

Thursday, August 31

18:00-20:00 Welcome cocktail and on-site registration, room 70

- On-site registration
- Welcome cocktail: wines, juices, cheeses and kajmak, bread, grapes, bakery products.
- Musical program: Ivan Marjanović, vibraphone

Friday, September 1

8:00 – 9:30 On-site registration (continuation)

9:30-10:00 Opening

- Milan Merkle, coordinator
- Branko Kovačević, Dean
- Themistocles Rassias
- Tibor Sabo (Assistant Minister of Science)
- Iva Mrvoš, solo: Gaudeamus Igitur

10:00-10:30 Transfer to Mechanical Engineering

10:30-11:00 Coffee break

Room A: Mathematical Analysis (chair: Hari Srivastava)

11:00 – 11:45 Themistocles M. Rassias, Dep. of Math., Nation. Tech. Univ. of Athens, Greece
On the Mazur-Ulam theorem and the Aleksandrov problem for isometric mappings

11:45 – 12:30 A.M. Fink, Mathematics Department, Iowa State University, USA
What really is Hadamard's inequality

12:30 – 12:45 Break

12:45 – 13:30 Gradimir Milovanović, Faculty of Electronic Engineering, University of Niš, Serbia
Formal orthogonal polynomials with respect to a moment functional and applications

Room B: Graph Theory (chair: Domingos Moreira Cardoso)

11:00 – 11:45 Peter Rowlinson, Department of Computing Science and Mathematics,
University of Stirling, Scotland
Star complements and extremal graphs

11:45 – 12:30 Zsolt Tuza, Computer and Automation Research Institute,
Hungarian Academy of Sciences, Hungary
Colorings of hypergraphs with local conditions

13:30-14:30 Lunch (in the restaurant on the same floor)

Room A: Topics in Analysis (chair: K. Trenčevski)

14:30 – 14:50 G.S. Srivastava, *Spaces of entire functions of two complex variables*

14:50 – 15:10 Kostadin Trenčevski, *On the conjecture concerning the complex manifolds with odd complex dimension*

15:10 – 15:30 Monica Moulin Ribeiro Merkle, *A free boundary problem between two parallel planes*

15:30 – 15:50 Break

15:50 – 16:10 Slobodanka Janković, *The property of good decomposition for slowly varying functions*

Room B: Tournaments (chair: Zsolt Tuza)

14:50 – 15:10 Masaya Takahashi, Takahiro Watanabe, Takeshi Yoshimura, *A consideration of the score sequence pair problems of (r_{11}, r_{12}, r_{22}) -tournaments*

15:10 – 15:30 Jea-Hyun Park, Soon-Yeong Chung, *The chip-firing game and the Dirichlet game on weighted graphs*

15:30 – 15:50 Hiroaki Mohri, *Fixed charged network flow problem and its cooperative game*

15:50 – 16:10 Ljiljana Branković, Yuqing Lin, *Graceful labeling of trees with maximum degree 3*

Room C: Topics in Analysis (chair: Zagorka Lozanov-Crvenković)

14:30 – 14:50 Dennis Nemzer, *Poisson's summation formula for boehmians*

16:40 – 17:00 Dušanka Perišić, Zagorka Lozanov-Crvenković, *Hermite expansion of ultradistribution*

16:10-16:40 Coffee break

Room A: Topics in Analysis (chair: Pietro Cerone)

16:40 – 17:00 Milan Jovanović, Đura Paunić, *Convex functions – some historical notes*

17:00 – 17:20 Dragan Doder, *On the set of inequalities*

17:20 – 17:40 Branko Malešević, Ratko Obradović, *A method of proving a class of inequalities via Pade approximations*

17:40 – 18:00 Ćemal Dolićanin, Milisav Stefanović, Sead Rešić, *On pseudoscalar product of unisotropic vectors*

Room B: Topics in Graph Theory (chair: Carlos de Fonesca)

16:40 – 17:00 Vadim E. Levit, Eugen Mandrescu, *Partial unimodality for independence polynomials of some compound graphs*

17:00 – 17:20 Mehdi Alaeiyan, Mohsen Ghasemi, *Normal Cayley digraphs with valency 2 on groups*

