.-W. Weber, T. Tchemisova and O. Stein, 13 Years EUROPT EURO Working Group on Continuous Optimization, Opening Session, 11th EUROPT Workshop on Advances in Continuous Optimization, Florence, Italy, June 26-28, 2013.
  - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling 13th - 18th July, distributed at Joint ICORD EURO-ORD Workshop "Operations Research: Addressing Issues of Development", Rome, Italy, June 27-28, 2013 (member of PC).
  - G.-W. Weber and F. Yerlikaya Özkurt, A New Theory of Identifying Multi-dimensional Dynamics Under Uncertainty by Using CMARS Method, Satellite Workshop of The State of The Art on Problem Handling and Decision Making, Rome, Italy, June 30, 2013 (member of PC-OC).
  - G.-W. Weber, Disclosure and Certificate Handing-Over at the occasion of the "EthOR Ceremony" of the Best-Paper Contest of EURO WG "Ethics and OR", EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013 (member of PC; organizer of main areas, streams and sessions).
  - G.-W. Weber, B. Temocin, A. Kerimov and E. Kilic, New Advances in the in the Financial Sector and Their Impacts in Economics and Sustainability, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - A. Özmen and G.-W. Weber, Evaluating the Performance of Robust Multivariate Adaptive Regression Splines (RMARS) by Simulation and an Application in Finance under Polyhedral Uncertainty, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, A Novel Non-parametric Adaptive Regression Methodology for Ground Motion Prediction, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - M.H. Yildirim and G.-W. Weber, A New Robust Electricity Market Model under Uncertainties, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - Ö. Defterli, A. Fügenschuh and G.-W. Weber, Higher-Order Numerical Me-

- thods for the Discrete Dynamics and Anticipation of Genetic Regulatory Systems, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
- A. Karimov, E. Kilic and G.-W. Weber, Stochastic Hybrid Systems in Portfolio Optimization: Parameter Estimation and Simulation, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - S. Kuter, G.-W. Weber, Z. Akyürek and Ayse Özmen, Incorporating the modern techniques of continuous optimization within spatial analysis, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - B. Akteke-Öztürk, G.-W. Weber and G. Köksal, Robust Optimization of Generalized Desirability Functions, EURO XXVI 2013 EURO-INFORMS Joint International Conference, Rome, Italy, July 1-4, 2013.
  - G.-W. Weber, Ö. Defterli, L. Özdamar, Z. Alparslan-Gök, C.S. Pedamallu, B.Z. Temocin, A. Kerimov, C.E. Can and E. Kürüm, Predicting Dynamics Under Various Assumptions on Time and Uncertainty - in Education, Life Sciences, Finance, 8th International Summer School, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, F. Yerlikaya Özkurt, E. Kilic, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm and A. Özmen, Some Advances in Modeling and Optimization of Stochastic Dynamics with Fractional Brownian Motion, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, Y. Yocu Okur, B. Temocin and S.Z. Alparslan Gök, Recent Advances on Stochastic Hybrid Systems with Jumps in Finance and Related Fields, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, Eco-Finance Networks and Collaborative Games, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - M.H. Yildirim and G.-W. Weber, A New Robust Electricity Market Model under Uncertainties, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - M.H. Yildirim, Ö. Türker Bayrak and G.-W. Weber, A New Hybrid Model to Forecast Day-Ahead Electricity Prices: Wavelet-MARS, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - T. Paksoy, E. Özceylan, N.Y. Pehlivan and G.-W. Weber, Estimation of Energy Demand in Turkey - a Particle Swarm Optimization Approach, AACIMP-

- 2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
- Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Minimum Relative Entropy Inversion Method — Application to Inverse ECG Problem, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - V. Purutcuoglu, T. Erdem and G.-W. Weber, Appendix: Inference of JAK-STAT Gene Network by Graphical Models, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, F. Yilmaz and H. Öz, Numerical Solutions of Stochastic Differential Equations, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparслан-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and V. Strijov, Lévy Processes and Related Topics - Appendix, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, A. Kerimov, E. Kürüm, B.Z. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparслан-Gök, Ö. Defterli, E. Kilic, T. Gönüz, V. Strijov, D. Pinheiro and N. Azevedo, Lévy Processes and Related Topics - Introduction, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temoin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparслан-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and V. Strijov, Portfolio Optimization under SHSJ - Revisited (i), AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Forecasting Default Probabilities in Emerging Markets and Dynamical Regulatory Networks with New Robust Conic GPLMs and Optimization, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, A. Özmen and E. Kropat, Complex Multi-modal Regulatory Networks Through Spline Regression Models, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - S. Kuter, G.-W. Weber, Z. Akyürek and A. Özmen, Incorporating the Modern Methods of Continuous Optimization within Spatial Analysis, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - A. Özmen and G.-W. Weber, Evaluating the Performance of Robust Multi-



- variate Adaptive Regression Splines (RMARS), and a Application in Finance under Polyhedral Uncertainty, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
- G.-W. Weber and F. Yerlikaya Özkurt, Identification of Multi-Dimensional Stochastic Differential Equations with MARS Method, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temoin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutuoğlu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedomallu, E. Kropat and V. Strijov, Dynamics Modeled and Predicted under Different Time and Uncertainty Assumptions. Motivations from Education, Finance and Economy, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, E. Kropat, Z.-K. Görgülü, Portfolio Optimization, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, Stochastic Calculus Main Results, based on a lecture by S. Jaimungal, AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, distributed at AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - V. Belton, T. Bedford, G.-W. Weber (presenter), EURO 2015, Glasgow - Scotland UK, distributed at AACIMP-2013, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-17, 2013.
  - G.-W. Weber, E. Kilic, F. Yerlikaya Özkurt, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm, A. Özmen and S. Kestel, Advances in OR, Optimization and Control of Stochastic Dynamics - Applications in Finance, Economics, Biology and Environment, InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
  - G.-W. Weber, C.S. Pedomallu and L. Özdamar, On the Use of Cross Impact Analysis for Primary School Education, InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
  - G.-W. Weber, Robust Counterparts of MARS and CMARS in Regression and Classification: RMARS and RCMARS, InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
  - S. Kuter, G.-W. Weber and A. Özmen, Regional Atmospheric Correction by Conic Multivariate Adaptive Regression Splines, InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
  - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014

- The Art of Modeling, 13th - 18th July, InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
- o V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, InteriOR 2013, Medan, Indonesia, August 25-28, 2013.
- o M.H. Yildirim and G.-W. Weber, A Stochastic-Global Optimization Approach to Electricity Market Model, OR 2013 Conference - the International Conference on Operations Research, Rotterdam, the Netherlands, September 3-6, 2013.
- o G.-W. Weber, E. Kilic, Y. Yolcu Okur, F. Yerlikaya Özkurt, A. Karimov and N.S. Aydin, Advances in Modeling, Optimization and Control of Stochastic Dynamics - Applications in Finance, Economics, Biology and Environment, OR 2013, Rotterdam, the Netherlands, September 3-6, 2013.
- o H. Mawengkang and G.-W. Weber, Recent Advances on Stochastic Hybrid Systems with Jumps in Finance and Related Fields, The Seventh Global Conference on Power Control & Optimization (PCO2013), Kota Kinabalu, Malaysia, October 7-9, 2013 (member of the Steering Committee).
- o G.-W. Weber, S. Kestel, E. Kilic, F. Yerlikaya Özkurt, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm and S.N. Aydin (keynote lecture), Advances in Operational Research and Control of Stochastic Dynamics - Applications in Finance, Economics, Biology and Environment, VII Moscow International Conference on Operations Research (ORM2013), Moscow, October 15-19, 2013 (member of the PC).
- o G.-W. Weber and A. Özmen, Robust counterparts for MARS and CMARS under polyhedral uncertainty, VII Moscow International Conference on Operations Research (ORM2013), Moscow, October 15-19, 2013.
- o S. Kuter, G.-W. Weber, Z. Akyürek and A. Özmen, Benefitting from Modern Methods of Continuous Optimization in Spatial Analysis and Remote Sensing, VII Moscow International Conference on Operations Research (ORM2013), Moscow, October 15-19, 2013.
- o G.-W. Weber, participation at The Round table: "What is happening with the Science and the Education?", VII Moscow International Conference on Operations Research (ORM2013), Moscow, October 15-19, 2013.
- o E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
- o V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, conveyed to ORM2013, Moscow, October 15-19, 2013.
- o F. Yilmaz, H. Öz and G.-W. Weber, Approximation and Numerical Solution of Optimal Stochastic Control Problems for Multi-dimensional Stochastic Differential Equations by Using Itô-Taylor Method with Malliavin Calculus, ICOTA 2013 - The 9th International Conference on Optimization: Techniques

- and Applications (ICOTA 9), Taipei, Taiwan, December 13-15, 2013 (member of the international PC; chair of session).
- E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
  - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, ICOTA 2013 - The 9th International Conference on Optimization: Techniques and Applications (ICOTA 9), Taipei, Taiwan, December 13-15, 2013.
  - G.-W. Weber, B. Temocin, A. Kerimov, E. Kilic, F. Yilmaz, H. Öz, Advances on Optimal Control of Stochastic Hybrid Systems with Jumps in Science, Economics and Finance, EURO Mini-conference on Optimization in the Natural Sciences University of Aveiro, Portugal, February 5-9, 2014 (member of the PC; chair of sessions).
  - G.-W. Weber, 14 Years EUROPT - EURO Working Group on Continuous Optimization, and
  - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
  - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of EURO Mini-conference on Optimization in the Natural Sciences University of Aveiro, Portugal, February 5-9, 2014.
  - G.-W. Weber, Foreigner's Experiences in Turkey, 1st International Student Congress "International in Turkey", METU, Ankara, Turkey, March 22, 2014.
  - G.-W. Weber, Applications of Combinatorial Optimization in the Life Sciences - Recent Advances to Discrete-Continuous Optimal Control of Stochastic Hybrid Systems with Jumps, coauthors: N. Azevedo and D. Pinheiro, ECCO XXVII CO 2014 European Chapter on Combinatorial Optimization, Technische Universität München, Germany, May 1-3, 2014 (member of Organizing Committee, chair of a session).
  - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, ECCO XXVII CO 2014 European Chapter on Combinatorial Optimization, Technische Universität München, Germany, May 1-3, 2014.
  - G.-W. Weber, On Varieties of Multivariate Adaptive Regression Splines and Their Recent Applications, One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey (member of Organizing Committee).
  - E. Kilic, A. Karimov and G.-W. Weber, Recent Advances in Applications of Stochastic Hybrid Systems in Portfolio Optimization, One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey.

- S. Kuter, G.-W. Weber (presenter) and Z. Akyürek, Modern Applied Mathematics for the Classification of Satellite Images, One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey.
- V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey.
- H. Öz, F. Yilmaz and G.-W. Weber, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Differential Equations, International Workshop on Applied Probability (IWAP 2014), “Probability: The Measure of Tomorrow”, Antalya, Turkey, June 16-19, 2014.
- G.-W. Weber, F. Yilmaz and H. Öz, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Partial Differential Equations, VIII International Conference on Game Theory and Management (GTM2014), St. Petersburg, Russia, June 25-27, 2014.
- V. Belton, T. Bedford, G.-W. Weber, N. Zenkevich (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of VIII International Conference on Game Theory and Management (GTM2014), St. Petersburg, Russia, June 25-27, 2014.
- L. Amaya Moreno, Ö. Defterli, A. Fügenschuh and G.-W. Weber, Exploring Genetic Networks with Time-Discrete Dynamics, IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan - Biedrusko (Poland), June 26-28, 2014 (member in OC and PC).
- G.-W. Weber, A. Özmen and E. Kropat, Reconstruction of Gene-Environment Networks Under Uncertainty, IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan - Biedrusko (Poland), June 26-28, 2014.
- V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan - Biedrusko (Poland), June 26-28, 2014.
- G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps, 12th EUROPT Workshop on Advances in Continuous Optimization Perpignan, France, July 10-12, 2014 (member of PC; chair of sessions).
- G.-W. Weber, O. Stein and J. Zilinskas, 14 Years EUROPT - EURO Working Group on Continuous Optimization, 12th EUROPT Workshop on Advances in Continuous Optimization Perpignan, France, July 10-12, 2014.
- V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of 12th EUROPT Workshop on Advances

- in Continuous Optimization Perpignan, France, July 10-12, 2014.
- S. Kuter, G.-W. Weber and Z. Akyürek, Modern OR for the Classification of Satellite Images, Workshop on the State of the Art on Problem Handling and Decision Making, Barcelona, Spain, July 13, 2014.
  - G.-W. Weber, A. Özmen, M.H. Yildirim, New Approach to Day-Ahead Electricity Price Forecasting: MARS and CMARS Models, 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, July 13-18, 2014 (member of the PC, organizer of main areas, streams and sessions).
  - O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Cooperative Games and Bubbles, 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, July 13-18, 2014.
  - L. Pavlenko, O. Dziuba, A. Pasichny, K. Pereverza, D. Fishman, O. Nazarenko and G.-W. Weber, Summer School AACIMP: Introducing Operational Research to the Students with Various Backgrounds, 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, July 13-18, 2014.
  - G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Küüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya-Özkurt, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Özlem Defterli, L. Özdamar, C.S. Pedamallu, E. Kropat and N.S. Aydin, Dynamics Modeled and Predicted under Different Time and Uncertainty Assumptions. In Education, Finance and Economy, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, F. Yilmaz and H. Öz, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Partial Differential Equations, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, A. Özmen and M.H. Yildirim, Day-Ahead Electricity Price Forecasting: MARS and CMARS Models, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps, 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügen-schuh, Eco-Finance Networks and Collaborative Games, 9th International Summer School, AACIMP-2014, National University of Technology of the

Ukraine, Kyiv, Ukraine, August 1-15, 2014.

- V. Belton, T. Bedford, G.-W. Weber, O. Nazarenko and A. Pasichnyi, Video: EURO 2015, Glasgow - Scotland UK, at the occasion of 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, F. Yilmaz and H. Öz, Ito-Taylor Approximation of Optimal Stochastic Control Problems for Stochastic Differential Equations, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Multivariate Adaptive Splines for Linear Inverse ECG Problem, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, A. Özmen and E. Kropat, Disclosure of Gene-Environment Networks Under Uncertainty, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, Ö. Türker Bayrak and M.H. Yildirim, Hybrid Model to Forecast Day-Ahead Electricity Prices: Wavlet-MARS, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- M.H. Yildirim, Ö. Türker Bayrak and G.-W. Weber, Hybrid Model to Forecast Day-Ahead Electricity Prices: Wavlet-MARS, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- M.H. Yildirim and G.-W. Weber, Robust Electricity Market Model under Uncertainties, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, A. Özmen and Y. Yilmaz, A Natural Gas Consumption Forecasting Model for Residential User, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temoin, A. Hayfavi, Y. Yolcu-Okur, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutuolu, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C. Sekhar Pedomallu, E. Kropat and V. Strijov, Lévy Processes and Related Subjects, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, Nonparametric Adaptive Regression for Ground Motion Prediction, conveyed at 9th International

- Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
- G.-W. Weber, G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Forecasting Default Probabilities in Emerging Markets and Dynamical Regulatory Networks through Robust Conic GPLMs, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - S. Kuter, G.-W. Weber and Z. Akyürek, Use of Modern Applied Mathematics in Remote Sensing, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber and F. Yerlikaya Özkurt, Multi-Dimensional Dynamics Under Uncertainty by Using CMARS, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, Stochastic Calculus - Main Results, based on lecture by Prof. S. Jaimungal, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, Application of Monte Carlo Methods in Finance (based on define lecture, CECAM Workshop 2002), conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, O. Stein, J. Zilinskas, 14 Years EUROPT EURO Working Group on Continuous Optimization, conveyed at 9th International Summer School, AACIMP-2014, National University of Technology of the Ukraine, Kyiv, Ukraine, August 1-15, 2014.
  - G.-W. Weber, B. Temocin, D. Pinheiro, N. Azevedo, S. Kestel and N.S. Aydin, Continuous-Discrete Optimal Control of Markov Switching Models and Stochastic Hybrid Systems with Jumps, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
  - A. Özmen, E. Kropat, G.-W. Weber, Robust counterparts for two-modal complex regulatory networks: RMARS and RCMARS, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
  - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, Closing Session, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
  - G. Wäscher, G.-W. Weber (presenter), Joint ORSC/EURO International

- Conference 2015 on Continuous Optimization, Shanghai, May 10-12, 2015, Closing Session, OR2014, International Conference of the German Operations Research Society (GOR), Aachen, Germany, September 2-5, 2014.
- G.-W. Weber, B. Temocin, D. Pinheiro, N. Azevedo, S. Kestel and N.S. Aydin (Keynote Lecture), Continuous-Discrete Optimal Control of Stochastic Hybrid Systems with Jumps - Theory, Methods and Applications in Finance, Economics and Science, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
  - G. Wäscher, G.-W. Weber (presenter), Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, May 10-12, 2015, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
  - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
  - G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching Processes - Applications in Finance, Economics and Science, The First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
  - G.-W. Weber (presenter), Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, May 10-12, 2015, The First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
  - V. Belton, T. Bedford, D. Pisinger, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, The First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
  - S. Kuter, Z. Akyürek and G.-W. Weber, Multi-Spectral Image Classification by Nonparametric Regression Splines, ICRAPAM 2014 - International Conference on Recent Advances in Pure and Applied Mathematics, Antalya, Turkey, November 6-9, 2014.
  - S. Kuter, G.-W. Weber and B. Karasözen, Applied Mathematics for Reconstruction of Satellite Data on Weather and Land-Use, ODTÜ'de Bilim Eglencelidir - 2014, METU, Ankara, Turkey, November 14, 2014.
  - G.-W. Weber, On Optimal Control of Stochastic Hybrid Systems with Jumps and Markov Switching Models and Its Applications, The 3rd International Conference on Complex Dynamical Systems and Their Applications: New Mathematical Concepts and Applications in Life Sciences (CDSC 2014), Ankara, Turkey, November 24-26, 2014.



