METU | INSTITUTE OF APPLIED MATHEMATICS

MONTHLY BULLETIN

JANUARY 2017

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1 Journal Articles

- E. Akyıldız, N. Y. Harold and A. Sınak, *Free Storage Basis Conversion over Finite Fields*, Turkish Journal of Mathematics 41, 96–109, 2007, DOI:10.3906/mat-1503-84.

2 News & Popular Articles, Films, Videos

- G.-W. Weber, *Optimal Control under Stochastic, Impulsive, Regime Switching and Paradigm Shifting Environments*, 2016 Video Lecture in Japan Kansai University, at Euro working Group MSC-Methodology of Societal Complexity publications, http://www.complexitycourse.org/mscpublication.html, January 2017.

- 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?titl

- G.W. Weber and E. Savku, *Optimal Control in Economics and Finance*, Video published at Youtube (https://www.youtube.com/watch?v=Lwhrh7HzbpA&feature=youtu.be) and METU International Student Association–ODTU Internationals–MISA/Oi (facebook), January 2017.

3 Accepted Publications

- B. Karasözen and M. Uzunca, *Energy Stable Model Order Reduction for the Allen–Cahn Equation*, to appear in the Proceedings of the Model Reduction of Parameterized Systems III, 13–16, 2015, Trieste, Italy.
- A. Çevik, G.-W. Weber, B.M. Eyüboglu and K. Karlı Oğuz, *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).
- 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).

4 Thesis

- Sinem Keskin, *Modern Portfolio Optimization with Value at Risk and Conditional Value at Risk–Explanation, Evaluation and Comparison*, Master's thesis in Financial Mathematics, Advisor: Gerhard Wilhelm Weber.
- E. Ezgi Aladağlı, *Stochastic Delay Differential Equations*, Master's thesis in Financial Mathematics, Advisor: Yeliz Yolcu Okur, Co-advisor: Ceren Vardar Acar.

5 Colloquia & Seminars

- *A Parametric Simplex Algorithm for Linear Vector Optimization Problems*, Firdevs Ulus, Department of Industrial Engineering, Bilkent University, 03.01.2017.
- *Enumeration of Irreducible Polynomials with Prescribed Coefficients*, Emrah Sercan Yılmaz, College Dublin University, 10.01.2017.
- *Optimization for Big-Data Analytics: Multi-Group Data Classification with Mathematical programming*, Metin Türkay, Department of Industrial Engineering, Koç University, METU SIAM Student Chapter Seminar Series, 04.01.2017.