17:20 – 17:40 Joel Ratsaby, *Density of smooth boolean function*

Room C: Topics in Analysis (chair: Zagorka Lozanov-Crvenković)

16:40 – 17:00 Dušanka Perišić, Zagorka Lozanov-Crvenković, *Hermite expansion of ultradistribution*

19:00 Reception in the City Hall

- Handshaking in the entrance
- Short introduction by Milan Merkle
- Greetings on behalf of the City government by Vesna Raca
- Cocktail

Saturday, September 2

Room A: Mathematical Analysis (chair: Gradimir Milovanović)

9:00 – 9:45 Ingram Olkin, School of Education, Stanford University, USA
Inequalities: some probabilistic, some matrix, and some both

9:45 – 10:30 Hari M. Srivastava, Department of Mathematics and Statistics,
University of Victoria, Canada
Some Fox-Wright generalized hypergeometric functions and associated families of convolution operators

Room B: Graph Theory (chair: Slobodan Simić)

9:00 – 9:45 Domingos Moreira Cardoso, Universidade de Aveiro,
Departamento de Matematica, Aveiro – Portugal
The class of graphs with convex-qp stability number

9:45 – 10:30 Tomaž Pisanski, IMFM, University of Ljubljana and University of Primorska,
Slovenia
Morse matchnigs of colored graphs

10:30-11:00 Coffee break

Room A: Mathematical Analysis (chair: T. Rassias)

11:00 – 11:45 Pietro Cerone, School of Computer Science and Mathematics,
Faculty of Health, Engineering and Science, Victoria, Australia
Special Functions: Their approximation and bounds

11:45 –12:30 Sever Dragomir, Faculty of Engeneering and Sciences,
Victoria University of Technology, Australia
New inequalities of the Kantorovich type for bounded linear operators in Hilbert spaces

Room B: Graph Theory (chair: Slobodan Simić)

11:00 – 11:45 Dragoš Cvetković, Faculty of Electrical Engineering, University of Belgrade, Serbia
Some properties of signless Laplacian eigenvalues of graphs

12:30-14:30 Lunch

Room A: Fixed point theory (chair: Ljiljana Gajić)

14:30 – 14:50 Siniša Ješić, Milan Tasković, Nataša Babačev, *Transversal spaces and fixed point theorems*

14:50 – 15:10 Ljiljana Gajić, *On fixed point in D-metric spaces*

15:10 – 15:30 Ivan D. Arandelović, *Note on asymptotic contractions*

15:30 – 15:50 Siniša Ješić, Rale Nikolić, *Common fixed point theorems for R-weakly commuting mappings defined on fuzzy metric spaces*

Room B: Spectra of Graphs (chair: Kristina Vušković)

14:30 – 14:50 Francesco Belardo, Enzo Maria Li Marzi, Slobodan K. Simić, *Ordering graphs with the index in the interval $(2;p_2 + p_5)$*

14:50 – 15:10 Francis K. Bell, Dragoš Cvetković, Peter Rowlinson, Slobodan K. Simić, *Graphs for which the least eigenvalue is minimal*

15:10 – 15:30 Mirko Lepović, *Some results on conjugate integral graphs*

15:30 – 15:50 Carlos M. da Fonseca, *Location of eigenvalues of acyclic matrices*

15:50 – 16:10 Miroslav Petrović, Bojana Borovičanin, *On the graphs with maximal index*

Room C: Special Functions and Numerical Analysis (chair: Ljiljana Petković)

14:30 – 14:50 Nenad Cakić, *An unified explicit formula for Stirling numbers*

14:50 – 15:10 Tibor K. Pogany, Živorad Tomovski, *On Mathieu-type series which terms contain generalized hypergeometric function qFp and Meijer's G-function*

15:10 – 15:30 Purshottam Narain Agrawal, Asha Ram Gairola, *On Miccelli combination of modified Bernstein polynomials*

15:30 – 15:50 Aleksandra Erić, *Polynomial interpolation problem for skew polynomials*

15:50 – 16:10 Ljiljana D. Petković, Miodrag S. Petković, *On the Newton-like method for the inclusion of polynomial zeros*