- G.-W. Weber, Welcome speech, 66th Anniversary of the Universal Declaration of Human Rights “Panel of Gender Inequality”, METU, Ankara, Turkey, December 6, 2014.
- S. Kuter, G.-W. Weber and B. Karasözen, Modern Uygulamalı Matematik ve Modern Sürekli Optimizasyon Bağlamında Parametrik Olmayan Regresyon Eğrilerinin Bilim, Mühendislik ve Finans Alanlarındaki Güncel Uygulamaları, Anadolu Üniversitesi, Akademik Bilişim Konferansı - AB 2015, Eskisehir, Turkey, January 31 - February 6, 2015.
- G.-W. Weber, Participation at EURO-2015 - Joint PC-OC meeting, Glasgow, April 13-14, 2015, with visit of University of Strathclyde, Glasgow, UK, and University of Edinburgh, UK, at April 15, 2015.
- G.-W. Weber, E. Savku, D. Pinheiro and N. Azevedo, Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching Processes - Applications in Finance and Economics, 16th International Symposium on Econometrics, Operations Research and Statistics, Trakya University, Edirne, Turkey, May 7-10, 2015.
- V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, and
- D. Vigo, J. Jozefowska, G.-W. Weber (presenter), EURO 2016, Poznan, Poznan University of Technology, 36 July, 2016, 16th International Symposium on Econometrics, Operations Research and Statistics, Trakya University, Edirne, Turkey, May 7-10, 2015.
- G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku, A New Contribution to Continuous Optimization: Optimal Control of Stochastic Hybrid Systems with Jumps - and its Applications in Finance, Economics and Science, Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai University, China, May 10-12, 2015 (OC co-chair; session chair).
- V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, and
- D. Vigo, J. Jozefowska, G.-W. Weber (presenter), EURO 2016, Poznan, Poznan University of Technology, 36 July, 2016, Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Closing Ceremony, Shanghai University, China, May 10-12, 2015.
- G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku, Optimal Control of Stochastic Hybrid Models in the Framework of Regime Switches in Finance and Economics, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015 (member of the OC; session chair).
- E. Kalayci, A. Inkaya, G.-W. Weber, Effective Risk Measures and Derivatives Pricing in Illiquid Electricity Markets with Random Events, 55th Meeting of

- EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
- M.H. Yildirim, Ö. Türker Bayrak, A.S. Selcuk Kestel and G.-W. Weber, Wavelet Multivariate Adaptive Regression Splines and Their Application to the UK Electricity Market, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
  - E. Köksal and G.-W. Weber, Exchange Rates Forecasting with a New Combined Machine Learning and Statistical Learning Method, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
  - H. Öz, F. Yilmaz and G.-W. Weber, Optimal Control Problems of Stochastic Heat Equation with Runge-Kutta Schemes, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
  - S. Ergun, S.Z. Alparslan Gök, B.B Kirlar and G.-W. Weber, A Game Theoretical Approach to Crypto Cloud Computing and Its Economical and Financial Aspects, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
  - V. Belton, T. Bedford, G.-W. Weber (presenter), EUROXXVII Annual Conference, 12-15 July 2015, University of Strathclyde, and
  - D. Vigo, J. Jozefowska, G.-W. Weber (presenter), EURO 2016, Poznan, Poznan University of Technology, 36 July, 2016, 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
  - A. Cevik, M. Eyüboğlu and G.-W. Weber, MARS metodu ile T1-MR görüntülerine dayalı Alzheimer/MCI erken teşhisi, Hacettepe University - Middle East Technical University Workshop on Neuroscience and Neurotechnology, Ankara, June 9, 2015.
  - Y. Yilmaz, R. Kurz, A. Özmen and G.-W. Weber, A New Algorithm for Condition Monitoring of Gas Turbines, ASME Turbo Expo 2015: Turbine Technical Conference and Exposition, GT2015, Montréal, Canada, June 15-19, 2015.
  - O. Palanci, S.Z. Alparslan Gök, G.-W. Weber and Ü. Kara, A new axiomatization of the interval Shapley value, SING11-GTM2015, European Meeting on Game Theory, St. Petersburg State University, St. Petersburg, Russia, July 8-10, 2015.
  - A. Özmen, G.-W. Weber and I. Batmaz, Precipitation Modeling by Polyhedral RCMARS and Comparison with MARS and CMARS, 13th EUROPT Workshop on Advances in Continuous Optimization, July 8-10, 2015, Edinburgh, United Kingdom (member of the PC and session organizer).

- G.-W. Weber, J. Zilinskas, S. Caferi, D. Kvasov, O. Stein and T. Tchemisova, 15 Years EUROPT - EURO Working Group on Continuous Optimization, conveyed at 13th EUROPT Workshop on Advances in Continuous Optimization, July 8-10, 2015, Edinburgh, United Kingdom.
- F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, Nonparametric Adaptive Regression for Earthquake Prediction, EWG ORD - IFORS Workshop on OR for Development, Glasgow, Scotland, July 9-10, 2015 (member of the workshop committee).
- G.-W. Weber and E. Savku, Optimal Control of Stochastic Hybrid Systems with Jumps and Delay- Background and Applications in OR and Science, State-of-the-Art Workshop of several EURO Working Groups, Glasgow, Scotland, July 12, 2015 (member of the workshop committee).
- S. Kuter, Z. Akyurek, A. Özmen and G.-W. Weber, Recent Applications of Applied Mathematics and Modern Continuous Optimization in Satellite Image Processing, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015 (member of the PC, multiple main area, stream and session organizer).
- E. Savku and G.-W. Weber, Optimal Control of Stochastic Hybrid Delayed Models with an Application to Finance, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- P. Taylan, E. Uysal and G.-W. Weber, Modeling with Nonparametric Logistic Regression Based on Generalized Additive Models and B- Splines, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- Y. Puzanova, O. Molchanovskiy, D. Fishman, O. Nazarenko, K. Pereverza, O. Pasichnyi and G.-W. Weber, Introducing OR for Multidisciplinary Environment: Ten Years Experience of the Summer School AACIMP in Kyiv, Ukraine, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- G.-W. Weber and M.H. Yildirim, Stochastic Portfolio Optimization of UK Electricity Market, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- E. Kilic, F. Yerlikaya Özkurt and G.-W. Weber, GMM Estimation for Semiparametric Models by Conic Optimization: Special Application to Finance, EURO 2015, 27th European Conference on Operational Research, Glasgow, United Kingdom, July 12-15, 2015.
- G.-W. Weber, On Smart Cities and Summer School AACIMP-2015, interview with Radio Voice of Kyiv, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, Welcome address in the Opening Ceremony of Summer School

AACIMP-2015, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.

- E. Fernandez and G.-W. Weber, On EURO ...
- N. Maculan and G.-W. Weber, On IFORS ...
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ...
- G.-W. Weber, On EURO and IFORS, EURO 2016 and IFORS 2017, in the Sponsor and Poster Session of Summer School AACIMP-2015, at the occasion of 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- F. Summers, S.T. Elias-Özkan and G.-W. Weber, Eco-Center Project in Rural Countryside- Kerkenes Team in Anatolia, Turkey, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber. C.S. Pedamallu, E. Kropat, L. Özdamar and C. Raave, Primary Education Facilities in Cities: Infrastructure Quality Management, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- H. Tuydes and G.-W. Weber, Civil Protection and Disaster Management: Transportation Needs, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- M.O. Olgun, O. Palanci, S.Z. Alparslan Gök and G.-W. Weber, Transportation Interval Situations and Related Games, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- A. Özmen and G.-W. Weber, Precipitation Modeling by RCMARS, CMARS and MARS, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- F. Yerlikaya Özkurt, A. Askan and G.-W. Weber, New CMARS Method for Earthquake Prediction, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, E. Savku, N.S. Aydin, D. Pinheiro and N. Azevedo, Modern Finance, Economics and Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps and Delay, 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine,

Kyiv, Ukraine, August 4-18, 2015.

- S. Fores and G.-W. Weber, The Association of European Operational Research Societies (EURO), conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber and M.H. Yildirim Aslan, Electricity Market and Its Stochastic Portfolio Optimization, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, F. Yilmaz and H. Öz, Optimal Control of Stochastic Heat Equation with Symplectic-Partitioned Runge-Kutta Schemes, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, E. Kropat and Z.-K. Görgülü, Portfolio Optimization, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, Stochastic Calculus - Main Results, based on lecture by Prof. S. Jaimungal, conveyed at 10th International Summer School, AACIMP-2015, National University of Technology of the Ukraine, Kyiv, Ukraine, August 4-18, 2015.
- G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku (Plenary Lecture), Optimal control of stochastic hybrid systems with jumps and its applications in finance, economics and science, InteriOR 2015 - The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ...
- S. Fores and G.-W. Weber (provider), On EURO ...
- G.-W. Weber and M.H. Yildirim, Stochastic Portfolio Optimization of the Electricity Market in the UK, InteriOR 2015 - The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- G.-W. Weber, A. Özmen and I. Batmaz, Precipitation Prediction by RC-MARS and Comparison with MARS and CMARS, InteriOR 2015 - The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- G.-W. Weber, E. Savku, N. Azevedo, D. Pinheiro and A.S. Kestel, Optimal Control of Stochastic Hybrid Systems with Jumps under Markov Switching-Processes Applications in the Sectors of Energy, Environment, Finance, and

- Economics, OR2015, International Conference on Operations Research, Vienna, Austria, September 1-4, 2015 (session chair).
- A. Özmen and G.-W. Weber, Natural Gas Consumption Forecasting Models for Residential User with New Robust Optimization, OR2015, International Conference on Operations Research, Vienna, Austria, September 1-4, 2015.
  - G.-W. Weber, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, Closing of OR2015, International Conference on Operations Research, Vienna, Austria, September 1-4, 2015.
  - Y. Yilmaz, A. Özmen and G.-W. Weber, Evsel Doğalgaz Kullanıcılarının, Günlük Bazda Yıllık Tüketimlerinin Tahmin Modellerinin MARS ve CMARS Metotlarıyla Oluturulması, 5th National Operations Research and Industrial Engineering Congress (ORIE 2015), Ankara, Turkey, September 9-11, 2015.
  - H.Öz, G.-W. Weber and F. Yilmaz, Stokastik Diferensiyel denklemlerin Optimal Kontrol Problemlerin ve Çok Düzeyli Monte-Carlo Simülasyonu, 5th National Operations Research and Industrial Engineering Congress (ORIE 2015), Ankara, Turkey, September 9-11, 2015.
  - F. Yilmaz, H.Öz and G.-W. Weber, Multi-level Monte-Carlo Method in optimal control problems of stochastic differential equations with Runge-Kutta methods, European Conference on Numerical Mathematics and Advanced Applications — ENUMATH 2015, Ankara, Turkey, September 14-18, 2015.
  - G.-W. Weber, E. Savku, D. Pinheiro, N. Azevedo (and N.S. Aydin) (plenary lecture), A New Contribution to Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps - with Applications in Finance, Economics and Science, SOR '15, The 13th International Symposium on Operations Research in Slovenia, September 23-25, 2015, Bled, Slovenia (member of Program Committee; co-chairman opening session).
  - D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
  - M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, Opening and Closing Sessions of SOR '15, The 13th International Symposium on Operations Research in Slovenia, September 23-25, 2015, Bled, Slovenia.
  - E. Kilic, G.-W. Weber, D. Pinheiro, Y. Yolcu Okur, N. Azevedo and E. Savku (Keynote Lecture), Continuous-Discrete Optimal Control of Stochastic Hybrid Systems with Jumps and Its Application in Science, Economics and Finance, ICEMIS 2015: International Conference on Engineering & MIS 2015, Istanbul, Turkey, September 24-26, 2015 (member of Steering Committee).
  - G.-W. Weber, E. Savku, N.S. Aydin, A. Kerimov and E. Kilic (Plenary Lecture), Emerging Operational Research, Finance and Economics: Optimal Control under Regime Switches and Paradigm Shifts, ICCESN 2015 - 2nd International Conference on Computational and Experimental Science

- and Engineering, Antalya, Turkey, October, 14-19, 2015 (member of Scientific Committee, and session chair).
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
  - G.-W. Weber (short talk), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ICCESN 2015 - International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, October, 14-19, 2015.
  - F. Yerlikaya-Özkurt, A. Askan and G.-W. Weber, A Hybrid Computational Method based on Convex Optimization for Outlier Problems, INFORMS Annual Meeting 2015, Philadelphia, USA, November 1-4, 2015.
  - G.-W. Weber, Optimal Control of Stochastic Dynamics under Regime Switches, Paradigm Shifts and Delayed - Applications in Economics, Finance and Science, OCA2015 The 6th International Conference on Optimization and Control with Applications, Changsha, China, December 12-14, 2015 (chairman of a session).
  - D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, OCA2015 The 6th International Conference on Optimization and Control with Applications, Changsha, China, December 12-14, 2015.
  - G.-W. Weber, E. Savku, Y. Yolcu-Okur, A. Kerimov, E. Kilic and N.S. Aydin, Optimal Control of Stochastic Systems with Regime Switches, Jumps and Delay Applications in Finance, Economics and Nature, The 12th International Conference on Industrial Engineering, ICIE 2016, Tehran, Iran, January 25-26, 2016.
  - D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), EURO 2016, Poznan, Poland, July 3-6, 2016, at The 12th International Conference on Industrial Engineering, ICIE 2016, Tehran, Iran, January 25-26, 2016.
  - G.-W. Weber, Interview with IRIB (The national TV of Iran), Channels 1 and 4, at the occasion of The 12th International Conference on Industrial Engineering, ICIE 2016, Tehran, Iran, January 25-26, 2016 (broadcasted at January 25, 2016).
  - G.-W. Weber, Stochastic Optimal Control under Regime Switches and Jumps - Applications in Finance, Economics and Nature, Workshop at the Occasion of Visit of ICIE 2016 Delegation to Shiraz, Shiraz University, Shiraz, Iran, January 30, 2016.
  - D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), EURO 2016, Poznan, Poland, July 3-6, 2016, Workshop at the Occasion of Visit of ICIE 2016 Delegation to Shiraz, Shiraz University, Shiraz, Iran, January 30, 2016.
  - G.-W. Weber, Interview with Shiraz Television, at the occasion of Workshop at the Occasion of Visit of ICIE 2016 Delegation to Shiraz, Shiraz University, Shiraz, Iran, January 30, 2016.

- G.-W. Weber and H. Tuydes Yaman, Smart Cities: Better Evacuation, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- G.-W. Weber, C.S. Pedamallu, L. Özdamar and H. Akar, Smart Cities: Improvements in Education of Migrant Students, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- M.O. Olgun, O. Palanci, S.Z. Alparslan Gök and G.-W. Weber (presenter), Transportation Interval Situations and Related Games, conveyed at Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- G.-W. Weber, F. Yerlikaya Öztürk and A. Askan, Smart Cities: Earthquake “Prediction”, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur, A. Kerimov and E. Kilic, Finance, Economics and Nature: Optimal Control of Stochastic Systems with Regime Switches, Jumps and Delay, Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, at the occasion of Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Workshop “OR in a modern world”, Aveiro, Portugal, March 29-31, 2016.
- E. Savku and G.-W. Weber, Optimal Control of delayed Jump-Diffusions with Regimes and an Application to Finance, EURO Working Group for Commodities and Financial Modelling, 57th Meeting, Coimbra, Portugal, May 12-14, 2016.
- E. Savku and G.-W. Weber, Stokastik Hibrit Sistemlerde Optimum Kontrol ve Finansal Uygulamaları, 11. Ankara Matematik Günleri, May 26-27, 2016.
- G.-W. Weber and E. Savku, Stochastic Optimal Control of Hybrid Systems under Regime Switches and Impulsiveness, in Finance, Economics and Nature, 3rd Istanbul-Ankara Workshop on Stochastic Processes, IAM, METU, Ankara, June 16-17, 2016 (chair of a session).
- G.-W. Weber, 10 Years EURO ORD - EURO Working Group OR for Development, EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016.
- G.-W. Weber, C.S. Pedamallu, L. Özdamar, H. Akar and H. Mawengkang, Primary Education in Developing Countries: A System Approach to Understand the Factors that Influence the Quality, EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016 (a Workshop chair and Session Chair).
- G.-W. Weber and E. Savku, Finance, Economics and Nature: Stochastic Op-



- timal Control under Shifts, Switches and Impulses, conveyed at the occasion of EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016.
- G.-W. Weber, A. Özmen and I. Batmaz, Precipitation Modeling by Polyhedral RCMARS, conveyed at the occasion of EURO ORD Workshop on OR for Development, Poznan University of Technology, Poznan, Poland, June 30 - July 1, 2016.
  - G.-W. Weber, J. Zilinskas (presenter), T. Tchemisova, O. Stein, S. Cafieri, R. Burachik, A. Grothey, D. Kvasov, 16 Years EUROPT - EURO Working Group on Continuous Optimization, EUROPT 2016, Warsaw University of Technology, Warsaw, Poland, July 1-2, 2016.
  - G.-W. Weber, E. Savku, N.S. Aydin, and T. Tchemisova (presenter), Optimization and Control Reenters under Stochastic Uncertainty, Jumps, Regime Switches and Paradigms Shifts, EUROPT 2016, Warsaw University of Technology, Warsaw, Poland, July 1-2, 2016.
  - S. Kuter, G.-W. Weber and Z. Akyürek, Artificial Neural Networks vs. Multivariate Adaptive Regression Splines for Sub-Pixel Snow Mapping from Satellite Data, Workshop on the State of the Art and Future Development, Poznan, Poland, July 3-6, 2016 (a Workshop chair).
  - G.-W. Weber, C.S Pedamallu, L. Özdamar, H. Akar and H. Mawengkang, Analyzing and Controlling the Factors Influencing the Quality of Primary Education in Developing Countries, Workshop on the State of the Art and Future Development, Poznan, Poland, July 3-6, 2016.
  - G.-W. Weber, E. Savku and Y. Yolcu Okur, Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay in Finance, Economics and Nature, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016 (PC member, organizer of Main Areas, Streams and Sessions).
  - S. Kuter, Z. Akyürek and G.-W. Weber, Soft Classification of Satellite Data for Snow Mapping by using Multivariate Adaptive Regression Splines, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016.
  - G. Nalcaci, A. Özmen, G.-W. Weber and Ö.M. Gül, Load Forecasting Using Multivariate Adaptive Regression Splines for Turkish Electricity System, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016.
  - G. Nalcaci, M. Atay and G.-W. Weber, Creating Art Based on Mathematics - Revisiting OR via “Deep Learning”, EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland, July 3-6, 2016.
  - G.-W. Weber, E. Savku, Y. Yolcu Okur, A. Karimov, E. Kilic, and M. Balde-mor (presenter), Recent Advances of Optimization and Optimal Control to

