

Programme

Thursday, May 22

PLENARY SESSION (Aula Magna)

Chairman: Andrei Mărcuş

10:30 – 10:45	OPENING CEREMONY
10:45 – 11:30	András Benczúr: <i>Kolmogorov Entropy and the Digital Universe</i>
11:30 – 12:15	Horia F. Pop: <i>Fuzzy Data Analysis. Case Studies</i>
13:00 – 15:00	COCTAIL PARTY

SECTION A – Mathematics (Room 7/I)

Chairman: Antal Járai

15:00 – 15:20	László Tóth: <i>Counting solutions of quadratic congruences in several variables revisited</i>
15:20 – 15:40	Péter Burcsi, Gábor Gévay: <i>On consecutive numbers divisible by powers of their largest prime factors</i>
15:40 – 16:00	A. B. Németh, S. Z. Németh: <i>Lattice-like subsets of Euclidean Jordan algebras</i>
16:00 – 16:20	Dorin Andrica, Oana Liliana Chender: <i>Rodrigues formula for the Cayley transform of the groups $SO(n)$ and $SE(n)$</i>

SECTION B – Computer Science (Room 5/I)

Chairman: Zoltán Horváth

15:00 – 15:20	András Németh, Melinda Tóth: <i>Modeling Dynamic Type Systems in Statically Typed Languages</i>
15:20 – 15:40	István Bozó, Melinda Tóth, Zoltán Horváth: <i>Reduction of Regression Tests for Erlang Based on Impact Analysis</i>
15:40 – 16:00	Viktória Fördős, Melinda Tóth: <i>Utilising the software metrics of RefactorErl to identify code clones in Erlang</i>
16:00 – 16:20	Corina Blajovici, Zsolt Jankó, Dmitry Chetverikov: <i>Study on Foreground Segmentation Methods for a 4D Studio</i>

SECTION C – Computer Science (Room 9/I)

Chairman: Lehel Csató

15:00 – 15:20	Martin Varga, Branislav Sobota, Frantisek Hrozek, Stefan Korecko: <i>Augmented Reality with interactive interfaces</i>
15:20 – 15:40	Attila Balaton, Zoltán Vincellér, Lajos Györfly: <i>Group testing algorithms for inaccurate sensor detection: theoretical results and simulations</i>
15:40 – 16:00	Tiberiu BAN: <i>Mining Mistakes from Evaluation Tests Data - From Software Platform to Mathematical Model</i>
16:00 – 16:20	Katalin Tünde Jánosi-Rancz: <i>Finding, Managing and Enforcing CFDs and ARs via a Semi-Automatic Learning Strategy</i>

16:20 – 16:40	COFFEE BREAK
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SECTION A – Mathematics (Room 7/I)

Chairman: Margit Pap

16:40 – 17:00	Andrei Lorian, Alb Lupaş Alina : <i>Strong differential superordination results using a generalized Sălăgean operator and Ruscheweyh operator</i>
17:00 – 17:20	Mira-Cristiana Anisiu, Valeriu Anisiu: <i>Bilateral Inequalities for Harmonic, Geometric and Hölder Means</i>
17:20 – 17:40	Teodora Chirilă: <i>Extension operators that preserve certain geometric and analytic properties</i>
17:40 – 18:00	Francesca Faraci, Csaba Farkas: <i>A quasilinear elliptic problem involving critical Sobolev exponents</i>

SECTION B – Computer Science (Room 5/I)

Chairman: Horia F. Pop

16:40 – 17:00	Noémi Gaskó, Rodica Ioana Lung, Mihai Suci, D. Dumitrescu: <i>First Price and Second Price Auction Games. Equilibria detection.</i>
17:00 – 17:20	Péter Burcsi, Gábor Nagy: <i>Endgame Strategies and Simulation Results for the Liar's Dice game</i>
17:20 – 17:40	Lajos Györfly, Attila Balaton, András Csernenszky: <i>Direct marketing optimization using client relational graphs</i>
17:40 – 18:00	Zoltán Ács, Zoltán Vincellér, Árpád Nyilas: <i>Feedback for estimated Ordination Destination Matrix by expert and simulation.</i>

SECTION C – Computer Science (Room 9/I)