16:10-16:40 Coffee Break

Room A: Topics in Analysis (chair: Ljiljana Gajić)

17:00 – 17:20 Pratulananda Das, B.K. Lahiri, *I and I^* - convergence in topological spaces*

Room B: Topics in Graph Theory (chair: Tomaž Pisanski)

16:40 – 17:00 Zoran Radosavljević, *On unicyclic reflexive graphs*

17:00 – 17:20 Marija Rašajski, *On a class of maximal reflexive θ graphs generated by Smith graphs*

17:20 – 17:40 Kristina Vušković, F. Maffray, N. Trotignon, *A combinatorial algorithm for maximum weighted clique for a subclass of perfect graphs*

17:40 – 18:00 Silvana Petruševa, *Solving a shortest path problem in an environment which has Eulerian graph representation with a fractal structure, with an emotional agent*

18:00 – 18:20 Dejan Tošić, Slobodan K. Simić, Milka Potrebić, *Analysis of electric circuits with Mathematica*

Room C: Numerical Analysis (chair: Nenad Cakić)

16:40 – 17:00 Germain E. Randriambeloso, *Approximate solution of beam differential equation*

20:00 Conference concert in Frescoes gallery: Pavle Aksentijević and the group *Zapis*; fashion show by Verica Planić

Sunday, September 3

Room A: Mathematical Analysis (chair: Milan Merkle)

9:00 – 9:45 Soon-Yeong Chung, Department of Mathematics, Sogang University, Korea
Inverse conductivity problems in the electrical networks

9:45 – 10:30 Stevan Pilipović, Faculty of Sciences and Mathematics,
University of Novi Sad, Serbia
Algebra of generalized functions, generalized hyperfunctions and algebra of megafunctions

Room B: Graph theory (chair: Peter Rowlinson)

9:45 – 10:30 Nataša Pržulj, Department of Computer Science,
University of California, Irvine, USA
Protein-Protein interaction networks: Issues, models, and comparisons

10:30-11:00 Break

11:00-11:15 Room B: Graph Theory (chair: Milan Merkle)

Zoran Obradović, Information Science and Technology Center, Temple University, USA

Using gene ontology graphs for biomarker selection from integrated microarray, proteomics and clinical data (joint work with Hongbox Hie and Slobodan Vučetić)

11:15 – 13:00 Room B (chair: Milan Merkle)

Publications – Past and Present

Discussion:

- Dragoš Cvetković
- Slaviša Prešić
- Dobrilo Tošić
- Hari Srivastava
- A. M. Fink
- Ingram Olkin
- Themistocles Rassias
- Peter Rowlinson
- Dragoš Cvetković
- Zsolt Tuza
- Sever Dragomir
- Slobodan Simić

15:00 -17:00 Walking tour: sightseeing Belgrade

20:00 Conference dinner, restaurant *Ima dana*

Monday, September 4

Room A: Mathematical Analysis (chair: Gradimir Milovanović)

9:00 – 9:45 Aleksandar Ivić, Faculty of Mining and Geology, University of Belgrade, Serbia

The Rankin - Selberg problem

9:45 – 10:30 Wayne Hayes, School of Information and Computer Science, Uni. of California, USA

Outer solar system on the edge of chaos

Room B: Mathematical Analysis (chair: Milan Merkle)

9:00 – 9:45 L. M. Berkovich, Samara State University, Russia
Method of a factorization of ordinary differential operators and its applications

9:45 – 10:30 Peter Leach, University of KwaZulu-Natal, Durban, South Africa
Nonlocal symmetries: past, present and future

10:30-11:00 Coffee break

Room A: Ordinary differential equations (chair: Lev M. Berkovich)

11:00 – 11:20 Dragan Dimitrovski, Vladimir Rajović, Aleksandar Dimitrovski, *In memory of Professor Mitrinović: On the need for and importance of a thematic monograph exclusively on periodical solutions of differential equations*

11:20 – 11:40 Dragan Dimitrovski, Vladimir Rajović, Aleksandar Dimitrovski, *Global aspect of non-homogenous differential equation of the second order*

11:40 – 12:00 Miloje Rajović, Rade Stojiljković, *On types, form and supremum of solutions of ordinary homogenous linear differential equations of the second order*