- Economics and Finance, The 10th International Conference on Optimization: Techniques and Applications, ICOTA 10, Ulaanbaatar, Mongolia, July 23-26, 2016 (member of International PC, session chair).
- G.-W. Weber, M.G. Speranza and M. Baldemor (presenter), IFORS 2017 - Quebec City, The 10th International Conference on Optimization: Techniques and Applications, conveyed at ICOTA 10, Ulaanbaatar, Mongolia, July 23-26, 2016.
  - G.-W. Weber, C.S. Pedamallu, L. Özdamar, H. Akar and H. Mawengkang, A System Approach to Understand the Factors that influence the Quality of Primary Education in Developing Nations, 28th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2016, Special Focus Symposium on Simulation Based Decision Support and Business Intelligence.
  - M.G. Speranza et al., I. Abi-Zeid and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of 28th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2016, Special Focus Symposium on Simulation Based Decision Support and Business Intelligence.
  - R. Alvarez-Valdes, R. Ruiz, G. Vanden Berghe and G.-W. Weber (presenter), EURO 2018 in Valencia, at the occasion of 28th International Conference on Systems Research, Informatics and Cybernetics, Baden-Baden, Germany, August 1-5, 2016, Special Focus Symposium on Simulation Based Decision Support and Business Intelligence.
  - H. Öz, G.-W. Weber and F. Yilmaz, Order Conditions of Symplectic Partitioned Runge-Kutta Method for Stochastic Optimal Control Problems, The 5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016), Belgrade, Serbia, August 16-19, 2016.
  - G.-W. Weber, E. Savku, N.S. Aydin and B. Temocin, Optimal Control of Stochastic Hybrid Systems under Regime Switches, Impulsiveness and Delay, in Finance, Economics and Nature, OR 2016 Hamburg, International Conference on Operations Research - Annual Conference of GOR, Hamburg, Germany, August 30- September 2, 2016.
  - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, OR 2016 Hamburg, International Conference on Operations Research - Annual Conference of GOR, Hamburg, Germany, August 30- September 2, 2016 (Closing Session).
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, OR 2016 Hamburg, International Conference on Operations Research - Annual Conference of GOR, Hamburg, Germany, August 30- September 2, 2016 (Closing Session).
  - G.-W. Weber, C. Sekhar Pedamallu, L. Özdamar, H. Akar and H. Maweng-

- kang (invited speech), Controlling Factors which Influence the Quality of Primary Education in Developing Countries, ICCESN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
- G.-W. Weber, E. Savku and A.S. Kestel, Optimal Control in Economics Revisited under Stochastic Uncertainty, Jumps, Regime Switches and Paradigms Shift, ICCESN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016 (member of Scientific Committee; chairing of a session).
  - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, conveyed at ICCESN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, conveyed at ICCESN 2016, 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
  - Ö.N. Onak, Y. Serinagaoglu Dogrusöz and G.-W. Weber, Çok Değişkenli Uyarlanabilir Regresyon Eğrilerinin Ters EKG Problemine Uygulanması — Application of Multivariate Adaptive Regression Splines for Inverse ECG Problem, BIYOMUT 2016 - XX. Biyomedikal Mühendisliği Ulusal Toplantısı, Izmir, Seferhisar, Turkey, November 3-9, 2016.
  - E. Avcı-Sürücü, W. Ketter and G.-W. Weber, Modelling Electricity Balancing Market Prices And Premiums, INFORMS Annual Meeting 2016, Nashville, USA, November 13-16, 2016.
  - E. Avcı-Sürücü, W. Ketter and G.-W. Weber, Modelling Electricity Balancing Market Prices And Premiums: A Non-parametric Non-linear Approach, INFORMS Annual Meeting 2016, Nashville, USA, November 13-16, 2016.
  - G.-W. Weber and E. Savku, Optimal Control in Economics and Finance under Stochastic, Impulsive, Regime Switching and Delay Uncertainty (keynote speech in absence), The 3rd International Conference on industrial Engineering & Sustainable Management (IESM16), Isfahan, Iran, December 13-15, 2016 (member of Scientific Committee); both Video and Slides (PDF file) in the conference package.
  - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, The 3rd International Conference on industrial Engineering & Sustainable Management (IESM16), Isfahan, Iran, December 13-15, 2016, in the conference package.
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, The 3rd International Conference on industrial Engineering & Sustainable Management (IESM16), Isfahan, Iran, December 13-15, 2016,

in the conference package.

- S. Kuter, Z. Akyürek and G.-W. Weber, Fractional Snow Cover Mapping From MODIS Data Over European Alps by Multivariate Adaptive Regression Splines, 8th EARSeL Workshop on Land Ice and Snow, February 7-9, 2017, Bern, Switzerland.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments in economics and finance, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017 (member on International Scientific Committee; chairman of a session; keynote lecture within stream).
- G. Nalcaci, M. Ermis, A. Özmen and G.-W. Weber, Long-Term Load Forecasting - Comparison of Models Based on MARS, ANN and SVR Methods, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- B. Kalayci, A. Özmen, A. Kerimov and G.-W. Weber, Identification of Systems of Stochastic Differential Equations For Generalized Model Classes in Financial Mathematics Including Investor Sentiment, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- P. Taylan, E. Uysal and G.W. Weber, A Comparative Study on Classification by Nonparametric Regression, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- E. Köksal, A. Özmen, and G.-W. Weber, Modeling of Exchange Rates by Multivariate Adaptive Regression Splines and Comparison with Classical Statistical Methods, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- Ö. Defterli, A. Özmen and G.-W. Weber, A Real-World Application for Genetic Regulatory Networks via Spline Regression Models, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- A. Özmen and G.-W. Weber, A Review of R(C)MARS and (C)MARS with a Comparison Study, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, Conference Announcements for OR Community, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, April 27-29, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, Conference Announcements for OR Community, International Workshop of Mathematical Methods in Engineering (MME 2017), Ankara,

Turkey, April 27-29, 2017.

- E. Savku and G.-W. Weber, An Optimal Consumption Problem For a Stochastic Hybrid Model With Delay, SIAM Conference on Control and Its Applications (CT17), Pittsburgh, USA, July 10-14, 2017.
- G.-W. Weber and E. Savku, Stochastic Optimal Control of Hybrid Systems with Impulses in a World of Regime Switches and Paradigm Shifts, Impulsiveness, in Finance, Economics and Nature, EUROPT 2017 - 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- G.-W. Weber, J. Zilinskas (presenter), G. Bigi, S. Caferi, A. Grothey, D. Kvasov, E. Minisci and F. Schoen, 17 Years EUROPT - EURO Working Group on Continuous Optimization, in the session of EUROPT Fellow Lecture of EUROPT 2017 - 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz, G. Vanden Berghe and J. Zilinskas (speaker), EURO 2018 in Valencia, in Closing Session of EUROPT 2017 - 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- S. Kuter, B.B. Ciftci and G.-W. Weber, Snow Cover Mapping from Satellite Data by Artificial Neural Networks and Support Vector Machines - an OR Contribution to Land-Use, Water Management and Development, International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- G.-W. Weber and C. Brugha, EURO 2018 in Dublin, Ireland, International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- G.-W. Weber, E. Savku, A. Kerimov, N.S. Aydin, Stochastic optimal control of impulsive systems under regime switches and paradigm shifts, in biology, finance and economics, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- E. Kürüm, G.-W. Weber and C. Iyigün, A geometrical approach to forecast burst-time of stock market bubbles, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, P.C. Sekhar, L. Ozdamar, H. Akar and H. Mawengkang, A system approach to understand the factors that influence the quality of primary education in developing nations, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, F. Summers, S. Elias Özkan and M. Baldemor (presenter),

- The Kerkenes eco-center project in Central Anatolia, Turkey, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
  - G.-W. Weber and C. Brugha, EURO 2018 in Dublin, Ireland, 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
  - G.-W. Weber, In Gratitude and Love to late Professor Miroljub “Miro” Kljajic, video, to appear at Session to the Memory of Professor Miroljub Kljajic at InterSymp 2017 - The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, July 31 - August 4, 2017 (technical assistance: MSc. Emre Akdogan, IAM, METU).
  - G.-W. Weber, G.-W. Weber, R. Alvarez-Valdes, R. Ruiz, G. Vanden Berghe and D. Kofjac (speaker), EURO 2018 in Valencia, conveyed at InterSymp 2017 - The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, July 31 - August 4, 2017.
  - B. Kalayci, A. Özmen, A. Karimov and G.-W. Weber, Identification of Coupled Systems of Stochastic Differential Equations in Finance Including Investor Sentiment by Multivariate Adaptive Regression Splines (MARS), InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
  - S. Kuter and G.-W. Weber, Modern Continuous Optimization for Processing Satellite Data, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
  - G.-W. Weber, H. Öz Bakan and F.N. Yilmaz, Minimal Truncation Error Constants for Symplectic Partitioned Runge-Kutta Method for Stochastic Optimal Control Problems, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
  - G.-W. Weber, E. Savku, N. Azevedo and D. Pinheiro, Stochastic optimal control under impulsive, regime switching and paradigm shifting environments in economics and finance, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
  - G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2018 in Dublin, Ireland, InteriOR 2017 (The 4th International Conference on Operational Research), Medan, Indonesia, August 21-23, 2017.
  - G.-W. Weber, E. Savku, A. Kerimov, N.S. Aydin, Y. Yolcu-Okur and E. Akdogan, Stochastic optimal control under impulsive, regime switching and paradigm shifting environments in economics and finance, 1st IconICT (The International Conference on Information and Communication Technologies)

2017, Medan, Indonesia, August 25-27, 2017.

- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, 1st IconICT (The International Conference on Information and Communication Technologies) 2017, Medan, Indonesia, August 25-27, 2017.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2018 in Dublin, Ireland, 1st IconICT (The International Conference on Information and Communication Technologies) 2017, Medan, Indonesia, August 25-27, 2017.
- G.-W. Weber and E. Savku, Optimal control in the presence of stochastic, impulsive, regime switching and paradigm shifting environments in finance and economy, OR2017 - the Annual International Conference of GOR Berlin, Germany, September 6-8, 2017 (Session Chair).
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, OR2017 - the Annual International Conference of GOR Berlin, Germany, September 6-8, 2017.
- G.-W. Weber, C. Brugha and S. McGarraghy, EURO 2018 in Dublin, Ireland, OR2017 - the Annual International Conference of GOR Berlin, Germany, September 6-8, 2017.

## 5.2 Seminars, Further Invitations

- G.-W. Weber, various seminars at Chair C of Mathematics, RWTH Aachen, Germany, 1988-1992.<sup>9</sup>
- G.-W. Weber, Nonlinear optimization: Characterization of structural stability, Research visit at Faculteit der Toegepaste Wiskunde, Universiteit Twente, Enschede, The Netherlands, May 1991.
- G.-W. Weber, Visit of “Vakgroep Kwantitatieve Economie” at Faculty of Economy, Rijksuniversiteit Limburg, Maastricht, November 1992.
- G.-W. Weber, On Structural Stability, Visit of Ilmenau University of Technology (Thüringen country), Germany, September 1994.

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<sup>9</sup> Examples:

- G.-W. Weber, Optimierung: Parametrischer und struktureller Aspekt, Chair C of Mathematics, RWTH Aachen, June 8, 1988.
- G.-W. Weber, Semi-infinite Optimierung: zu einer Charakterisierung der (Ausschneidungs-) Stabilität der zulässigen Menge, Chair C of Mathematics, RWTH Aachen, January 14, 1991.
- H.Th. Jongen and G.-W. Weber, Semi-infinite Optimization: Toward a Characterization of Structural Stability, Chair C of Mathematics, RWTH Aachen, July 18, 1991.
- G.-W. Weber, Minimization of a Max-Type Function — Characterization of Structural Stability, Chair C of Mathematics, RWTH Aachen, June 1992.

- G.-W. Weber, An Index in Nonlinear Control Theory, Visit of Ilmenau University of Technology (Thüringen country), Germany, September 1994.
- G.-W. Weber, Nichtlineare Optimierung: Stabilitätsaspekte und parametrische Methoden, Visit of Humboldt-University Berlin, Germany, Februar 1993.
- G.-W. Weber, Charakterisierung struktureller Stabilität in der nichtdifferenzierbaren Optimierung, Visit of Humboldt University Berlin, Germany, May 1993.
- G.-W. Weber, Einige topologische und praktische Aspekte in der semi-infiniten Optimierung, Mathematical Colloquy, visit of Otto-von-Guericke University Magdeburg, Germany, December 1997.
- G.-W. Weber, Einige topologische Aspekte in der nichtlinearen Optimierung, visit of Seminar on Fluid Dynamics, Faculty of Mechanics at TU Darmstadt, Germany, January 1998.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und Beziehungen zur optimalen Steuerung und diskreten Optimierung, (habilitation) introductory talk in Department of Mathematics at Darmstadt University of Technology, Germany, December 1998.
- G.-W. Weber, Ein kleiner Streifzug durch Optimierung und optimale Steuerung: stetig und diskret, talk in “Orientation Colloquy” (for students) in Mathematical Department at Darmstadt University of Technology, Germany, January 1999.
- G.-W. Weber, Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem, habilitation talk in Department of Mathematics at Darmstadt University of Technology, Germany, December 1999.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung: Theorie, Anwendungen und strukturelle Grenzen, visit of Seminar on Parametric Optimization at Humboldt University Berlin, Germany, December 1999.
- G.-W. Weber, Moderne algebraische und numerische Methoden in der statistischen Versuchsplanung, inaugural talk in Department of Mathematics at Darmstadt University of Technology, Germany, April 2000.
- G.-W. Weber, Die Theorie der semi-algebraischen Mengen, angewendet auf ein Transportproblem, visit of Karlsruhe University of Technology, Institute for Mathematics in Economy and Statistics, talk in Colloquy Operations Research, Karlsruhe, Germany, May 2000.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und optimale Steuerung: Theorie, Methoden und Anwendungen - aus stetiger und diskreter Sicht, visit of Bayerian Julius-Maximilian University of Würzburg, Faculty of Mathematics and Computer Science, Würzburg, Germany, June 2000.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und optimale Steuerung: Theorie, Methoden und Anwendungen - aus stetiger und diskreter Sicht,



- visit of University of Cologne, Mathematical Institute and Center of Applied Informatics, Cologne, Germany, talk in Advanced Seminar, July 2000.
- G.-W. Weber, Verallgemeinerte semi-infinite Optimierung und optimale Steuerung: Theorie, Methoden und Anwendungen - aus stetiger und diskreter Sicht, visit of Clausthal University of Technology, Institute for Mathematics, Clausthal, Germany, September 2000.
  - G.-W. Weber, Some Remarks on Semi-Infinite Optimization, Advanced Seminar of Mathematical Institute of University of Cologne, Germany, October 2000.
  - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, visit of Research Seminar of Subdivision "Optimization and Algorithmical Discrete Mathematics" in Department of Mathematics at Gerhard-Mercator University Duisburg, Germany, January 2001.
  - G.-W. Weber, Kontinuierliche Optimierung und Steuerung bei Verkehrsprozessen - theoretischer Hintergrund, aktuelle Lösungsansätze und Perspektiven, visit of University of Kaiserslautern, Department of Mathematics, Kaiserslautern, Germany, February 2001.
  - G.-W. Weber, Kontinuierliche Optimierung und Steuerung bei Produktions- und Verkehrsprozessen - theoretischer Hintergrund, aktuelle Lösungsansätze und Perspektiven, visit of University of Dortmund, Department of Mathematics, Dortmund, Germany, April 2001.
  - G.-W. Weber, Diskrete und stetige Optimierung bei Produktions- und Verkehrsproblemen, research seminar "Optimierung" at Faculty of Mathematics of Technical University Chemnitz, Germany, May 2001.
  - G.-W. Weber, Discrete optimization in traffic and tomography, visit of University of Poznan, Poland, talk at Mathematical Colloquy, May 2001.
  - G.-W. Weber, Stabilität und Lösung der Optimierung und Steuerung von kontinuierlich-diskreten Problemen aus Produktion und Verkehr - Theorie, Methoden und Perspektiven, visit of Friedrich-Alexander University Erlangen-Nuremberg, Faculty I of Science, Erlangen, Germany, July 2001.
  - G.-W. Weber, Stabilität und Lösung der Optimierung und Steuerung von kontinuierlich-diskreten Problemen aus Produktion und Verkehr - Theorie, Methoden und Perspektiven, visit of Bergakademie University Freiberg, Faculty of Mathematics and Computer Science, Freiberg, Germany, September 2001.
  - G.-W. Weber, various seminars at Department of Mathematics, TU Darmstadt, Faculty of Mathematics, TU Chemnitz, and University of Cologne, 2000-2003.
  - G.-W. Weber, Struktur und Algorithmen der nichtlinearen-diskreten Optimierung von Problemen aus Produktion und Wirtschaft - Theorie, Methoden und Perspektiven, visit of Technical University Dresden, Faculty of Mathe-