Chairman: Noémi Gaskó

16:40 – 17:00	Imre Piller: <i>A Simple Process Abstraction and Communication Pattern</i>
17:00 – 17:20	Csaba Szabó, Veronika Szabóová: <i>On Representation and Usage of Requirements in Self-* Systems</i>
17:20 – 17:40	Carolina Opinca: <i>Performance metrics to characterize parallel programs</i>
17:40 – 18:00	Dénes Bartha, Péter Burcsi: <i>Reconstructibility of free trees from subtree size frequencies</i>

18:30 –	CULTURAL EVENT: RUGGERO LEONCAVALLO: <i>Pagliacci</i> (HUNGARIAN OPERA)
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Friday, May 23

PLENARY SESSION (Room 5/I)

Chairman: András Benczúr

9:00 – 9:45	Adrian Petruşel: <i>Fixed points and multivalued fractals for generalized contractions</i>
9:45 – 10:30	Antal Járai: <i>Results and problems in the regularity theory of functional equations</i>
10:30 – 11:00	COFFEE BREAK

SECTION A – Mathematics (Room 7/I)

Chairman: Zsolt Páles

11:00 – 11:20	László Mérai: <i>Pseudorandomness of binary threshold sequences derived from multiplicative inverse</i>
11:20 – 11:40	János Ruff, István Kovács: <i>On a conjecture of Kiermaier and Kurz</i>
11:40 – 12:00	Norbert Tihanyi, Attila Kovács, Ádám Szűcs: <i>Distributed computing of n-dimensional simultaneous Diophantine approximation problems</i>
12:00 – 12:20	Gábor Farkas, Gábor E. Gévay, Antal Járai, Emil Vatai: <i>Report on the Cunningham chain search project</i>
12:20 – 12:40	Margit Pap: <i>Construction of analytic wavelets</i>
12:40 – 13:00	Kristóf Szarvas, Ferenc Weisz: <i>Almost everywhere and norm convergence of the inverse continuous wavelet transform in variable Lebesgue spaces</i>

SECTION B – Mathematics (Room 5/I)

Chairman: Brigitte Breckner

11:00 – 11:20	Dorin Andrica, Adela Lupescu, Cornel Pintea: <i>Circular mappings with minimal critical set</i>
11:20 – 11:40	Andrei Viorel Neag: <i>Properties of the Lemoine point in Hyperbolic geometry</i>
11:40 – 12:00	Csaba Müller, Lajos Gergó: <i>Comparison of Riemann solvers in fluid dynamics by weighted error number</i>
12:00 – 12:20	Zsolt Darvay: <i>A New Short-Update Interior-Point Algorithm for Monotone Linear Complementarity Problems</i>
12:20 – 12:40	Péter Kovács: <i>On the application of rational function systems</i>
12:40 – 13:00	Pál Aurel Kupán, Róbert Szász: <i>About a result due to Professor P.T. Mocanu</i>
13:00 – 13:20	Marian Mureşan: <i>On the optimal guidance for planar Lunar ascent</i>

SECTION C – Computer Science (Room 9/I)

Chairman: Margit Antal

11:00 – 11:20	Delia Tuşe: <i>An interval fuzzy multicriteria decision making method based on the expected value</i>
11:20 – 11:40	Kristóf Szabados: <i>Creating an efficient and incremental IDE for TTCN-3</i>
11:40 – 12:00	Gergely Nagy, Zoltán Porkoláb: <i>The effects of using exception handling on software complexity</i>
12:00 – 12:20	Kádek Tamás, Pánovics János: <i>Some Improvements of the [1.47mm]Extended Breadth-First Search Algorithm</i>
12:20 – 12:40	S. Pirzada, H. A. Ganie, A. Iványi: <i>Maximum degree minimum covering graphs</i>

12:40 – 13:00	Miklós Bartha, Amitesh S. Shuva: <i>Reconstructing graphs from a deck of all distinct cards</i>
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13:00 – 15:00	LUNCH, PIRAMIDA RESTAURANT
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SECTION A – Mathematics (Room 7/I)

Chairman: László Mérai

15:00 – 15:20	Mihály Bessenyei, Zsolt Páles: <i>A contraction principle in generalized metric spaces</i>
15:20 – 15:40	Brigitte E. Breckner, Csaba Varga: <i>Nonlinear elliptic problems on the Sierpinski gasket</i>
15:40 – 16:00	Angela Budescu: <i>Operator equations and systems with potential-type nonlinearities</i>
16:00 – 16:20	Coroian Iulia: <i>On some generalizations of Nadler’s contraction principle</i>
16:20 – 16:40	Diana-Raluca Herlea: <i>Positive solutions to first order differential systems with nonlocal conditions</i>

