



PhD Conference of the Doctoral School for Mathematics and Computer Science

Faculty of Natural Sciences

Budapest University of Technology and Economics,

The conference is organized in the framework of *TÁMOP-4.2.2/B-10/1-2010-0009*

Wednesday - Friday, 8-10 May, 2013

PROGRAM

Wednesday, 8th May

Room: 604, building T

Chairman: Dr. Károly Simon

- 13:00 Opening (András Recski, Head of the Doctoral School)
- 13:01 All Pairs Small Stretch Paths in Weighted Graphs (Balázs Csizmadia, Dept. Computer Science and Information Theory)
- 13:30 Bounds on the Number of Edges in Hypertrees (Péter Szabó, Dept. Computer Science and Information Theory)
- 14:00 On the sum of graphic matroids (Csongor Csehi, Dept. Computer Science and Information Theory)
- 14:30 Strategic interaction games with linear--quadratic payoff (Ahmed Elbanna, Department of Stochastics)
- 15:00 Projections of Mandelbrot percolation in higher dimensions and Evolutionary Apollonian Networks (Lajos Vágó, Department of Stochastics)
- 15:30 Complementary decompositions of Matrix Algebras (András Szántó, Department of Analysis)
- 16:00 Tightness results for general double branching annihilating random walkers (Attila László Nagy, Department of Stochastics)
- 16:30 Sidon Basis (Eszter Rozgonyi, Department of Stochastics)
- 17:00 Distances in random Apollonian networks (István Kolossváry, Department of Stochastics)

Thursday, 9th May

Room: 604, building T

Chairman: Dr. Balázs Csikós

- 9:30 Qualitative Dynamics in Hybrid Systems with Hysteresis (Rudolf Csikja, Department. of Analysis)
- 10:00 On the splitting problem of orbifolds via D-symbols (Lajos Boróczki, Department of Geometry)
- 10:30 Densest geodesic ball packings to $S^2 \times \mathbb{R}$ space groups generated by rotations (Benedek Schultz, Department of Geometry)
- 11:00 Isoptic curves of generalized conic sections in hyperbolic geometry, isoptics in the Euclidean space (Géza Csima, Department of Geometry)

Friday, 10th May

Room: 607, building H

Chairmen: Dr. Lajos Rónyai and Dr. Tamás Szántai

- 12:00 The ordinary depth of subgroups of $Sz(q)$ (Franciska Petényi, Department of Algebra)
- 12:30 Singular Behaviour in Light of the Castelnuovo--Mumford Regularity (Norbert Pintye, Department of Algebra)
- 13:00 Bilinear programming models (Attila Egri, Department of Differential Equations)
- 13:30 Finding Equilibrium Solution of Exchange Models With the Results of the Geometric Programming (Gábor Lovics, Department of Differential Equations)
- 14:00 The locomotive assignment problem in freight transportation (Zsuzsanna Barta, Department of Differential Equations)
- 14:30 On strongly polynomial variants of the MBU simplex algorithm for a maximum flow problem with nonzero lower bounds (Richárd Molnár-Szipai, Department of Differential Equations)
- 15:00 A különböző tevékenység végrehajtási időeloszlások hatása a project végrehajtási idő eloszlására PERT-modelben (Sándor Guzmics, Department of Differential Equations)
- 15:30 Temporal linked search over Wikipedia (Julianna Göbölös-Szabó, Department of Algebra)
- 16:00 Temporal influence over the Last.fm social network (Róbert Pálovics, Department of Algebra)