12:00 – 12:20 Boro M. Piperevski, *On a correlation between the nature of a solution of a class of differential equation of n -th order and the solutions of its adequate characteristic algebraic equation of n -th degree*

12:20 – 12:40 Stana Cvejić, Milena Lekić, *Sturm's theorems through iterations*

Room B: Computer Science (chair: Tatjana Lutovac)

11:00 – 11:20 Žarko Mijajlović, Miloš Milošević, Aleksandar Perović, *Some properties of posynomial rings*

11:20 – 11:40 Milica Anđelić, *On the matrix equation $XA + AX = \tau(X)$*

11:40 – 12:00 Dejan Živković, *Non-polynomial lower bound for monotone depth-3 circuits computing an $nc-1$ -complete function*

12:00 – 12:20 Nenad Krdžavac, *Implementation tableau algorithm for a description logic using a model transformation*

12:20 – 12:40 Miodrag Rašković, Zoran Marković, Zoran Ognjanović, *A logic with imprecise conditional probabilities*

12:40 – 14:30 Lunch

Room A: Differential equations (chair: Soon-Yeong Chung)

14:50 – 15:10 Biljana Jolevska-Tuneska, *On a differential equation with nonstandard coefficients*

15:10 – 15:30 Jong-Ho Kim, Soon-Yeong Chung, *(p,w)-harmonic functions and inverse problems on nonlinear network*

15:30 – 15:50 Yun-Sung Chung, Soon-Yeong Chung, *Boundary value problems for diffusion and elastic operators on networks*

15:50 – 16:10 Diana Dolićanin, Valery G. Romanovski, Tatjana Mirković, *Linearizability conditions of a polynomial system of degree five*

Room B: Stochastic (chair: Slobodanka Janković)

14:30 – 14:50 Takashi Matsuhisa, *Bayesian communication leading to Nash equilibrium*

14:50 – 15:10 Tzue-Shuh Chiang, Yunshyong Chow, *Optimal ventcel graphs, minimal cost spanning trees and asymptotic probabilities*

15:10 – 15:30 Đorđe V. Vukomanović, *Probability on a universe of discourse*

15:30 – 15:50 Miroslav M. Ristić, Biljana C. Popović, Aleksandar Nastić, Miodrag Đorđević, *A bivariate Marshall and Olkin exponential minification process*

15:50 – 16:10 Slobodanka S. Mitrović, *Stochastic modeling of the growth process*

Room C: Various Topics (chair: Monica M. Ribeiro Merkle)

14:30 – 14:50 Maximiliano Pinto Damas, Lilian Markenzon, Nair Maria Maia de Abreu, *The concept of tuner set for graphs*

14:50 – 15:10 Nebojša Nikolić, Rade Lazović, *The size of some antichains for multisets*

15:10 – 15:30 Mirjana Stojanović, R. Gorenflo, *Diffusion-wave problem*

15:30 – 15:50 Tatjana Lutovac, James Harland, *An algebraic approach to redundancy analysis of sequent proofs*

15:50 – 16:10 Nikola Tuneski, *Starlikeness and convexity of a class of analytic functions*

16:10-16:40 Coffee Break

Room A: Differential equations (chair: Soon-Yeong Chung)

16:40 – 17:00 Young-Su Lee, Soon-Yeong Chung, *Stability for cubic functional equation in the spaces of generalized functions*

17:00 – 17:20 A. Carmona, E. Bendito, A.M. Encinas, J.M. Gesto, *Potential theory for BVP's in finite networks*

Room C: Various Topics (chair: Monica M. Ribeiro Merkle)

16:40 – 17:00 Olivera Djordjević, *On a Littlewood-Paley type inequality*

17:00 – 17:20 Miomir Stanković, Predrag M. Rajković, Slađana D. Marinković, *On the fractional integrals and derivatives in quantum calculus*

17:20 – 17:40 Vladimir Baltić, *On the number of certain types of restricted permutatuions*

17:40 Closing ceremony in the restaurant on the same floor

Milan Merkle
Ingram Olkin

Thursday, September 5

Excursion to mountain Fruška Gora, town Sremski Karlovci, monastery Krušedol, with lunch in Salaš 84.