SECTION B – Computer Science (Room 5/I)

Chairman: Réka Nagy

15:00 – 15:20	Margit Antal, László Zsolt Szabó, Zsolt Bokor: <i>Identity information revealed from mobile touch gestures</i>
15:20 – 15:40	Attila Góbi, Tamás Kozsik, Barnabás Králik: <i>Embedded resource tool in Haskell</i>
15:40 – 16:00	Áron Baráth, Zoltán Porkoláb: <i>Towards More Safe Programming Language Constructs</i>
16:00 – 16:20	Gábor Oláh, Dániel Horpácsi, Melinda Tóth: <i>Type inference for Core Erlang support</i>
16:20 – 16:40	Gelu I. Vac: <i>A Proposal to Building the Adaptive Reference System: A Challenge for Managers</i>

SECTION C – Computer Science (Room 9/I)

Chairman: Judit Robu

15:00 – 15:20	Antal Iványi, János Elek: <i>Score sets of graphs</i>
15:20 – 15:40	Corina Blajovici: <i>An Evolutionary Approach for Generating 2D and 3D Fractal Art</i>
15:40 – 16:00	Kinga Fogarasi, Benedek Nagy: <i>A nondeterministic parser for $Perm_2$ grammars</i>
16:00 – 16:20	László Barabás, Tamás Polacsek: <i>From outsourcing based business and software engineering</i>
16:20 – 16:40	Károly Simon, Tamás Török-Vistai : <i>The Enterprise Software Development Process: Methods, Tools, Patterns and Quality Assurance</i>

16:40 – 17:00	COFFEE BREAK
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SECTION A – Mathematics (Room 7/I)

Chairman: László Tóth

17:00 – 17:20	Szilvia Huszárszky, Lajos Gergó: <i>Enclosing the solution set of overdetermined systems of interval linear equations</i>
17:20 – 17:40	Maria Anca Oprea: <i>Coincidence point theorems for rational contractions</i>
17:40 – 18:00	Cornel Pinteá: <i>Monotone operators and some of their applications</i>
18:00 – 18:20	Marcel-Adrian Şerban: <i>Stability of multi-step fixed point iterative methods</i>
18:20 – 18:40	László Simon: <i>On systems of semilinear hyperbolic functional equations</i>
18:40 – 19:00	Alexandru Tamasan: <i>Range Characterization of the attenuated Radon transform of compactly supported tensor fields in the plane</i>

SECTION B – Computer Science (Room 5/I)

Chairman: Attila Kovács

17:00 – 17:20	Diana C. Zoicaş: <i>Usage of development guidelines for optimizing the energy consumption of mobile applications</i>
17:20 – 17:40	Gábor Fábián, Lajos Gergó: <i>Fast algorithm to split and reconstruct triangular meshes for real time applications</i>
17:40 – 18:00	Tamás Cséri, Zoltán Porkoláb: <i>Evaluating Comment-to-AST Assignment Heuristics for C++ Programs</i>
18:00 – 18:20	Gábor Márton, Zoltán Porkoláb: <i>C++ Compile-time Reflection and Mock Objects</i>
18:20 – 18:40	Máté Cserép, Dániel Krupp: <i>Visualization Techniques of Components for Large Legacy C/C++ software</i>
18:40 – 19:00	Călin Eugen Nicolae Gal-Chiş: <i>Using Concern Spaces to Measure Requirements Similarities</i>

SECTION C – Computer Science (Room 9/I)

Chairman: Bazil Pârv

17:00 – 17:20	Annamária Szenkovits: <i>Model-based Testing for Reactive Systems. Intelligent Approaches</i>
17:20 – 17:40	Coroiu Adriana: <i>Intelligent models of psychological inspiration. Doctoral research project</i>
17:40 – 18:00	Tibor Kiss, Florin Craciun, Bazil Parv: <i>Translating Event-B models into Elisa - A Case Study in Railway Automation</i>
18:00 – 18:20	Rill Róbert-Adrian, Anna Soós: <i>Study of Voronoi diagrams with means of stochastics</i>
18:20 – 18:40	Ioan Gabriel Mircea: <i>Applied machine learning</i>
18:40 – 19:00	Adela-Maria Sirbu: <i>Dynamic machine learning algorithms for solving classification problems</i>

Saturday, May 24

TRIP

8:00 – 20:00	Turda (Torda), Alba Iulia (Gyulafehérvár), Aiud (Nagyenyed)
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