- mathematics and Science, Dresden, Germany, December 2001.
- G.-W. Weber, Die Ausgleichsgerade durch vorgegebene Datenpunkte, visit of Fachhochschule (University of Applied Sciences) Wiesbaden, Department of Mathematics, Science, Data Evaluation and Environmental Technologies, Wiesbaden, Germany, June 2002.
  - G.-W. Weber, Kontoführungsmethoden und Berechnungsformeln für festverzinsliche Wertpapiere (US-Methode und ISMA-Methode, Gemeinsamkeiten und Unterschiede), visit of Hochschule (University of Applied Sciences) of Technology and Economic at Dresden, Faculty of Computer Science and Mathematics, Dresden, July 2002.
  - G.-W. Weber, Die Ausgleichskurve durch vorgegebene Datenpunkte, visit of Friedrich-Alexander University Erlangen-Nuremberg, Chair of Applied Mathematics II, Erlangen, Germany, July 2002.
  - G.-W. Weber, Einführung in das Kapitel „Gewöhnliche Differentialgleichungen“ für ingenieurwissenschaftliche Studiengänge, Visit of Westsächsische Hochschule Zwickau, University of Applied Sciences of Western Saxony at Zwickau, Faculty of Physical Technologies and Informatics, Zwickau, Germany, December 2002.
  - G.-W. Weber, Algorithmische Analyse von Genexpressionsdaten mit Polyeder-Strukturen, visit of Westsächsischen Hochschule Zwickau, University of Applied Sciences of Western Saxony at Zwickau, Faculty of Physical Technologies and Informatics, Zwickau, Germany, December 2002.
  - G.-W. Weber, Algorithmic Analysis of Gene Expression Data with Polyhedral Structures, visit of Middle East Technical University Ankara, Institute of Applied Mathematics, Ankara, Turkey, December 2002.
  - G.-W. Weber, Impulses from Results of Inverse Problems to Discrete Tomography, visit of Middle East Technical University Ankara, Institute of Applied Mathematics, Ankara, Turkey, December 2002.
  - G.-W. Weber, Algorithmic Analysis of Gene Expression Data with Polyhedral Structures, visit of University of Ulm, Germany, February, 2003.
  - G.-W. Weber, G.-W. Weber, On the Topology of Generalized Semi-Infinite Optimization, General Seminar, Department of Mathematics, METU, April 24, 2003.
  - G.-W. Weber, On Projects in Scientific Computing at IAM, General Seminar, Institute of Applied Mathematics, METU, May 26, 2003.
  - G.-W. Weber, Some remarks about bioinformatics, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 10, 2003.
  - G.-W. Weber, An Algorithm to Analyze Stability of Gene-Expression Patterns, General Seminar, Institute of Applied Mathematics, METU, March 9,

2004.

- G.-W. Weber, On Chips and Their Analysis, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, April 23, 2004.
- G.-W. Weber, On Computational Biology and Medicine Studied in Our Research Group, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, June 4, 2004.
- G.-W. Weber, On Modelling, Optimization and Prediction of Gene Patterns, Bilkent University, Seminar at Department of Industrial Engineering, October, 2004.
- G.-W. Weber, On Modelling, Optimization and Prediction of Gene Patterns, visit of Koç University, College of Engineering, and talk, October, 2004.
- F.B. Yılmaz, H. Öktem and G.-W. Weber, Mathematical Modeling of Gene Expression Patterns and Gene Networks, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 22, 2004.
- G.-W. Weber, M.U. Akhmet, T. Ergenç, H. Öktem, B.Karasözen, S. Özögür, M. Taştan, Ö. Uğur, S.W. Pickl, J. Gebert, N. Radde and R. Wünschiers, Modeling and Prediction of Gene Patterns, Seminar at GGIT (Department of Geographical-Geodaetical Information Technologies), METU, on Spatio-Temporal Data Mining, Ankara, November 21, 2005.
- G.-W. Weber, Anticipation and Optimization of Gene-Expression Patterns, Otto-von-Guericke-University Magdeburg, Faculty of Mathematics, Fakultätskolloquium, December 16, 2004.
- G.-W. Weber, Considerations and Reflections on Applied Mathematics, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, and General Seminar, Institute of Applied Mathematics, METU, December 28, 2004.
- G.-W. Weber, Considerations and Reflections on Applied Mathematics Shared and a Happy New Year!, General Seminar, Institute of Applied Mathematics, METU, December 28, 2004.
- G.-W. Weber, Modeling and Prediction of Gene Patterns, Joint Seminars, Department of Biological Sciences, METU, and IAM - Department of Biology, February 24, 2005.
- G.-W. Weber, S.W. Pickl, M.U. Akhmet, A. Gökmen, B. Karasözen and H. Körezlioğlu, Energy Management and Sustainable Development, Biyoenerji ve Sürdürülebilir Kalkınma, METU, Ankara, February 25, 2005.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Department of Industrial Engineering, METU, IE 590, Graduate Seminar, Ankara, March 25, 2005.

- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Informatics Institute, METU, Medical Informatics Seminar, Ankara, May 6, 2005.
- G.-W. Weber, Challenges in the Optimization of Bio-Systems, Faculty of Arts & Sciences, Seminar at Department of Mathematics, Balikesir University, July 30, 2005.
- G.-W. Weber and M. Taştan, Generalized Semi-Infinite Optimization and Anticipatory Systems, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, September 16, 2005.
- G.-W. Weber, Discrete Tomography: A Joint Contribution by Optimization Equivariance Analysis and Learning, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, September 30, 2005.
- G.-W. Weber, Discrete Tomography: A Joint Contribution by Optimization Equivariance Analysis and Learning, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 7, 2005.
- G.-W. Weber, M.U. Akhmet, H. Öktem and S.W. Pickl, An Anticipatory Extension of Malthusian Model, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 14, 2005.
- G.-W. Weber, An Anticipatory Extension of Malthusian Model, General Seminar, Institute of Applied Mathematics, METU, October 18, 2005.
- G.-W. Weber, Z. Alparslan, E. Gaygisiz, B. Karasözen, H. Körözlioğlu and S.W. Pickl, Some Remarks on Energy Management and Sustainable Development, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, October 21, 2005.
- G.-W. Weber, T. Ergenç, B. Karasözen, H. Öktem, S. Özögür, M. Taştan, Ö. Uğur, S.W. Pickl, J. Gebert, N. Radde and R. Wünschiers, Modeling and Prediction of Gene Patterns, Joint GATA-METU Seminar in Bio-Medicine and -Technology Ankara, January 18, 2006.
- G.-W. Weber, M.U. Ahkmet, T. Ergenç, B. Karasözen, H. Öktem, S. Özögür, M. Taştan, Ö. Uğur, S.W. Pickl, J. Gebert, N. Radde, R. Wünschiers, Modeling and Prediction of Gene Patterns, Bio-enformatik YUUP Biyotıp Toplantısı, Ankara, February 13, 2006.
- G.-W. Weber, Discrete Tomography: A New Research Area in Modern OR, Seminar on Computational Biology and Medicine, IAM and YUUP Group “Bioinformatics”, METU, April 4, 2006.
- G.-W. Weber, A. Kuba, Ö. Yaşar and S. Özgür, Discrete Tomography: New Approaches and Results by Optimization Theory and Statistical Learning, Bilkent University, Seminar at Department of Industrial Engineering, April 7, 2006.
- G.-W. Weber and S.Z. Alparslan, Some Remarks on Energy Management and

- Sustainable Development, Seminar on Computational Biology and Medicine, IAM and YUUP Group "Bioinformatics", METU, May 12, 2006.
- G.-W. Weber, B. Öztürk and B. Karasözen, Inverse Problems - with Special Emphasis on Discrete Tomography, Tübitak Data Mining Project at METU, June 16, 2006.
  - G.-W. Weber and Ö. Uğur, Gene-Environment Networks: Discrete-Continuous and Generalized Semi-Infinite Optimization Used for Modeling with Intervals, Seminar on Computational Biology and Medicine, IAM and YUUP Group "Bioinformatics", METU, September 22, 2006.
  - P. Taylan and G.-W. Weber, New Approaches to Regression by Generalized Additive Models and Continuous Optimization for Modern Applications in Science, Finance and Technology, Seminar on Computational Biology and Medicine, IAM and YUUP Group "Bioinformatics", METU, October 20, 2006.
  - S. Özögür, J. Shawe-Taylor, Z.B. Ögel, V. Atalay and G.-W. Weber, Biological Data Mining by Using SVM and Pattern Analysis - Prediction of Eukaryotic Pro-Peptide Cleavage Sites, Seminar on Computational Biology and Medicine, IAM and YUUP Group "Bioinformatics", METU, November 10, 2006.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür, P. Taylan and A. Tezel, A New Mathematical Approach: Dynamics and Prediction in Gene-Environmental Networks with the Help of Optimization Elements of Finance Included, General Seminar, Department of Mathematics, METU, March 1, 2007.
  - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Inverse Problems - in the Sectors of Life Sciences, Technology, Economy and Society, Seminar on Computational Biology and Medicine IAM and YUUP Biyotip Group "Bioinformatics", METU, March 23, 2007.
  - G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür, Inverse Problems - Illustrated by the Example of Discrete Tomography, General Seminar, Department of Mathematics, METU, May 17, 2007.
  - M. Taştan, Ö. Çelik, G.-W. Weber, F. Korkusuz and B. Karasözen, New Approaches in Mathematical Modeling of Proximal Femur Geometry and Bone Mineral Density, Seminar on Computational Biology and Medicine, IAM and YUUP Biyotip Group "Bioinformatics", METU, May 11, 2007.
  - G.-W. Weber, B. Akteke-Öztürk, A. Işcanoğlu, S. Özögür and P. Taylan, Various Topics of Applied Mathematics: Computational Statistics and Data Mining - the Examples of Clustering, Classification and Classification, Seminar on Applied Mathematics in IAM, METU, and YUUP Biyotip Group "Bioinformatics", METU, September 28, 2007.
  - G.-W. Weber and P. Taylan, A New Approach in Financial Mathematics and Science: Approximation of Stochastic Differential Equations by Additive

- Models Using Splines and Conic Programming, General Seminar, Institute of Applied Mathematics, METU, October 9, 2007.
- G.-W. Weber, B. Akteke-Öztürk, P. Taylan, S. Özögür, S.Z. Alparslan-Gök, A. Tezel and Ö. Uğur, Optimization and Dynamics of Gene-Environment Networks Including Data Mining, Computational Statistics and Financial Mathematics, Seminar at Department of Statistics, METU, Ankara, October 18, 2007.
  - G.-W. Weber, B. Akteke-Öztürk, S. Özögür, P. Taylan and G. Köksal, On Modern Data Mining - the Examples of Clustering and Classification, Seminar at Başkent University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, October 25, 2007.
  - S. Özögür Akyüz, G.-W. Weber, J. Shawe-Taylor and Z.B. Ögel, Learning Theory with Kernel Methods and Semi-Infinite Optimization, Vision and Pattern Analysis (VPA) Lab Meetings, Sabancı University, Istanbul, Ankara, November 20, 2007.
  - S. Özögür Akyüz, and G.-W. Weber, Learning with Infinitely Many Kernels via Semi-Infinite Programming, Vision and Pattern Analysis (VPA) Lab Meetings, Sabancı University, Istanbul, Ankara, December 4, 2007.
  - G.-W. Weber, B. Akteke-Öztürk, A. Işcanoğlu, S. Özögür Akyüz and P. Taylan, Computational Statistics and Data Mining - the Examples of Clustering, Classification and Regression Seminar at Faculty of Economics, Business and Law, University of Siegen, Germany, December 20-21, 2007.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan and A. Tezel, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar at The William Davidson Faculty of Industrial Engineering and Management, Technion, Israel Institute of Technology, Haifa, Israel, January 20-25, 2008.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar at ORT Braude College, Karmiel, Israel, January 24, 2008.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, seminar presentation widely distributed at Technion, Israel Institute of Technology, Haifa, Israel, January 20-25, 2008.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan, A. Tezel, E. Kropat and Z.-K. Görgülü, Dynamics, Sta-

- bility and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar distributed at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, February 20, 2008.
- G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar distributed at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, February 20, 2008.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, E. Kropat, Z.-K. Görgülü, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, February 22, 2008.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, E. Kropat, Z.-K. Görgülü, F. Özbudak and E. Akyıldız, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar in Department of Computer Engineering, METU, February 27, 2008.
  - S. Özögür and G.-W. Weber, Learning with Infinitely Many Kernels and Its Application of Optimization Theory, Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, March 7, 2008.
  - G.-W. Weber, On Portfolio Optimization: Some Supplementary Documentations, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, March 14, 2008.
  - G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan and A. Tezel, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar distributed at Faculty of Engineering and Natural Sciences, Sabancı University, Turkey, March 26, 2008.
  - G.-W. Weber, P. Taylan, D. Sezer, G. Köksal, I. Batmaz, F. Yerlikaya, S. Özögür, J. Shawe-Taylor, N. Erbil, F. Özbudak and E. Akyıldız, E. Kropat and Z.-K. Görgülü, New Pathways of Research at IAM of METU and Collaboration Proposed - MARS - SVM with Infinitely Many Kernels, Coding Theory and Cryptography Indicated, Seminar at Faculty of Engineering and

Natural Sciences, Sabancı University, Turkey, March 26, 2008.

- G.-W. Weber, Ö. Uğur, B. Akteke-Öztürk, S.Z. Alparslan-Gök, S. Özögür-Akyüz, P. Taylan and A. Tezel, Dynamics, Stability and Control in Environmental, Biological and Financial Dynamics - Semi-Infinite and Conic Programming Applied in an Emerging Area of Modern OR, Seminar at Department of Biology, METU, Ankara, March 27, 2008.
- G.-W. Weber, A. Kuba, Ö. Yaşar and O. Özgür-Akyüz, Inverse Problems - Illustrated by Discrete Tomography - in Memoriam Professor Attila Kuba, Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, April 4, 2008.
- G.-W. Weber, D. Sezer, N. Erbil, E. Kropat and Z.-K. Görgülü, On Portfolio Optimization: Some Supplementary Documentations, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, April 18, 2008.
- G.-W. Weber, Z. Alparslan-Gök, E. Kropat, Z.-K. Görgülü and D. DeTombe, Environmental and Life Sciences - Gene-Environment Networks, Seminar in Optimization, Department of Mathematics, Darmstadt University of Technology, June 26, 2008.
- G.-W. Weber and P. Taylan, Organization in Finance Prepared by Stochastic Differential Equations with Additive and Nonlinear Models and Continuous Optimization, Faculty of Economics, Management and Law, University of Siegen, Germany, July 4, 2008.
- G.-W. Weber and E. Kürüm, Gene-Environment Networks under Uncertainty – Finance, Wealth and Development Included, Department of Management, University of Bristol, UK, September 7, 2008.
- G.-W. Weber, S. Özögür-Akyüz and J. Shawe-Taylor, Machine Learning with Infinitely many Kernels - Infinite Programming and Semi-Infinite Programming Applied, Theoretical & Computational Optimization Group, School of Mathematics, The University of Birmingham, September 8, 2008.
- G.-W. Weber, and O. Özgür, Machine Learning with Infinitely Many Kernels - Infinite Programming and Semi-Infinite Programming Applied, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, September 26, 2008.
- G.-W. Weber, B. Akteke-Öztürk, Z. Alparslan-Gök, I. Batmaz, Ö. İlk, G. Köksal, E. Kürüm, S. Özögür-Akyüz, P. Taylan, Ömür Uğur, F. Yerlikaya, K. Yildirak, D. Akume, Z.-K. Görgülü, E. Kropat and T. Tchemisova, Some New Advances and Challenges in Modern Continuous Optimization with Semi-Infinite and Conic Quadratic Programming - Theory, Methods and Ap-



- plications: Gene-Environment Networks under Uncertainty, October 10, 2008, University of Minho, Braga, Portugal.
- G.-W. Weber, B. Akteke-Öztürk, Z. Alparslan-Gök, I. Batmaz, Ö. İlk, G. Köksal, E. Kürüm, S. Özögür-Akyüz, P. Taylan, Ömür Ugur, F. Yerlikaya, K. Yildirak, D. Akume, Z.-K. Görgülü, E. Kropat and T. Tchemisova, Some New Advances and Challenges in Modern Continuous Optimization with Semi-Infinite and Conic Quadratic Programming - Theory, Methods and Applications: Computational Statistics and Financial Mathematics with Model-Based Learning by Optimization, October 10, 2009, University of Minho, Braga, Portugal.
  - G.-W. Weber, D. Akume, P. Taylan, K. Yildirak, E. Kürüm, N. Erbil, Optimization and Algorithms of Parameter Estimation in Stochastic Differential Equations and Their Structural Frontiers, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, October 24, 2008.
  - G.-W. Weber, S.Z. Alparslan-Gök, B. Akteke-Öztürk, E. Kalayci, M.H. Aslan, A.R.B. Ismaila and E. Kropat, Eco-Finance Networks under Uncertainty, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, October 31, 2008.
  - G.-W. Weber, S.Z. Alparslan-Gök, B. Akteke-Öztürk, E. Kalayci, M.H. Aslan, A. Hayfavi, E. Güney and D. Akume, Mean Risk Optimization of Electricity Portfolios (based on the keynote speech of Prof. W. Römisch at the occasion of OR 2008 in Augsburg, Germany), Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, November 7, 2008.
  - G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, E. Kartal, Ö. İlk, E. Kürüm and A. Özmen, MARS Revisited, Seminar on Financial Mathematics and Seminar on Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, November 14, 2008.
  - G.-W. Weber, I. Batmaz, G. Köksal, F. Yerlikaya, P. Taylan, E. Kartal, Ö. İlk, E. Kürüm and A. Özmen, Continuous Optimization Applied in MARS for Modern Applications in Finance, Science and Technology - MARS Revisited, presentation distributed at Faculty of Economics, Management and Law, University of Siegen, Germany, November 19, 2008.
  - G.-W. Weber, A Small Excursion in Research on Business and Applied Mathematics: The Example of Data Mining in Quality Management and Finance, American University in Beirut, Suliman S. Olayan School of Business, Beirut, Lebanon, December 10, 2008.

