METU | INSTITUTE OF APPLIED MATHEMATICS

MONTHLY BULLETIN

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Contents

1   Journal Articles

- S. Kuter, Z. Akyurek and G.-W. Weber, *Retrieval of Fractional Snow Covered Area from MODIS Data by Multivariate Adaptive Regression Splines*, Remote Sensing of Environment 205, 236–252, 2017.

- M. B. İlter and M. Cenk, *Efficient Big Integer Multiplication in Cryptography*, International Journal of Information Security Science, 6(4), 70-78, 2017.

2   Editorial

- M. Tezer–Sezgin and Bülent Karasözen, *International Conference on Boundary Element and Meshless Techniques XVII*, European Journal of Computational Mechanics 26:4, 351–352, 2017, DOI:10.1080/17797179.2017.1396035.

3 Books & Book Chapters

- D. DeTombe, G.-W. Weber and S. Kuter, *Societal Complexity, Data Mining and Gaming–State–of–the–Art 2017*, Based on conference of IFORS2017, Operational Research ICCI & IWPI/EUROPT / Ethics and OR, Greenhill & Waterfront, Europe: Amsterdam, The Netherlands; Guilford, UK North-America: Montreal, Canada, ISBN/EAN 978-90-77171-54-7, 142 pages, 2017.

4 Accepted Publications

- E. Ayyıldız, V. Purutçuoğlu and G.-W. Weber, *Loop–based Conic Multivariate Adaptive Regression Splines Is a Novel Method for Advanced Construction of Complex Biological Networks*, to appear in European Journal of Operational Research, the Special Issue Extending the OR Horizons, at the occasion of EURO 2016 in Poznan, Poland.

- E. Kropat, S. Meyer–Nieberg and G.-W. Weber, *Computational Networks and Systems–Homogenization of Variational Problems on Micro-Architectured Networks and Devices*, to appear in Optimization Methods and Software, the Special Issue at the occasion of ICCESEN 2016, Antalya, Turkey.

5 Conference Participation & Presentation

- B. Yıldırım Külekçi, *Risk Measurement Using Extreme Value Theory: The Case of BIST100 Index*, 10th International Statistics Congress (ISC2017), Ankara, Turkey, December 6-8, 2017.

- Ö. M. Mert, *Dependence Analysis with Normally Distributed Aggregate Claims in Stop Loss Insurance*, 10th International Statistics Congress (ISC2017), Ankara, Turkey, December 6-8, 2017.

6 Colloquia & Seminars

- *Geometry and Blood Flow Pre-surgical Design of Complex Cardiovascular Surgeries*, Kerem Pekkan, Department of Mechanical Engineering, Koç University, December 05, 2017.

- *Blockchain to the rescue: Myth or reality?*, Pelin Angın, Department of Computer Engineering, METU, December 12, 2017.

- *Approximations of the Stokes Eigenvalue Problem Based on Penalty Techniques*, Önder Türk, Department of Mathematics, Gebze Technical University, December 19, 2017.

- *Part I: Introduction to Hybridized Discontinuous Galerkin (HDG) Methods*, Ali Abdullah Sivas, University of Waterloo, December 21, 2017.

- *Part II: How to Implement Hybridized Discontinuous Galerkin (HDG) Methods Efficiently in MATLAB?*, Ali Abdullah Sivas, University of Waterloo, December 22, 2017.

- *Risk–Averse Stochastic Modeling and Optimization*, Nilay Noyan, Department of Industrial Engineering, Sabancı University, December 26, 2017.