

The 15th International Conference on Mathematics and its Applications ICMA 2018
November 1-3, 2018, Timișoara

CONFERENCE PROGRAM

The registration and all the program activities and sessions listed below will take place (unless otherwise noted) at the Politehnica University of Timisoara's Central Library located on the Vasile Pârvan Boulevard No. 2B.

Thursday - 01.11.2018

10.00 – 16.00 Registration I - Department of Mathematics, 2nd floor of the Rectorate building of the “Politehnica” University, Victoria Sq. No.2

Friday - 02.11.2018

08.00 - 09.30 Registration II - ICMA2018 Office, Central Library Hallway

09:30 - 10:00 Opening ceremony, K1 Hall

10:00 - 10:15 Coffee break

10:15 - 11:00 Keynote lecture, K1 Hall – Prof. Mohsen RAZZAGHI, A numerical scheme for the solution of variational problems

11:00 - 11:15 Coffee break

11:15 - 13:00 Session 1A - Mathematical Analysis and Applications, K1 Hall, Session Chair: Omer Gök

1. Omer Gök - On the center of space of regular b-semicompact operators
2. Călin Constantin Șerban, Petru Jebelean - Multiple periodic solutions for differential and difference equations with relativistic operator
3. Georgeta Maniu - On a three step iteration process for Suzuki mappings
4. Pál Burai – Extension theorem for conditionally additive functions
5. Patricia Szokol – On certain classes of Schur-convex functions
6. Marius Valentin Boldea - Some Cebisev type norm inequalities for power series in Banach algebras

11:15 - 13:00 Session 1B - Mathematical Analysis and Applications, K2 Hall, Session Chair: Kwami Nutefe Agbeko

1. Kwami Nutefe Agbeko – When can an infinite σ -algebra be equinumerous with a power set?
2. Anna Soós, Ildikó Somogyi - The study of Hermite type local fractal functions
3. Flavius Pater, Tudor Binzar, Sorin Nadaban - On some properties of bounded sets in fuzzy normed linear spaces
4. Flavius Pater, Adina Juratoni, Olivia Bundau - On some cosine type functional equations in a locally multiplicatively convex algebra
5. Ioan-Lucian Popa, Traian Ceausu, Larisa Elena Biris - Generalized stability for difference equations in Banach spaces
6. Claudia Luminita Mihit -Notions of splitting type for skew-evolution semiflows in Banach spaces

11:15 - 13:00 Session 1C - Applied Mathematics in Engineering and Economics, Probability and Statistics, Applications in Health and Clinical Research, K4 Hall, Session Chair: Mohsen Razzaghi

1. Takeshi Matsuda – Topological invariant and toric ideal in plane graph
2. Romeo Negrea – On a class of stochastic delay differential equations and applications
3. Katarina Pavlović, Mališa Žižović, Nada Damljanović - Weighted coefficients in multi-criteria decision making methods
4. Madalina Pasca, Marioara Lapadat - Least squares differential quadrature method for optimal control problems
5. Liviu Mihon – Advanced mathematical analysis on a vehicle suspension
6. Ioana Iosif - Some properties of cortical bones

13:00 - 15:00 Lunch

15:00 - 15:45 Keynote lecture, K1 Hall – Prof. Dorin ANDRICA, The Cauchy integral formula with applications to polynomials, partitions and integer sequences

15:45 - 16:30 Keynote lecture, K1 Hall – Prof. Eduard-Marius CRĂCIUN, Study of crack propagation in human bone regarded as a pre-stressed orthotropic composite material

16:30 - 16:45 Coffee break

16:45 - 18:30 Session 1A - Mathematical Analysis and Applications, K1 Hall, Session Chair: Gabriela Cristescu

1. Roxana Maria Matei - Dichotomy properties for dynamical systems: a pointwise approach
2. Loredana Ciurdariu - Inequalities for some type of convexity.
3. Violeta Crai (Terlea), Mihail Megan - (h, k, μ, ν) -trichotomy of discrete linear systems and sequences of norms
4. Nicolae Lupa, Liviu Horia Popescu – Nonuniform exponential stability for evolution equations in infinite-dimensional spaces
5. Rovana Boruga, Mihail Megan – Polynomial dichotomic behaviors for evolution operators in Banach spaces
6. Gabriela Cristescu - New Grüss type inequalities in various types of fractional integration

16:45 - 18:30 Session 1B - Algebra and Geometry, Computer Algebra Systems in Research, K2 Hall, Session Chair: Dorin Andrica

1. Sorin Lugojan - Remark over direct limit of matrix-rings
2. Dávid Csaba Kertész – A generalization and short proof of a theorem of Hano on affine vector fields
3. Martin Bauer, Martins Bruveris, Cismas Emanuel, Boris Kolev – Well-posedness of the EPDiff equation with a pseudo-differential inertia operator
4. Cristian Lazureanu, Cristiana Caplescu - On a deformed version of the system T
5. Cristian Lazureanu, Camelia Petrisor - The energy and Casimir level sets, the image of the energy-Casimir mapping and dynamic properties of a three-dimensional Hamilton-Poisson system
6. Gheorghe Tigan - Degenerate Hopf-Hopf bifurcations
7. Camelia Pop, Ioana Iosif - Stability Problems on the Lie Group $ISO(3,1)$

16:45 - 18:30 Session 1C - Applied Mathematics in Engineering and Economics, Probability and Statistics, Applications in Health and Clinical Research, K4 Hall, Session Chair: Eduard-Marius Craciun

1. Serban Vlad - On the attractors of the Boolean asynchronous systems
2. Nevena Marić – CUT polytope via Bernoulli correlations.
3. Bogdan Caruntu, Constantin Bota, Madalina Pasca – Approximate solutions for the magnetohydrodynamic flow of non-Newtonian nanofluid in a coaxial porous cylinder using the Least Squares Differential Quadrature Method
4. Katarina Kukić, Jelena Stanojević - Economic discrete chaotic dynamical models based on generalized logistic equation
5. Elena Vasilache - Some concepts of fractional differential calculus using Matlab
6. Camelia Petrisor, Remus-Daniel Ene -Nonlinear stability, exact and analytic approximate solutions for the equation on MHD flow of a power-law viscous fluid

19:00 - 23:00 Dinner Banquet - Fusion Restaurant, Maria Theresia Bastion, Hector Street.