- G.-W. Weber, I. Batmaz (speaker), G. Köksal, P. Taylan and F. Yerlikaya, Performance Evaluation of C-MARS: a Novel Approach to Nonparametric Regression, General Seminar, Institute of Applied Mathematics, December 16, 2008.
- G.-W. Weber, A Small Excursion in Research on Business and Applied Mathematics: The Example of Data Mining in Quality Management and Finance, General Seminar, Department of Mathematics, Atılım University, Ankara, Turkey, December 17, 2008 (coauthors: B. Akteke-Öztürk, Z. Alparslan-Gök, I. Batmaz, Ö. İlk, G. Köksal, E. Kürüm, S. Özögür-Akyüz, P. Taylan, Ö. Ugur, F. Yerlikaya, K. Yildirak, D. Akume, Z.-K. Görgülü, E. Kropat, T. Tchemisova).
- S. Özögür-Akyuz, G.-W. Weber and J. Shawe-Taylor, A Mathematical Contribution of Statistical Learning and Continuous Optimization Using Infinite and Semi-Infinite Programming, to Computational Statistics, Seminar at Sabanci University, Faculty of Engineering and Natural Sciences, December 25, 2008.
- G.-W. Weber, Middle East Technical University, presentation at the occasion of visit of American guests at IAM and METU, Ankara, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, January 2, 2009.
- G.-W. Weber, On Portfolio Optimization: Some Supplementary Documentations, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, March 6, 2009.
- G.-W. Weber, On Challenges and Opportunities of Continuous Optimization Theory and Applications in Networks of Learning and Research Collaboration, seminar at Graduate School of Information Technology and Mathematical Sciences (ITMS), University of Ballarat, Australia, March 16-17, 2009.
- G.-W. Weber, Discrete Tomography I, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, April 10, 2009.
- G.-W. Weber, P. Taylan, K. Yildirak, E. Kürüm, S.Z. Alparslan-Gök, V. Jafarova and N. Erbil, Some New Contributions of Continuous Optimization Theory in the Financial Sector and Related Areas, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biyotip Group “Bioinformatics”, METU, May 19, 2009.
- G.-W. Weber, P. Taylan, K. Yildirak and E. Kürüm, Some New Contributions of Continuous Optimization Theory in the Financial Sector and Related Areas, Seminar of Department of Mathematics of Cankaya University, Ankara, May 22, 2009.

- G.-W. Weber, Z. Volkovich, Z. Barzily and D. Toledano-Kitai, Cluster Stability Estimation Based on a Minimal Spanning Trees Approach (An Advance in Mathematical Statistics and Its Applications), Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biotip Group “Bioinformatics”, METU, May 29, 2009.
- G.-W. Weber, On Robust Portfolio Optimization (in the tradition of the Markovitz model), Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biotip Group “Bioinformatics”, METU, October 23, 2009.
- G.-W. Weber, F. Yelikaya-Özkurt, A. Özmen and I. Batmaz, Robustification of Newly Developed CMARS Method — The New Robust CMARS (RCMARS) Method, Seminar on (Financial Mathematics and) Applied Mathematics in Life and Human Sciences and Economy in IAM, METU, and YUUP Biotip Group “Bioinformatics”, METU, October 23, 2009.
- F. Yelikaya-Özkurt, P. Taylan, I. Batmaz, G. Köksal and G.-W. Weber, CMARS: A Modification of MARS by Tikhonov regularization and conic quadratic programming, Department of Statistics, METU, November 19, 2009.
- G.-W. Weber <sup>10</sup>, New Mathematical Tools for the Financial Sector, Seminar at Faculty of Economics, Business and Law, University of Siegen, Germany, December 8, 2009.
- G.-W. Weber <sup>11</sup>, Some New Mathematical Models and Tools for the Financial Sector and for Regulatory Networks, Seminar at TUBITAK Feza Gursey Institute for Fundamental Sciences in Istanbul, Turkey, December 17, 2009.
- G.-W. Weber and S. Zeynep Alparslan-Gök, Towards Cooperative Games under Ellipsoidal Uncertainty, Seminar on Applied Mathematics (Financial Mathematics, Economics, Human and Life Sciences), IAM, METU, February 19, 2009.
- G.-W. Weber, Some New Advances in Financial Mathematics Supported by Optimization, Seminar at Department of Industrial Engineering, Bilkent University, Ankara, February 26, 2010.
- G.-W. Weber, Robust Portfolio Optimization, Seminar on Applied Mathematics (Financial Mathematics, Economics, Human and Life Sciences), IAM, METU, March 5, 2010.
- G.-W. Weber, Data Mining — New Advances by Modern Applied Mathematics, Seminar at Department of Archeometry, METU, March 12, 2010.

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<sup>10</sup>Coauthors: B. Akteke-Öztürk, Süreyya Özögür Akyüz, P. Taylan, S. Zeynep Alparslan-Gök, I. Batmaz, G. Köksal, F. Yerlikaya-Özkurt, A. Özmen, E. Kartal-Koc, E. Kropat, C.S. Pedamallu, E. Özceylan, T. Paksoy, E. Büyükbeci, A. Iscanoglu Cetin, Ö. Sezgin Alp, E. Kalayci, M.H. Aslan, A. Belek Ismaila, Ö. Defterli, A. Fügenschuh, D. Akume, E. Kürüm, K. Yildirak, Ö. Ugur

<sup>11</sup>Coauthors: as mentioned before

- G.-W. Weber, On the Ellipsoidal Core for Cooperative Games under Ellipsoidal Uncertainty, Seminar at Department of Mathematics and Computer Science, Cankaya University, Ankara, Turkey, May 26, 2010.
- G.-W. Weber, Ö. Defterli, S.Z. Alparslan Gök and E. Kropat, Modeling, Inference and Optimization of Regulatory Networks Based on Time Series Data, Biomedical Engineering (BME) Seminar, METU, Ankara, November 25, 2010.
- G.-W. Weber, R. Branzei and S.Z. Alparslan Gök, On the Ellipsoidal Core for Cooperative Games under Ellipsoidal Uncertainty, Seminar in the Department of Management Science, School of Management, Fudan University, Shanghai, China, December 17, 2010.
- G.-W. Weber, Ö. Defterli, S.Z. Alparslan Gök and E. Kropat, Modeling, Inference and Optimization of Regulatory Networks Based on Time Series Data, Presentation offered at Department of Management Science, School of Management, Fudan University, Shanghai, China, December 17, 2010.
- G.-W. Weber, A. Özmen and I. Batmaz, RCMARS: The New Robust CMARS Method, Presentation offered at Department of Management Science, School of Management, Fudan University, Shanghai, China, December 17, 2010.
- G.-W. Weber, E. Kürüm, N. Azevedo, C.E. Can, D. Pinheiro, A. Kerimov, C. Güleroglu, and T. Gonuz, Stochastic Control of Hybrid Systems with Applications to Finance, Faculty of Economics, Business and Law, University of Siegen, Germany, January 17, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli and A. Fügenschuh, Recent Discrete-Continuous Contributions to Eco-Finance Networks and Cooperative Game Theory Seminar of Department of Mathematics, Koç University, Istanbul, March 15, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli and A. Fügenschuh, Recent Discrete-Continuous Contributions to Eco-Finance Networks and Cooperative Game Theory Seminar of Department of Mathematics, Spring 2011 BIN 590 Graduate Seminar, Informatics Institute, METU, Ankara, March 18, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, Research Progress and New Applications of Eco-Finance Networks and Cooperative Game Theory, Seminar at School of Mathematics and Statistics, University of South Australia, Adelaide, Australia, July 20, 2011.
- G.-W. Weber, S.Z. Alparslan Gök, E. Kropat, Ö. Defterli, F. Yelikaya-Özkurt and A. Fügenschuh, Stochastic and Impulsive Hybrid Systems in Modern Finance Appendix of Seminar at School of Mathematics and Statistics, University of South Australia, Adelaide, Australia, July 20, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July,

- 2012 Vilnius, Lithuania (Adelaide edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Adelaide edition), at Seminar at School of Mathematics and Statistics, University of South Australia, Adelaide, Australia, July 20, 2011.
  - G.-W. Weber, Ö. Defterli, L. Özdamar, Z. Alparslan-Gök, C.S. Pedamallu, B. Temocin, A. Kerimov, C.E. Can and E. Kürüm, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions?, Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
  - G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Stochastic and Impulsive Hybrid Systems in Modern Finance, distributed as Appendix at the occasion of Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
  - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Robust Conic GPLMs for Prediction of Default Probabilities in Emerging Markets and of Dynamical Regulatory Networks, distributed at the occasion of Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Sydney edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Sydney edition), distributed at the occasion of Seminar at Department of Applied Mathematics, School of Mathematics and Statistics, University of New South Wales, Sydney, Australia, July 21-26, 2011.
  - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance and Regulatory Systems: Prediction of Credit Default and a Process Version, Seminar at Institute of Operations Research (IOR), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, August 5, 2011.
  - G.-W. Weber, B. Temocin, A. Kerimov, D. Pinheiro and N. Azevedo, Appendix: The Financial Sector in the Presence of Uncertainty: Impulsive vs. Stochastic Hybrid Systems, and ...
  - V. Purutcuoglu, T. Erdem and G.-W. Weber, Appendix: Inference of the JAK-STAT Gene Network via Graphical Models, distributed at the occasion of Seminar at Institute of Operations Research (IOR), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, August 5, 2011.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Karlsruhe edition), and ...

- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Karlsruhe edition), distributed at the occasion of Seminar at Institute of Operations Research (IOR), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, August 5, 2011.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C. Sekhar Pedamallu, E. Kürüm, Büsra Temocin, A. Kerimov, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, V. Purutcuoglu, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Finance, Education, Biology, Medicine and Economics, Supported by Research in Modern Applied Mathematics, General Seminar, Department of Mathematics, METU, Ankara, Turkey.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C. Sekhar Pedamallu, E. Kürüm, B. Temocin, A. Kerimov, N.S. Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, V. Purutcuoglu, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? OR in Finance, Education, Biology, Medicine and Economics, Supported by Research in Modern Applied Mathematics, Seminar at Department of System Engineering and Engineering Management, The Chinese University of Hong Kong, October 17-24, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012 Vilnius, Lithuania (Hong Kong CUHK edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers — The 25th Conference of the European Chapter on Combinatorial Optimization (Hong Kong CUHK edition), distributed at the occasion of Seminar at Department of System Engineering and Engineering Management, The Chinese University of Hong Kong, October 17-24, 2011.
- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, Robust Conic GPLM - A New Optimization-Based Method under Uncertainty with Applications in Finance and Regulatory Systems, seminar at Department of Applied Mathematics, Hong Kong Polytechnical Institute Hong Kong, October 21, 2011.
- G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Hong Kong PolyU edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Hong Kong PolyU edition), distributed at the occasion of Seminar at Department of System Engineering and Engineering Management, The Chinese University of Hong Kong, October 17-24, 2011.
- G.-W. Weber, Z. Alparslan-Gök, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N. Serhan Aydin, A. Özmen, F. Yerlikaya,

- P. Taylan, C. Güleroglu, V. Purutcuoglu, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, How Can We Anticipate Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Finance, Education, Biology, Medicine and Economics - Some Recent Contributions Supported by Applied Mathematics, seminar at Department of Statistics, METU, November 17, 2011.
- G.-W. Weber, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N. Serhan Aydin, A. Özmen, F. Yerlikaya, Z. Alparslan-Gök, P. Taylan, B. Akteke Öztürk, S. Özögür Akyüz, Y. Yolcu Okur, E. Kropat, M.H. Yildirim, E. Kalayci, D. Pinheiro and N. Azevedo, How Can We Predict Network Predict Dynamics under Various Time and Uncertainty Assumptions? Motivations and Applications in Education, Finance, Economics, Biology and Medicine - Some Recent Contributions Supported by Applied Mathematics, seminar at Balikesir University, December 1-3, 2011.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Balikesir edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Balikesir edition), distributed at the occasion of Seminar at Balikesir University, December 1-3, 2011.
  - G.-W. Weber, S. Özögür-Akyüz, Z. Alparslan-Gök, B. Akteke-Öztürk, Ö. Defterli, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, N. Serhan Aydin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, T. Gönüz, I. Batmaz, E. Kartal, E. Kropat, D. Pinheiro and N. Azevedo, Network Dynamics Predicted under Different Assumptions on Time and Uncertainty. Investigations in Live and Human Sciences, seminar at Bahcesehir University, Istanbul, Turkey, February 17, 2012.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July, 2012, Vilnius, Lithuania (Bahcesehir edition), and ...
  - G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Bahcesehir edition), distributed at the occasion of Seminar at Bahcesehir University, Istanbul, Turkey, February 17, 2012.
  - G.-W. Weber, S.B. Algümüs, Ö. Defterli, T. Avkar, L. Özdamar, C.S. Pedamallu, E. Kürüm, A. Kerimov, B. Temocin, A. Özmen, F. Yerlikaya, P. Taylan, C. Güleroglu, Y. Yildiz, E. Kropat and Z.-K Görgülü, A Piece of Modern Applied Mathematics — On the Way to Anticipate Dynamics under Different Time and Uncertainty Assumptions. Motivations and Applications in Education, Biology, Medicine, Finance and Economics, seminar at Cag University, Tarsus, Turkey, Department of Mathematics, Science Club and Maths. & Comp. Club, March 30, 2012.
  - G.-W. Weber (L. Sakalauskas, author), EURO 2012 - EURO XXV, 8-11 July,

- 2012, Vilnius, Lithuania (Tarsus edition), and ...
- G.-W. Weber (Z. Sargut et al., coauthors), ECCO - Call for Papers - The 25th Conference of the European Chapter on Combinatorial Optimization (Tarsus edition),
  - R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Tarsus edition), distributed at the occasion of Seminar at Cag University, Tarsus, Turkey, Department of Mathematics, Science Club and Maths. & Comp. Club, March 30, 2012.
  - G.-W. Weber, D. Pinheiro, N. Azevedo, A. Kerimov, E. Kürüm, B. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, A. Özmen, F. Yerlikaya, P. Taylan, V. Purutcuoglu, Z. Alparslan-Gök, Ö. Defterli, L.Özdamar, C.S. Pedamallu, E. Kropat and V. Strijov, Dynamics Modeled and Predicted under Different Time and Uncertainty Assumptions. Motivations from Education, Finance and Economy, presentation distributed at at the occasion of my Visit at Department of Industrial Engineering, Atatürk University, Erzurum, Turkey.
  - R. de Leone et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Tarsus edition), and
  - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July, distributed at the occasion of my Visit at Department of Industrial Engineering, Atatürk University, Erzurum, Turkey.
  - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July, distributed at the occasion of my Visit at Department of Industrial Engineering, Atatürk University, Erzurum, Turkey.
  - G.-W. Weber, A. Kerimov, E. Kürüm, B.Z. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, E. Kilic, V. Purutcuoglu, Z. Alparslan-Gök, T. Gönüz, V. Strijov, D. Pinheiro and N. Azevedo, Mathematics, Statistics and OR of Stochastic Hybrid Dynamical Systems and Their Use in Finance, Economics and Science, Seminar at the Department of Industrial Engineering, Atilim University, Ankara, Turkey.
  - R. Dell’Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Atilim edition), and
  - E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Atilim edition), at the Seminar at the Department of Industrial Engineering, Atilim University, Ankara, Turkey, October 12, 2012.



- G.-W. Weber, Erdem Kilic, Y. Yocu Okur, B. Temocin, A. Kerimov, E. Kürüm, S. Belen Algümüs and F. Yerlikaya Özkurt, Optimization and Operational Research of Stochastic Hybrid Systems and Their Applications in Biology, Environment, Economy and Finance, Seminar at the Department of Applied Mathematics and Physics, and Graduate School of Informatics, Kyoto University, Kyoto, Japan, October 20-25, 2012.
- G.-W. Weber and B. Temocin, Optimal Control of Stochastic Hybrid System with Jumps: A Numerical Approximation (Kyoto edition), Short Communication at the Department of Applied Mathematics and Physics, and Graduate School of Informatics, Kyoto University, Kyoto, Japan, October 20-25, 2012.
- R. DellOlmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Atilim edition), and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Atilim edition), at the occasion of Seminar at the Department of Applied Mathematics and Physics, and Graduate School of Informatics, Kyoto University, Kyoto, Japan, October 20-25, 2012.
- G.-W. Weber, A. Kerimov, E. Kürüm, B.Z. Temocin, A. Hayfavi, Y. Yolcu-Okur, D. Sezer, E. Kilic, V. Purutcuoglu, Z. Alparslan-Gök, T. Gönüz, V. Strijov, D. Pinheiro and N. Azevedo, Mathematics and Operational Research of Stochastic Hybrid Dynamical Systems and Their Applications in Finance, Economics and Science, Seminar at the Department of Information Science and Systems Engineering, Faculty of Science and Engineering, Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, October 23, 2012.
- G.-W. Weber and B. Temocin, Optimal Control of Stochastic Hybrid System with Jumps: A Numerical Approximation (Kobe edition), Short Communication at the Department of Information Science and Systems Engineering, Faculty of Science and Engineering, Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, October 23, 2012.
- R. DellOlmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Kyoto edition), and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Kyoto edition), at the occasion of Seminar at the Department of Information Science and Systems Engineering, Faculty of Science and Engineering, Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, October 23, 2012.

- G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance: Prediction of Credit Default, Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan, October 26, 2012.
- G.-W. Weber, A. Kerimov, B.Z. Temocin and A. Iscanoglu Cekic, Operational Research and Optimal Control of Stochastic Hybrid Systems and Their Applications in Economy and Finance, Biology and Environment, Seminar at the Department of Mathematics, National Taiwan University, Taipei, Taiwan, October 29, 2012.
- G.-W. Weber and B. Temocin, Optimal Control of Stochastic Hybrid System with Jumps: A Numerical Approximation (Taipei edition), Short Communication at the Department of Mathematics, National Taiwan University, Taipei, Taiwan, October 29, 2012.
- R. Dell'Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Taipei edition), and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Taipei edition), at the occasion of Seminars at the Department of Computer Science and Information Engineering and at the Department of Mathematics, National Taiwan University, Taipei, Taiwan, October 26-29, 2012.
- G.-W. Weber and A. Özmen, Robust Counterparts of MARS and CMARS under Polyhedral Uncertainty, Seminar conveyed at the Faculty of Organization, University of Maribor, Slovenia, March 2013.
- G.-W. Weber, F. Yerlikaya Özkurt, E. Kilic, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm and A. Özmen, Some Advances in Modeling, Optimization and Optimal Control of Stochastic Dynamics - Applications in Economy, Finance, Biology and Environment, Seminar at the Department of Mathematics, Bilkent University, Ankara, Turkey, March 27, 2013.
- R. Dell'Olmo et al. (G.-W. Weber, presenter), EURO-INFORMS MMXIII, 26th European Conference on Operational Research, Rome, Italy, July 1-4, 2013 (Bilkent edition), and
- E. Fernandez et al. (G.-W. Weber, presenter), 20th Conference of the International Federation of Operational Research Societies, Barcelona 2014, The Art of Modeling, 13th - 18th July (Bilkent edition), conveyed at the occasion of Seminar at the Department of Mathematics, Bilkent University, Ankara, Turkey, March 27, 2013.
- S. Kuter, G.W. Weber, Z. Akyürek and A. Özmen, Nonparametric Regression Splines for Atmospheric Correction of Satellite Images, Seminar at The Insti-

- tute of Forestry and Rural Engineering, Estonian University of Life Sciences, Tartu, Estonia, October 7-11, 2013.
- G.-W. Weber, F.Y. Yilmaz and H. Öz, New Advances in Numerical Solution of Stochastic Differential Equations, Lecture at Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia, October 14, 2013.
  - G.-W. Weber, E. Kilic, F. Yerlikaya Özkurt, B. Temocin, A. Kerimov, Y. Yocu Okur, C. Vardar-Acar, S. Belen Algümüs, E. Kropat, E. Kürüm, A. Özmen and S. Kestel, Modeling, Optimization and Control of Stochastic Dynamics: Recent Advances in Finance, Economics, Biology and Environment, Lecture at Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia, October 15, 2013.
  - S. Kuter, G.-W. Weber, Z. Akyürek and A. Özmen, Nonparametric Regression Splines for Regional Atmospheric Correction, Seminar at Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia, October 16, 2013.
  - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
  - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, Higher School of Economics, National Research University, School of Applied Mathematics and Information Science, Moscow, Russia.
  - G.-W. Weber, A. Kerimov, B. Temocin, E. Kilic, Y. Yocu Okur, F. Yerlikaya, E. Kürüm, C.E. Can, S. Örselik, S. Kestel, F. Yilmaz, H. Öz, N. Azevdo, D. Pinheiro and N.S. Aydin, Stochastic Dynamics and Its Optimization, in Economics and Finance, Science and Engineering, Lecture and Interview at Erzurum Technical University, Faculty of Engineering and Architecture, Department of Civil Engineering, November 18, 2013.
  - E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
  - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, Erzurum Technical University, Faculty of Engineering and Architecture, Department of Civil Engineering, November 18, 2013.
  - G.-W. Weber, E. Kilic, A. Kerimov, B. Temocin, Y. Yocu Okur, F. Yerlikaya, E. Kürüm, S. Kestek, F. Yilmaz, H. Öz, N. Azevdo, D. Pinheiro, N.S. Aydin and C.E. Can, Stochastic Hybrid Systems in Nature, Economics, Finance and Society, Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, December 11, 2013.
  - G.-W. Weber, A. Özmen, Z. Cavusoglu and Ö. Defterli, The New Robust Conic GPLM Method with an Application to Finance: Prediction of Credit Default, Seminar at the Department of Computer Science and Information

- Engineering, National Taiwan University, Taipei, December 11, 2013.
- E. Fernandez, S. Nickel, G.-W. Weber (presenter), IFORS Barcelona 2014 - The Art of Modeling, 13th - 18th July, and
  - V. Belton, T. Bedford, G.-W. Weber (presenter), Video: EURO 2015, Glasgow - Scotland UK, at the occasion of Seminar at the Department of Computer Science and Information Engineering, National Taiwan University, Taipei, December 11, 2013.
  - G.-W. Weber, Uncertainty Quantification in Regulatory Networks with Parameter Identification, General Seminar, Institute of Applied Mathematics, Middle East Technical University, February 25, 2014.
  - N. Azevedo, D. Pinheiro and G.-W. Weber, Dynamic programming for a Markov-switching jump-diffusion, NIPE Seminar Series, Braga, Portugal, February 19, 2014.
  - S. Kuter, S., G.-W. Weber and Z. Akyürek, Use of nonparametric splines in the classification of satellite images, Seminar at The Faculty of Environmental Engineering, Bialystok University of Technology, Bialystok, Poland, May 28, 2014.
  - G.-W. Weber, Recent Advances in Multivariate Adaptive Regression Splines and Their Applications, Department of Actuarial Sciences, Hacettepe University, Ankara, May 9, 2014.
  - G.-W. Weber, Optimal Control of Stochastic Hybrid Systems with Jumps under Regime Switching - Applications in Finance, Economics and Science, Seminar at Department of Mathematics, Gazi University, Ankara, February 27, 2015.
  - G.-W. Weber, E. Savku, N.S. Aydin, Y. Yolcu Okur, G. Pinheiro and N. Azevedo, Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay - Applications in Finance, Economics and Biology, seminar at Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, August 18, 2015.
  - D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, ...
  - M.G. Speranza et al., and G.-W. Weber (presenter), On IFORS 2017, Quebec City, Canada, July 17-21, 2017, ...
  - G.-W. Weber, On EURO and IFORS, EURO 2016 and IFORS 2017, in seminar at Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, August 18, 2015.
  - G.-W. Weber, S. Kuter, Z. Akyürek and A. Özmen, A New Method of Applied Mathematics and Operational Research for Satellite Image Processing, conveyed at the occasion of seminar at Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, August

18, 2015.

- G.-W. Weber, S. Kuter, Z. Akyürek and A. Özmen, Recent Contributions to Satellite Image Processing by Applied Mathematics and Modern Continuous Optimization, ...
- S. Fores and G.-W. Weber, On EURO ...
- N. Maculan and G.-W. Weber, On IFORS, conveyed to Department of Applied Mathematics, The Hong Kong Polytechnic University, August 18, 2015.
- G.-W. Weber, Visit of the University of Maribor, Slovenia, September 22, 2015; compact presentation on Optimal Control of Stochastic Hybrid Systems and Its Real-World Impact in Times of Regime-Switches and Paradigm Shifts.
- G.-W. Weber, E. Savku, S. Belen, S. Kestel and N.S. Aydin, Optimal Control of Stochastic Dynamics under Regime Switches, Paradigm Shifts and with Delay - Applications in Finance, Economics and Science, Seminar at Department of Mathematics and Computer Science, Cankaya University, Ankara, Turkey, November 20, 2015.
- H. Öz, G.-W. Weber and F. Yilmaz, Optimal Control Problems of Stochastic Differential Equations with New Runge-Kutta Methods, Seminar at Department of Mathematics, Atilim University, Ankara, Turkey, March 9, 2016.
- G.-W. Weber, E. Savku, A.S. Kestel, Y. Yolcu-Okur and B. Temocin, Optimal Control of Stochastic Systems with Regime Switches, Jumps and Delay in Finance, Economics and Nature, Seminar at Department of Mathematics, Atilim University, Ankara, Turkey, March 23, 2016.
- D. Vigo, J. Jozefowska et al., and G.-W. Weber (presenter), On EURO 2016, Poznan, Poland, July 3-6, 2016, conveyed at the occasion of Seminar at Department of Mathematics, Atilim University, Ankara, Turkey, March 23, 2016.
- E. Savku (and G.-W. Weber), A Stochastic Optimal Control Problem in a Regime-Switching Jump Diffusion Market, Seminar at Department of Mathematics, University of Aveiro, Portugal, May 16, 2016.
- H. Mawengkang, G.-W. Weber and H. Tuydes Yaman, Smart Cities: Better Disaster Transportation Management, Universiti Teknologi Malaysia (UTM), Kuala Lumpur campus (in Mathematics, Physics, Chemistry and Management), Kuala Lumpur, Malaysia, September 25, 2016.
- G.-W. Weber, E. Savku and A. Kerimov, Stochastic Optimal Control of Systems with Regime Switches, Jumps and Delay - in OR, Finance and Economics, Seminar at Department of Industrial Engineering, TOBB Economy and Technology University, Ankara, Turkey, October 26, 2016.
- G.-W. Weber, E. Savku, N. Azevedo, N.S. Aydin, A. Kerimov and D. Pinheiro, Optimal control in economy and finance under stochastic and impulsive environments, regime switches and paradigm shifts, Seminar at Department of Information Science and Systems Engineering, Konan University, Kobe,

- Japan, November 24, 2016.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Department of Information Science and Systems Engineering, Konan University, Kobe, Japan, November 24, 2016.
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Department of Information Science and Systems Engineering, Konan University, Kobe, Japan, November 24, 2016.
  - G.-W. Weber, H. Öz and F. Yilmaz, , A discrete optimality system for an optimal harvesting problem by stochastic optimal control, Presentation to Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
  - G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments in economics and finance, Seminar at Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
  - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Faculty of Environmental and Urban Engineering, Kansai University, Osaka, Japan, November 25, 2016.
  - G.-W. Weber, Stochastic optimal control in finance under impulsive changes and regime switches -foundations, fresh ideas, discussions and friendship-, Seminar at Graduate Institute of Finance, National Taiwan University of Science and Technology, Taipei, Taiwan, December 1, 2016.
  - G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Graduate Institute of Finance, National Taiwan University of Science and Technology, Taipei, Taiwan, December 1, 2016.
  - G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Graduate Institute of Finance, National Taiwan University of Science and Technology, Taipei, Taiwan, December 1, 2016.
  - G.-W. Weber, E. Savku, N.S. Aydin, E. Kilic and A. Kerimov, Optimal control in stochastic, impulsive, regime switching and paradigm shifting environments for economics, business and agriculture, Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.

- G.-W. Weber, H. Öz Bakan and F. Yilmaz, Symplectic Partitioned-Runge Kutta Method for an Optimal Harvesting Problem, conveyed at the occasion of Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
- G.-W. Weber, M.G. Speranza and I. Abi-Zeid, On IFORS 2017, Quebec City, Canada, July 17-21, 2017, at the occasion of Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
- G.-W. Weber, R. Alvarez-Valdes, R. Ruiz and G. Vanden Berghe, EURO 2018 in Valencia, at the occasion of Seminar at Department of Agricultural Economics, National Taiwan University, Taipei, Taiwan, December 2, 2016.
- G.-W. Weber, E. Savku, Y. Yolcu-Okur and A.S. Kestel, Optimal control under stochastic, impulsive, regime switching and paradigm shifting environments, **Video**, IFORS Developing Countries OR Resources Website (recorded at Kansai University, Osaka, Japan, November 2016; formatted at IAM, METU, Turkey, January, 2017, by G. Kara); [http://ifors.org/developing\\_countries/index.php?title=Optimal\\_control\\_under\\_stochastic\\_impulsive\\_regime\\_switching\\_and\\_paradigm\\_shifting\\_environments](http://ifors.org/developing_countries/index.php?title=Optimal_control_under_stochastic_impulsive_regime_switching_and_paradigm_shifting_environments).
- G.-W. Weber, P.C. Sekhar, L. Ozdamar, H. Akar, H. Mawengkang and S. Suwilo, A system approach to understand the factors that influence the quality of primary education in developing nations, Visiting Professor, “International Public Lecture”, Tunas Bangsa Computer Management Academy, Siantar, Sumatra, Indonesia, August 2017.
- G.-W. Weber, On EURO’s activities, at the occasion of: Visiting Professor, “International Public Lecture”, Siantar, Tunas Bangsa Computer Management Academy, Siantar, Sumatra, Indonesia, August 2017.

### 5.3 Posters

- J. Gebert, M. Lätsch, M., S. Pickl, G.-W. Weber and R. Wünschiers, Stability Analysis of Time Series Gene Expression Data, European Conference on Computational Biology, ECCB 2003, Paris, September 27-30, 2003.
- J. Gebert, M. Lätsch, S. Pickl, B. Veroff, G.-W. Weber and R. Wünschiers, Stability Analysis of Time Series Gene Expression Data, European Conference on Computational Biology, ECCB 2003, Paris, September 27-30, 2003.
- J. Gebert, N. Radde, M. Akhmet, H. Öktem and G.-W. Weber, Modelling Gene Regulatory Networks with Piecewise Linear Differential Equations, Cologne University Bioinformatics Center, August 30, 2004.
- E.M.P. Quek, G.-W. Weber and R. Sambanthamurthi, Determination of Control Structure in Lipid Biosynthesis Pathways, *HIBIT - Proceedings of International Symposium on Health Informatics and Bioinformatics, Turkey '05*, Antalya, Turkey, November 2005.
- A. Gökmen, I. Gökmen, G.-W. Weber and D. DeTombe, Improving Sustaina-

- ble Living in Rural Areas in Turkey, EURO XXII 2006, Reykjavik, Iceland, July 2-5, 2006 (also noted in 5.1 as a Discussion Presentation).
- N. Özmen, F. Yerlikaya, D. Gürsoy and G.-W. Weber, The Inverse Problem of MEG, SIAM Students Activity Week, *The Mathematics of the Brain*, METU, Ankara, May 2007.
  - T. Tchemisova, B. Akteke-Öztürk and G.-W. Weber, On Continuous Optimization Methods in Data Mining - Provided for Decision Support and Other Applications, IFIP TC8/WG8.3 Working Conference International Conference on Collaborative Decision Making (CDM'08), Manufacture des Tabacs, Toulouse, France, July 1-4, 2008.
  - A.E. Yilmaz, O.T. Altinoz and G.-W. Weber, Chaos Particle Swarm Optimized PID Controller for the Inverted Pendulum System, EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
  - E. Savku and G.-W. Weber, Optimal Control of Stochastic Hybrid Delayed Models, 2nd Ankara-Istanbul Workshop on Stochastic Processes (0634SP2015), Istanbul, Turkey, 18-19 June 2015.
  - E. Akdogan, Y. Yolcu-Okur and G.-W. Weber, A Survey on Stochastic Control of Itô-Levy Processes: Applications in Finance and Insurance, Vienna Congress on Mathematical Finance - VCMF 2016, Vienna, Austria, September 1214, 2016.
  - E. Savku and G.-W. Weber, Maximum Principle for a Delayed Stochastic Hybrid Model and an Application to Finance, Vienna Congress on Mathematical Finance - VCMF 2016, Vienna, Austria, September 1214, 2016.
  - S. Kuter, Z. Akyürek and G.-W. Weber, Subpixel Snow Cover Mapping from MODIS Data by Nonparametric Regression Splines, poster presented at the 49th Fall Meeting of American Geophysical Union, December 12-16, 2016, San Francisco, USA.
  - G.-W. Weber, various Posters and Certificates prepared for announcing and conducting scientific events, and their subevents, listed under point 6.



## 6 Organization of Scientific Events

### 6.1 Scientific Events Held

- Organizer of various events on “Workshop Analysis” and “Workshop on Discrete Mathematics and Topology”, TU Darmstadt, Germany, 1997-2000.
- Coorganizer of Conference “Mathematische Modellierung und Optimierung” at the Occasion of the Retirement of Prof. Dr. Werner Krabs, TU Darmstadt, Germany, July 1999.
- Coorganizer of Workshop “Optimization - Structure and Stability of Dynamical Systems”, October 2000.
- Organization of the session “Optimal Control of Continuous and Discrete Systems - Theory and Applications” of the conference “EURO 2001” on Operations Research in Rotterdam, July 2000.
- Member of Organizing Committee of Workshop “Smooth and Nonsmooth Optimization: Theory and Applications” of EUROPT, EURO Continuous Optimization Working Group, Rotterdam, July 2001.
- Member of Organizing Committee of International Conference “Computational Technologies and Mathematical Models for Research, Engineering and Education” in Almaty, Kazakhstan, September 2002.
- Member of Organization Committee of the workshop “Advances in Continuous Optimization” of EURO working group EUROPT (preceding EURO / INFORMS Joint International Meeting) in Istanbul, Turkey, July 2003.
- Member of International Programming Committee of International Conference “Computational and Informational Technologies for Science, Engineering, and Education CIT-2003”, Ust'-Kamenogorsk, Kazakhstan, September 2003.
- Member of Organizing Committee of Workshop on Challenges of Continuous Optimization in Theory and Applications in Rhodes, Greece, July 2-3, 2004.
- Organization of the sessions at EURO XX Conference, Rhodes, July 4-7, 2004.
- Member of International Programming Committee of International Conference “Computational Technologies and Mathematical Models for Research, Engineering and Education” in Almaty, Kazakhstan, September 2004.
- Member of Organizing Committee of Workshop on Sustainable Living in Rural Areas of Turkish, Ankara, Turkey, March 7-21, 2005.
- Support for SIAM Conference on Optimization, Stockholm, Sweden, May, 15-18, 2005; in correspondence with the conference organizers and for EUROPT.
- Member of Organizing Committee of 17th EURO Mini Conference Continuous Optimization in the Industry in Pécs, Hungary, June 29 - July 1, 2005.
- Support for IFORS 2005, Hawaii, July 11-15, 2005; in correspondence with

the conference organizers and for EUROPT, e.g., session organization.

- Member in Program Committee of International Conference on Computational Science and Engineering, Istanbul, Turkey, June 27-30, 2005.
- Member of International Program Committee of 7th International Conference CASYS'07, on Computing Anticipatory Systems, International Conferences on Computing Anticipatory Systems in Liege, Belgium, August 8-13, 2005.
- Member of Organizing Committee of Workshop on Complex Societal Problems, Sustainable Living in Development, Ankara, Turkey, April 15-21, 2006.
- Member of Organizing Committee of First Conference of Advanced Mathematical Methods for Finance, Antalya, Turkey, April 26-30, 2006.
- Member of Program Committee of Second Workshop on Algorithmic Techniques for Data Mining 2006 (ATDM 2006), Ben-Gurion University of the Negev, Beer-Sheva, Israel, June 5-7, 2006.
- Member of Organizing Committee of Workshop of Geometric Morphometry, Ankara, Turkey, June 12-16, 2006.
- Member of Organizing Committee of 5th EUROPT Workshop “Advances in Continuous Optimization”, Reykjavik, Iceland, June 30 - July 1, 2006.
- Member of Organizing Committee of Workshop on Networks in Computational Biology, IAM, METU, September 10-12, 2006.
- Member of Program Committee and Plenary Chair of EURO XXI 2006, Reykjavik, Iceland, July 2-5, 2006; Stream and Session Organizer, Session Chair.
- Member of Organizing Committee of EURO Summer Institute 2006 - Optimization Challenges in Engineering: Methods, Software and Applications, Wittenberg, Germany, August 18 - September 2, 2006.
- Member of Program Committee of International Conference “Computational and Informational Technologies for Research, Engineering and Education”, Pavlodar, Kazakhstan, September 20 - 22, 2006.
- Member in Scientific Committee of The International Workshop of Wavelets to Real World Problems II: IWW2007, Isparta, Turkey, June 7-9, 2007.
- Member of Organizing Committee of Workshop on Sustainable Living at Turkish Rural Countryside, Ankara, Turkey, June 8, 2007.
- Member of Program Committee of A Joint EUROPT-OMS Conference, Prague, Czech Republic, July 4-7, 2007; Chair of the Program Committee and Chairman of a session.
- Member of Organizing Committee of PhD Workshop in OR for Development: EURO Working Group OR for Development, Prague, Czech Republic, July 7, 2007.
- Member of Organizing Committee of EURO-CBBM Workshop - Workshop on OR in Computational Biology, Bioinformatics and Medicine, Prague, Czech

Republic, July 8, 2007.

- Member of Organizing Committee of EURO XXII 2007, Prague, Czech Republic, July 8-11, 2007; Stream and Session Organizer, Session Chair.
- Member of Program Committee of INFORMS International 2007, Puerto Rico, July 8-11, 2007.
- Member of International Program Committee 8th International Conference CASYS'07, on Computing Anticipatory Systems, International Conferences on Computing Anticipatory Systems in Liege, Belgium, August 6-11, 2007.
- Member of Organizing and Program Committees of Video Conference on Complex Societal Problems, METU, Ankara, and University of Amsterdam, The Netherlands, December 11, 2007.
- Member in Program Committee of Nonconvex Programming: Local and Global Approaches, Theory, Algorithms and Applications, Rouen, France, December 17-21, 2007.
- Member of Program Committee and Member of Organizing Committee and Chair of Organizing Committee of Workshop in Memory of Professor Hayri Körezlioğlu: Recent Developments in Financial Mathematics and Stochastic Calculus, Ankara, Turkey, April 25-26, 2008.
- Member of Organizing Committee of Workshop *The Simulation Tool Box for the Financial Engineer*, in Memory of Professor Hayri Körezlioğlu, Ankara, Turkey, April 23-24, 2008.
- Member of Program Committee of International Workshop on Hybrid Systems: Modeling, Simulation and Optimization, Istanbul, Turkey, May 14-17, 2008.
- Member of Organizing Committee and Program Committee of *Workshop on Complex Societal Problems, Sustainable Living and Development*, Ankara, Turkey, May 16, 2008.
- Member of Organizing Committee and Program Committee of International Symposium on Health Informatics and Bioinformatics (HIBIT '08), Istanbul, Turkey, May 18-20, 2008.
- Member of Program Committee, member of Organizing Committee, Co-Chair and Member of Board of Reviewers of 20th Mini EURO Conference - Continuous Optimization and Knowledge-Based Technologies, Neringa, Lithuania, May 20-23, 2008; SIAM representative and EUROPT representative.
- Member of Organizing Committee of 13th Annual Conference on Biomedical Engineering (13. Biyomedikal Mühendisliği Ulusal Toplantısı), METU, Ankara, Turkey, May 29-31, 2008.
- Member of Organizing Committee of International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008.
- Member of Program Committee of IFIP TC8/WG8.3 Working Conference

- International Conference on Collaborative Decision Making (CDM'08), Manufacture des Tabacs, Toulouse, France, July 1-4, 2008.
- Support for IFORS 2008 Sandton, South Africa, July 13-18, 2008; in correspondence with the Chairs of the Organizing Committee and the Programm Committee, and for EUROPT; Stream Organizer.
  - Member of International Program Committee of International Conference on Power Control and Optimization, Chiang Mai, Thailand, July 18-20, 2008.
  - Member of International Program Committee of Conference “Modelling, Computation and Optimization in Information Systems and Management Sciences” (MCO'08), Metz, France - Luxembourg, September 8-10, 2008.
  - Member of Program and Organizing Committee of Mini EURO Conference “CBBM Conference on Computational Biology, Bioinformatics and Medicine”, Rome, Italy, September 15-17, 2008.
  - Member of Organizing Committee of “Workshop in Game Theory” at the Occasion of the Visit of Prof. Dr. R. Branzei and Prof. Dr. S. Tijs, in the framework of Seminar on Applied Mathematics in Life and Human Sciences and Economy, IAM, METU, January 30, 2009.
  - Member of Programme Committee of the conference Nonlinear Analysis and Applications (nonlinear 09) in memory of Professor Valeriy Melnik, National Technical University of Ukraine, Kiev, Ukraine, April 2-4, 2009.
  - Member of Organizing Committee of HIBIT 2009 - 4th International Symposium on Health Informatics and Bioinformatics, Ankara, Turkey, April 16-17, 2009.
  - Member of Organizing Committee of Preworkshop Seminar Series “Asset Liability Models for Life Insurances”, to the Memory of Professor Jürgen Lehn, METU, Ankara, Turkey, April 22, 2009.
  - Member of Program Committee and member of Organizing Committee of Workshop on Recent Developments in Applied Probability and Statistics, Dedicated to the Memory of Professor Jürgen Lehn, METU, Ankara, Turkey, April 23-24, 2009.
  - Member of Program Committee and member of Organizing Committee (and session chair) of Workshop “Complex Systems - Theory and Applications in Sciences and Engineering”, Ankara, Turkey, May 14-15, 2009.
  - Member of International Reviewers and Program Committee, and of Steering Committee of Second Global Conference on Power and Optimization — PCO2009, Bali, Indonesia, June 1-3, 2009.
  - Member of International Scientific Committee of the 4th OCA, International Conference on Optimization and Control with Applications, Harbin and Wudalianchi, China, June 7-11, 2009.
  - Member of Program Committee and member of Organizing Committee of 7th

- EUROPT Workshop “Advances in Continuous Optimization”, University of Applied Sciences, Remagen, Germany, July 3-4, 2009.
- Member of Program Committee and member of Organizing Committee of A EURO ORD Workshop on OR for Developing Countries — Young Researchers and PhD Symposium, University of Applied Sciences, Remagen, July 4, 2009.
  - Member of Organizing Committee of State-of-the-Art Workshop — Mutual session of special researchers of several Euro working groups OR for Development, Ethics, Decision Making, Methodology of Societal Complexity and others, University of Applied Sciences, Remagen, Germany, July 5, 2009.
  - Member of Programme Committee and member of Organizing Committee of EURO XXIII 2009, Bonn, Germany, July 5-8, 2009.
  - Member of Program Committee, and of Program Committee of the track “Applied Operations Research and Optimization” at 2009 IEEE-RIVF International Conference on Computing and Telecommunication Technologies — IEEE-RIVF 2009, Da Nang City, Vietnam, July 13-17, 2009.
  - Member of International Programme Committee of 9th International Conference CASYS’09 on Computing Anticipatory Systems, Liege, Belgium, August 3-8, 2009.
  - Member of Programme Committee of 4th Summer School “Achievements and Applications of Contemporary Informatics”, Mathematics and Physics (AACIMP-09), National Technical University of Ukraine (KPI), Kiev, Ukraine, August 5-16, 2009.
  - Member of International Steering Committee and member of International Programme Committee of EURO Mini Conference “Knowledge-Based Technologies and OR for Strategic Decisions of Sustainable Development”, Vilnius, Lithuania, September 30 - October 3, 2009.
  - Member of Organizing Committee and member of the Programme Committee of “14th International Congress on Computational and Applied Mathematics”, Antalya, Turkey, September 29 - October 2, 2009.
  - Member of Organizing Committee and International Program Committee of 3rd Global Conference on Power and Optimization — PCO 2010, Marriott Hotel, Gold Coast, Australia, February 2-4, 2010.
  - Member of Program Committee of the International Symposium on Health Informatics and Bioinformatics (HIBIT), 2010, Antalya, Turkey, April 20-22, 2010.
  - Invited Cluster Chair at ALIO/INFORMS Joint International Meeting 2010, Buenos Aires, Argentina, June 6-9, 2010.
  - Member of Programme Committee and member of Organizing Committee of International Conference Mini EURO Conference “Continuous Optimizati-

- on and Information-Based Technologies in the Financial Sector” (EurOPT-2010), June 23-26, 2010, Izmir, Turkey; Co-Chair of the Organizing Committee of the conference.
- Member of Scientific Committee of International Conference on Modeling, Optimization and Dynamics (ICMOD 2010), Porto, Portugal, Lisbon, Portugal, July 4-7, 2010.
  - Member of Program Committee of the 15th IFIP WG 8.3 International Conference on Decision Support Systems (DSS 2010), July 7-10, 2010.
  - Member of International Organizing Committee of the 8th EUROPT Workshop “Advances in Continuous Optimization”, Aveiro, Portugal, July 9-10, 2010.
  - Member of Programme Committee and member of Organizing Committee of “A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium”, Lisbon, Portugal, July 10, 2010.
  - Member of Programme Committee and member of Organizing Committee of “State-of-the-Art Workshop — a Workshop Related to EURO XXIV / EUROPT / EURO ORD / EUROMSC / Ethics — Mutual Session of Special Researchers of EURO Working Groups: OR and Developing Countries, Ethics, Methodology of Societal Complexity, Optimization, MCDA”, Lisbon, Portugal, July 11, 2010.
  - Member of Programme Committee of EURO XXIV 2010, Lisbon, Portugal, July 11-14, 2010.
  - Member of International Programme Committee of 3rd Conference on Non-linear Science and Complexity (NSC 3rd), July 28-31, 2010, Ankara, Turkey.
  - Member of Programme Committee and member of Organizing Committee of International Conference Operations Research (OR 2010), Annual Conference of the German OR Society, Universität der Bundeswehr, Munich, Germany, September 1-3, 2010.
  - Member of International Organizing Committee of EngOpt 2010 - 2nd International Conference on Engineering Optimization Lisbon, Portugal, September 6-9, 2010.
  - Member of Organizing Committee of VI Moscow International Conference on Operations Research (ORM 2010), Moscow, Russia, October 20-25, 2010.
  - Member of Program Committee of IEEE-RIVF International Conference on Computing and Telecommunication Technologies, 2010, Hanoi, Vietnam, November 1-4, 2010.
  - Member of Steering Committee of 4rd Global Conference on Power and Optimization — PCO 2010, Damai Puri, Kuching, Sarawak Borneo, Malaysia, December 2-4, 2010.
  - Member of International Programme Committee of The International Confe-

- rence on Optimization: Techniques and Applications (ICOTA 8), Shanghai, China, December 10-13, 2010.
- Member of Scientific Committee of the *1st School CREMMA-EMRCMA: "Mathematics and Finance"* Euro-Mediterranean Research Center for Mathematics and Its Applications, Tunis, Tunisia, March-May 2011.
  - Member of Program Committee of the *5th International Symposium on Health Informatics and Bioinformatics, HIBIT'11*, Izmir, Turkey, May 2-5, 2011.
  - Member of Program Committee of the *Workshop on Complex Systems and Mathematics* (Mathematics Awareness Month), Ankara, Turkey, May 26, 2011.
  - Member and Chair of Steering Committee of 5th Global Conference on Power and Optimization — PCO 2011, Dubai, La Meridien Hotel, June 1-3, 2011.
  - Member of Program and Organizing Committee of Workshop on "Bioinformatics" at the occasion of visit of Prof. Dr. Röbbbe Wünschiers at IAM of METU, Ankara, Turkey, June 20-24, 2011.
  - Member of Programme Committee of the 9th EUROPT Workshop on Advances in Continuous Optimization, Ballarat, Australia, July 8-9, 2011.
  - Member of Scientific Committee of Summer School *Intensive Programme (IP) in on Mathematical Models in Seismology — SeisMath IP 2011* (Erasmus Intensive Programme), L'Aquila, Italy, July 4-15, 2011.
  - Member in Scientific Programme Committee of IFORS 2011, Melbourne, Australia, July 10-15, 2011.
  - Member in International Committee of International Seminar on Operational Research - InteriOR, Medan, Indonesia, July 27-28, 2011.
  - Member in International Scientific Programme Committee of CASYS'11, 10th International Conference CASYS'11 on Computing Anticipatory Systems, Liège, Belgium, August 8-13, 2011.
  - Member in Programme Committee of 6th International Summer School - 2011 - Achievements and Applications of Contemporary Informatics, Mathematics and Physics, Kiev, Ukraine, August 8-20, 2011.
  - Member in International Scientific Programme Committee of 3rd International Conference on Applied Operational Research 2011 (ICAOR 2011), Istanbul, Turkey, August 24-26, 2011.
  - Member in Support (Announcement, Publication) Team of 2011 Kerkenes Festival, Kerkenes, Sorgun, Yozgat and METU, Ankara, Turkey, October 1, 2011.
  - Member in Programme Committee of SMECS 2011 (4th International Workshop on Simulation and Modelling of Engineering & Computational Systems), Barcelona, Spain, October 26-28, 2011.
  - Member in International Program Committee of ICORES 2012 (1st Inter-

- national Conference on Operations Research and Enterprise Systems), Vila-moura, Algarve, Portugal, February 4-6, 2012.
- Member in Program Committee of IEEE RIVF 2012 in Ho Chi Minh City, Vietnam, February 28 - March 1, 2012.
  - Member of Scientific Committee of the 2nd School CREMMA-EMRCMA: *Mathematics and Finance*, Euro-Mediterranean Research Center for Mathematics and Its Applications, Tunis, Tunisia, March 19 - April 6, 2012.
  - Member of Program Committee of the 2nd International Conference Nonlinear Analysis and Applications in the Memory of V. Melnik, NTUU (KPI), Kiev, Ukraine, April 4-6, 2012.
  - Member of Evaluation / Programme Committee of 3. Ulusal Yüksek Basarimli Hesaplama Konferansi, Bilkent University, Ankara, April 12-14, 2012.
  - Member of Programme Committee of 7th International Symposium on Health Informatics and Bioinformatics (HIBIT), 2012, HIBIT 2012, Kapadokya, Nevsehir, Turkey, April 19-22, 2012.
  - Chair of Programme Committee and Co-Chair of Organizing Committee of ECCO 2012 Conference in Antalya, Turkey, April 27-29, 2012; ECCO is the European Chapter on Combinatorial Optimization.
  - Member of Programme Committee of Uluslararası Lojistik ve Tedarik Zinciri Kongresi, Konya University, Turkey, May 10-12, 2012.
  - Member of Organizing Committee of CTW 2012 Munich - 11th Cologne-Twente Workshop on Graphs and Combinatorial Optimization, Munich, Germany, May 29-31, 2012.
  - Member of International Advisory Board of EngOpt 2012 - 3rd International Conference on Engineering Optimization, Rio de Janeiro, Brazil, July 1-5, 2012.
  - Member of Scientific Committee of the Symposium in Honour of Prof. Dr. Ömer Gebizlioglu, June 15, 2012, Ankara University, Ankara, Turkey.
  - Member of International Science Committee of MECO-2012, Mediterranean International Conference on Embedded Computing, June 19-21, 2012, Hotel Princess, Bar, Montenegro.
  - Member of Program Committee of ICCGI 2012, The Seventh International Multi-Conference on Computing in the Global Information Technology, Venice, Italy, June 24-29, 2012.
  - Member of Organizing Committee and member of Program Committee of the 10th EUROPT Workshop on Advances in Continuous Optimization, Shiauliai, Lithuania, July 5-7, 2012.
  - Member of Programme Committee and member of Organizing Committee of “A EURO ORD Workshop on OR for Developing Countries - Young Researchers and PhD Symposium”, Vilnius, Lithuania, July 7, 2012.



- Member of Programme Committee and member of Organizing Committee of “Satellite Workshop of The State of The Art on problem handling and decision making”, Vilnius, Lithuania, July 8, 2012.
- Member of Programme Committee of EURO XXV, Vilnius, Lithuania, July 8-11, 2012.
- Advisory Committee Chair of ICIDMP2012, 2012 International Conference on Industrial Design and Mechanical Power, Huangshan, China, July 10-12, 2012.
- Member of Program Committee of IADIS European Conference Data Mining 2012, Lisbon, Portugal, July 21-23, 2012.
- Member of Steering Committee of 6th Global Conference on Power and Optimization — PCO 2012, Las Vegas, USA, August 6-8, 2012, 2012.
- Member of Organising Committee of Mini EURO Conference on Computational Biology, Bioinformatics and Medicine, Nottingham, UK, September 13-15, 2012.
- Member of Programme Committee of *1st International Conference on Operations Research and Enterprise Systems (ICORES 2012)*, Singapore, September 12-13, 2012.
- Member of Programme Committee of *International Conference on Applied and Computational Mathematics (ICACM)* on the occasion of the 10th Anniversary of the Foundation of IAM, METU, Ankara, Turkey, October 3-6, 2012.
- Member of International Advisory Committee of ICORD 2012 — Workshop: Problem Structuring Methods, Djerba Island, Tunisia, October 12-13, 2012.
- Member of International Programme Committee of *International Conference on Operations Research and Enterprise Systems (ICORES 2013)*, Barcelona, Spain, February 16-18, 2013.
- Member of Scientific Committee of *International Istanbul Finance Congress 2013 (IIFC2013)*, Kadir Has University, Istanbul, Turkey, May 30-31, 2013.
- Member of Programme Committee of *2nd Mediterranean Conference on Embedded Computing (MECO)*, June 16-20, 2013, Budva, Montenegro.
- Member of Programme Committee of *EUROPT 2013 - Meeting of the Continuous Optimization Group of EURO*, Florence, Italy, June 26-28, 2013.
- Member of Programme Committee of joint ICORD / EWG ORD workshop *OR: Addressing Issues of Development*, Rome, Italy, June 27-28, 2013.
- Member of the Workshop Committee of the State-of-the-Art Workshop of several EURO Working Groups, Rome, Italy, July 1, 2013
- Member of Programme Committee of *EURO-INFORMS MMXIII, 26th European Conference on Operational Research*, Rome, Italy, July 1-4, 2013.

- Member of the Technical Program Committee of *The Eighth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2013)*, Nice, France, July 21- 26, 2013.
- Member of Programme Committee of the *IADIS European Conference Data Mining 2013*, Prague, Czech Republic, July 22-24, 2013.
- Member of Advisory Board / Programme Committee of *VIII Summer School Achievements and Applications of Contemporary Informatics, Mathematics and Physics (AACIMP-2013)* will take place in August 1-17, 2013, Kyiv Polytechnic Institute in Kiev, Ukraine.
- Member of Technical Program Committee of *The 2nd International Conference on Industrial Design and Mechanics Power (ICIDMP2013)*, Nanjing, China, August 24-25, 2013.
- Member of Steering Committee of *The Seventh Global Conference on Power Control & Optimization (PCO2013)*, Prague, Czech Republic, August 25-27, 2013.
- Member of International Scientific Committee of *InteriOR (International Conference on Operational Research) 2013*, Medan, Indonesia, August 25-28, 2013.
- Member of Programme Committee of *2nd International Conference on Operations Research and Enterprise Systems (ICORES 2013)*, Barcelona, Spain, September 16-18, 2013.
- Member of Steering Committee of *The Seventh Global Conference on Power Control & Optimization (PCO2013)*, Kota Kinabalu, Malaysia, October 7-9, 2013.
- Member of International Scientific Program Committee of the *11th International Conference on Approximation and Optimization in the Caribbean*, Puebla, Mexico, October 13-18, 2013.
- Member of Program Committee of the *VII Moscow International Conference on Operations Research (ORM 2013)*, Moscow, Russia, October 15-19, 2013.
- Member of Program Committee of *The 10th IEEE RIVF International Conference on Computing and Communication Technologies (RIVF-2013)*, Hanoi, Vietnam, November 10-13, 2013.
- Member of Steering Committee of *The Seventh Global Conference on Power Control & Optimization (PCO2013)*, Yangon, Myanmar, December 2-3, 2013.
- Member of Program Committee of *IAM Alumni Meeting: Workshop on Finance and Risk Program*, METU, Ankara, Turkey, December 7, 2013.
- Member of International Program Committee of 9th International Conference on Optimization: Techniques and Applications (ICOTA-9), Taipei, Taiwan, December 13-15, 2013.
- Member of International Programme Committee of EURO Mini Conference

- on Optimization in the Natural Sciences (EURO mini 2014), Aveiro, Portugal, February 5-9, 2014.
- Member of Scientific Committee of 3rd International Conference on Dynamics, Games and Science, Porto, Portugal, February 17-21, 2014.
  - Member of International Programme Committee of *International Conference on Operations Research and Enterprise Systems (ICORES 2014)*, ESEO, Anger, Loire Valley, France, March 6-8, 2014.
  - Member of Programme Committee of 11th International Conference on Applied Mathematical Optimization and Modelling (APMOD 2014), Warwick, Coventry, United Kingdom, April 9-11, 2014.
  - Member of Organizing Committee of ECCO-CO XXVII (European Chapter on Combinatorial Optimization), May 1-3, 2014, Munich, Germany.
  - Member of Program Committee of 9th International Statistics Day Symposium ISDS 2014, Antalya, Turkey, May 10-14, 2014.
  - Member of Organizing Committee of One-Day Workshop on Recent Advances in Stochastic Dynamics, Modelling and Optimization, May 27, 2014, Mimar Sinan Fine Arts University, Istanbul, Turkey.
  - Member of Program Committee of the 11th International Conference on Computational Management Science (CMS 2014), Lisbon, Portugal, May 29-31, 2014.
  - Member of International Advisory Board of *Special Interest Conference on Engineering and Applied Sciences Optimization (OPTI 2014)*, Kos Island, Greece, June 4-6, 2014.
  - Member of International Program Committee of International Conference on Industrial Design and Mechanics Power (ICIDMP2014), Beijing, China, June 21-22, 2014.
  - Member of Program Committee of International Work-Conference on Time Series (ITISE 2014), Granada, Spain, June 25-27, 2014.
  - Member of Program Committee and Organizing Committee of EURO Working Group Conference on Operational Research in Computational Biology, Bioinformatics and Medicine, Poznan, Poland, June, 26-28, 2014.
  - Member of Program Committee of 12th EUROPT Workshop on Advances in Continuous Optimization, Perpignan, France, July 10-12, 2014.
  - Member of Program Committee of the Joint ICORD - EWG-ORD Workshop in Lleida, Spain, July 11-12, 2014.
  - Member of Workshop Committee of the Workshop of The State of The Art, Barcelona, July 13-18, 2014.
  - Member of Program Committee of 20th IFORS Conference, Barcelona, July 13-18, 2014.

- Member of International Steering Committee of 8th PCO (Global Conference on Power Control & Optimization), Krabi, Thailand, July 13-14, 2014.
- Member of Program Committee of the 8th European Conference on Data Mining 2014 (ECDM 2014) Conference, Lisbon, Portugal, July 15-17, 2014.
- Member of International Advisory Board of 4th International Conference on Engineering Optimization (EngOpt 2014), Lisbon, Portugal, September 7-11, 2014.
- Member of Scientific Committee of International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Antalya, Turkey, October 25-29, 2014.
- Member of International Program Committee of First Pacific Optimization Conference (POC2014), Wuxi, China, October 31 - November 2, 2014.
- Member of the Program Committee of The 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2014), Singapore, November 10-12, 2014.
- Member of Program Committee of RIVF-2015 (The 11th IEEE-RIVF International Conference on Computing and Communication Technologies), Can Tho City, Vietnam, January 25-28, 2015.
- Member of the Program Committee of ACIIDS 2015 (7th Asian Conference on Intelligent Information and Database Systems), Bali, Indonesia, March 23-25, 2015.
- Member of the Program Committee of “Nonlinear Analysis and Applications” - 3rd Conference in Memory of Corresponding Member of National Academy of Sciences of Ukraine Valery Sergeyeovich Menik (1952 - 2007), Kiev, Ukraine, April 1-3, 2015.
- Member of Organizing Committee (Co-chair) and Program Committee of Joint ORSC-EURO Conference 2015 on Continuous Optimization, Shanghai, China, May 10-12, 2015.
- Member of Organizing Committee (Co-chair) of 55th Meeting of EWGCFM, EURO Working Group “Commodities and Financial Modelling”, METU, Ankara, Turkey, May 14-16, 2015.
- Member of International Program Committee of the MCO 2015 Conference, Metz, France, May 11-13, 2015.
- Member of Program Committee of The 13th EUROPT Workshop on Continuous Optimization, Edinburgh, UK, July 8-10, 2015.
- Member of Workshop Committee (OC-PC) of EWG ORD - IFORS Workshop on OR for Development, Glasgow, Scotland, July 9-10, 2015.
- Member of Workshop Committee (OC-PC) of State-of-the-Art Workshop of several EURO Working Groups, Glasgow, Scotland, July 12, 2015.

- Member of Program Committee of *EURO 2015, 27th European Conference on Operational Research*, Glasgow, United Kingdom, July 12-15, 2015.
- Member of the Program Committee of 9th European Conference on Data Mining 2015 (DM 2015), Las Palmas de Gran Canaria, Spain, July 22-24, 2015.
- Member of International Scientific Committee of *InteriOR 2015*, The 3rd International Seminar on Operational Research, Medan, Indonesia, August 21-23, 2015.
- Member of Advisory Board of The 35th National Congress of Industrial Engineering and Operations Research (YAEM 2015), METU, Ankara, Turkey, September 9-11, 2015.
- Member of Program Committee of SOR '15 — The 13th International Symposium on Operations Research in Slovenia, Bled, Slovenia 23-25, September 2015.
- Member of Steering Committee of ICEMIS 2015 - The International Conference on Engineering & MIS 2015, Istanbul, Turkey, September 24-26, 2015.
- Member of the International Steering Committee of International Festival of Science, Technology, Engineering and Mathematics (STEMfest), September 27 - October 3, 2015, Saskatoon Canada, including 9th Power Control and Optimisation Conference (PCO Global), September 27-29, 2015.
- Member of Scientific Committee of the 2nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2015), Kemer, Antalya, Turkey, October 14-19, 2015.
- Member of Program Committee of *International Conference on Computers & Industrial Engineering (CIE45)*, Metz, France Université de Lorraine LCOMS, October 28-30, 2015.
- Member of Program Committee of *The International Conference on Operational Research for Development 2015 (ICORD 2015)*, December 3-4, 2005, Uswetakeiyava (North of Colombo), Sri Lanka.
- Member of Scientific Committee of The 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, January 25-26, 2016.
- Member of Program Committee of *8th Lithuanian Young Scientist Conference "Operational Research in Business, Engineering and Informational Technologies (LOTD-2016)"*, Kaunas, Lithuania, April 8, 2016.
- Member of Scientific Program Committee of International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications (IC-SMHD-2016), Nevsehir, Cappadocia, Turkey, May 18-21, 2016.
- Member of Program Committee of *Applied Mathematical Programming and Modelling (APMOD 2016)*, Brno, Czech Republic, June 8-10, 2016.
- Member of Organizing Committee of EngOpt 2016, Iguassu Falls, Brazil, June

19-23, 2016.

- Member of Scientific Committee of NUMTA 2016, the 2nd International Conference and Summer School *Numerical Computations: Theory and Algorithms*, Pizzo Calabro, Calabria, Italy, June 19-25, 2016.
- Member of Program Committee of EUROPT 2016, Warsaw, Poland, July 1-2, 2016.
- Member of Conference Committee of EURO ORD Workshop on OR for Development, Poznan, Poland, July 1-2, 2016.
- Member of Workshop Committee of State-of-the-Art Workshop, Poznan, Poland, July 3, 2016.
- Member of Program Committee of EURO 2016, Poznan, Poland, July 3-6, 2016.
- Member of International Program Committee of 10th International Conference on Optimization: Techniques and Applications (10th ICOTA), Ulaanbaatar, Mongolia, July 23-26, 2016.
- Member of Steering Committee of ICEMIS 2016, Ibn Zoher University, Agadir, Morocco, September 22-24, 2016.
- Member of Scientific Committee of ICCESN 2016 - 3rd International Conference on Computational and Experimental Science and Engineering, Kemer, Antalya, Turkey, October 19-24, 2016.
- Member of Program Committee of the VIII Moscow International Conference on Operations Research (ORM2016), Moscow, Russia, October 17-22, 2016.
- Member of Organizing Committee and Honorary Chair of COMPSE 2016 - First EAI Conference on Computer Science and Engineering, Penang, Malaysia, November 10-12, 2016.
- Member of Program Committee of The 12th IEEE-RIVF International Conference on Computing and Communication Technologies, Ha Noi, Vietnam, November 7-9, 2016.
- Member of Program Committee of IESM'16 - 3rd International Conference on Industrial Engineering & Sustainable Management, Isfahan, Iran, December 13-15, 2016.
- Member of Program Committee of The 2017 International Conference on Advanced Technologies Enhancing Education (ICAT2E2017), Qingdao, China, March 18-20, 2017.
- Member of International Scientific Committee of International Workshop of Mathematical Methods in Engineering (MME 2017), April 27-29, 2017.
- Member of Scientific Committee of the 3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC-2017), Konya, Turkey, May 24-26, 2017.

- Member of the Technical Program Committee of Energy Efficient Networking, Platforms, Systems and Protocols for WSNs an IoT, EEN-PSP workshop at The 13th IWCMC 2017 Conference in Valencia, Spain, June 26-30, 2017.
- Member of Program Committee of the 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada, July 12-14, 2017.
- Member of Organizing Committee of the International Conference on OR for Development ICORD 2017, Québec, Canada, July 13-14, 2017.
- Member of Program Committee of the 21th IFORS Conference, Québec, Canada, July 15-21, 2017.
- Member of the International Scientific Committee of *InteriOR 2017 (The 4th International Conference on Operational Research)*, Medan, Indonesia, Medan, August 21-23, 2017.
- Member of the Scientific Committee of *1st IconICT (The International Conference on Information and Communication Technologies) 2017*, HARAPAN, Medan, Indonesia, August 25-27, 2017.
- Member of Publicity Committee of The International Conference on Engineering and Technology 2017, Akdeniz University, Antalya, Turkey, August 21-23, 2017.
- Member of International Scientific Committee of 2nd Global Conference on Theory and Applications of OR/OM for Sustainability (GCTAOS), Beijing, China, September 6-8, 2017.

## **6.2 Future Events (in Preparation)**

- Member of Scientific Committee of ICCESSEN 2017 - 4th International Conference on Computational and Experimental Science and Engineering, Side, Antalya, Turkey, October 4-8, 2017.
- Member of Program Committee of COMPSE 2017, 2nd EAI International Conference on Computer Science and Engineering, Bangkok, Thailand, November 34, 2017.
- Member of the Advisory Committee of The Second Pacific Optimization Conference (POC 2017), Perth, Australia, December 5-7, 2017.
- Member of Program Committee of 4th International Conference on Optimization Methods and Software, Havana, Cuba, December 16-20, 2017.
- Member of Program Committee of EURO 2018, Valencia, Spain, July 8-10, 2018.
- Member of Program Committee of EURO 2019, Dublin, Ireland, June 23-26, 2019.
- Further Invitations to CAS-MPG Partner Institute on Computational Biology, Shanghai, China, to Fudan University, Shanghai (China), Taishan Scholars Academic Forum (Shandong, China), The Chinese University of Hong Kong,

University of Braunschweig, University of Marburg, Munich University of Technology and Universität der Bundeswehr, München, Max Planck Institutes in Magdeburg, Leipzig and Stuttgart (Germany), University of Amsterdam (The Netherlands), Karl-Franzens University, Graz, and University of Vienna (Austria), LITA - University Paul Verlaine-Metz (France), University of Economics, Prague, and University of Zlin (Czech Republic), Poznan University of Technology (Poland), University of Aveiro and University of Minho, Braga (Portugal), University of Bristol, University of Birmingham, University of Strathclyde, Glasgow, and University of Edinburgh (United Kingdom), Technion, Haifa (Israel), ORT Braude College, Karmiel (Israel), Universidad de las Americas, UDLA, Puebla (Mexico), Memorial University, New Foundland, and McMaster University, Hamilton (Canada), University of Florida, Gainesville (USA), Institute of Computational Technologies at Novosibirsk Scientific Centre (Siberian Branch of Russian Academy of Sciences), Higher School of Economics (Moscow), University of Kazan (Russia), Lomonosov Moscow State University, and Computing Centre of the Russian Academy of Sciences, Moscow (Russia), Al-Farabi Kazakh National University (Almaty, Kazakstan), Universitas Sumatera Utara and Sekolah Tinggi Teknik Harapan (STTH) (both in Medan, Sumatra, Indonesia), Tunas Bangsa Computer Management Academy (Siantar, Sumatra, Indonesia), University of Ballarat (Australia), University of New South Wales (Sydney, Australia) and University of South Australia and Flinders University (Adelaide, Australia), National Academy of Aviation of Azerbaijan (Baku), National Taiwan University and National Taiwan University of Science and Technology (Taipei, Taiwan), University of Salerno (Italy), Hacettepe University (Ankara, Turkey), Atatürk University (Erzurum), Balikesir University (Balikesir) and Mimar Sinan Fine Arts University (Istanbul) (Turkey), Cag University (Tarsus), Dicle University (Diyarbakir), Selcuk University (Konya) and Süleyman Demirel University (Isparta) and Universidade Federal do Rio de Janeiro (Brazil) University to Kyoto, Konan University, Kobe, Kansai University, Osaka (all in Japan), University of Vilnius (Lithuania), Stellenbosch University (South Africa), University of Maribor (Slovenia), University of Technology, Malaysisa (UTM), Sultan Qaboos University (Oman), Kanzai University (Osaka, Japan).

Gerhard-Wilhelm Weber, Ankara, September 26, 2017

I thank my Lord Jesus Christ.