

**13th Serbian Mathematical Congress**  
**Vrnjačka banja, May 22–25, 2014**

## **Conference Schedule**

**Field 3: Real and Functional Analysis, Differential Equations, Complex Analysis,  
Probability and Statistics**

**May 22, 2014**

15:00–17:00 **Plenary lectures**

17:00–17:30 Coffee break

17:00–19:30

**Field 3a** – Chairman: Arpad Takači

17.30-17.50

Julka Knezevic-Miljanovic

*Some asymptotic properties of second order differential equation*

17.50-18.10

Jelena Manojlovic

*Asymptotic analysis of positive solutions of second-order Emden-Fowler type differential equations in the framework of regular variation*

18.10-18.30

Octavio Paulo Vera Villagran

*On asymptotic behaviour for a coupled system modeled by transverse vibrations of an inhomogeneous beam with a thermal effect*

18.30-18.50

Jelena Milošević

*Intermediate solutions of fourth order quasilinear differential equations in the framework of regular variation*

18.50-19.10

Mohammad Mujalli Almahameed

*Maximum Principles for Some Higher Order Ordinary Differential Equations*

19.10-19.30

Marija Mikic, Julka Knezevic-Miljanovic

*Some asymptotic properties of second order differential equation*

17:00–19:30

**Field 3b** – Chairman: Vesna Jevremovic

17.30-18.00

Tibor Pogany

*Whittaker sampling*

18.00 -18.30

Gradimir Milovanovic, Biljana Popovic, Vladica Stojanovic

*An Application of the ECF Method and Numerical Integration in Estimation of the Stochastic Volatility Models*

18.30-18.50

Aleksandar S. Nastić, Miroslav M. Ristić

*On outperforming binomial thinning operator using geometric counting sequence in some real-life situations*

18.50-19.10

Božidar V Popović, Hassan Bakouch

*New first-order autoregressive model with applications*

19.10-19.30

Slobodanka Jankovic

*Three unit system with repair and preventive maintenance*

19.30-19.50

Predrag Popović, Aleksandar Nastić, Miroslav Ristić

*Bivariate autoregressive models in time series of counts forecasting*

## May 23, 2014

09:00–11:00 **Plenary lectures**

11:00–11:30 Coffee break

11:30–13:30 Field 3 – Chairman: Robin Harte

11.30-11.50

Dragan Djordjevic

*On operators on Hilbert  $C^*$ -modules*

11.50-12.10

Ivana Djolović

*Characterization of Some Classes of Operators*

12.10-12.30

Risto Malcheski, Katerina Anevka

*Characterization of 2-inner product by strictly convex 2-norm of modul  $c$*

12.30-12.50

Milica Z. Kolundžija

*Outer generalized inverses with prescribed idempotents of block matrices in Banach algebras*

12.50-13.10

Ümit Totur, Muhammet Ali Okur

*Some classical Tauberian theorems for the weighted mean methods of integrals*

13.10-13.30

Katarina Petković

*Matrix domain of the triangle in  $L_p$ ,  $1 \leq p \leq \infty$*

13:30–15:00 Lunch break

15:00–17:10 **Field 3a** – Chairman: Ivana Djolović

15.00-15.30

Slavisa Đorđević

*Spectrum of an bounded linear operator and invariant subspaces*

15.20-15.50

Dragana Cvetković-Ilić

*Generalized inverses, projectors, completions of operator matrices*

15.50-16.10

Árpád Baricz

*Inequalities for the generalized inverse trigonometric and hyperbolic functions*

16.10-16.30

Snezana Zivkovic-Zlatanovic, Milos Cvetkovic, Dragan Djordjevic

*On closed upper and lower semi-Browder operators*

16.30-16.50

Dijana Mosić

*Generalized Drazin inverse of block matrices in a Banach algebra*

16.50-17.10

Jovana Nikolov, Dragana Cvetković-Ilić

*Pseudoinverses and reverse order law for matrices and operators*

17:10–17:30 Coffee break

17:30–19:30 **Field 3a** – Chairman: Slaviša Đorđević

17.30-17.50

Nebojša Č. Dinčić, Dragan S. Djordjević

*Recent results on reverse order law*

17.50-18.10

Marko Miladinović, Predrag Stanimirović

*Gradient methods for computing the least-square solutions*

18.10-18.30

Jelena Višnjić, Dragana Cvetković-Ilić

*Additive properties of the Drazin inverse for block matrix and its representations*

18.30-18.50

Ivana Radojević

*Quasihyponormal, EP and J-EP Matrices in Indefinite Inner Product Spaces*

18.50-19.10

Shahram Rezapour

*Endpoints of beta-shrinking beta-convergent multifunctions*

19.10-19.30

Yilmaz Erdem, İbrahim Çanak

*Some Tauberian Theorems For The Product Method Of Abel And Cesaro Summability to Convergence*

15:00–17:00 **Field 3b** – Chairman: Aleksandar Ivić

15.00-15.20

Arindam Sarkar

*On a Result of Uniqueness of Meromorphic Functions Sharing Two Sets with Less Cardinality*

15.20 -15.50

Aram Vladimirovich Arutyunov

Covering mappings and coincidence points

15.50 -16.10

Daniel Ciuiu

*PERT method with Monte Carlo Simulation, and the Most Probable Critical Path*

16.10-16.30

Abdellah Qannari, Gerard Brunet, Mohamed Ibazizen

*Knowledge-based Recognition of Objects in Aerial Images*

16.30-16.50

Abdellah Qannari, Gerard Brunet, Mohamed Ibazizen

*Knowledge-based Recognition of Objects in Aerial Images*

17:00–17:30 *Cofee break*

17:30–19:30 **Field 3b** – Chairman: Tibor Pogany

17.30-17.50

Vesna Jevremovic, Kristina Veljkovic, Halima Elfaghihe

*Quality control - history and recent development*

17.50-18.10

Miljana Jovanovic, Maja Krstic

*Non-autonomous stochastic Gilpin–Ayala competition model with time-dependent delay*

18.10-18.30

Kristina Veljkovic, Halima Elfaghihe, Vesna Jevremovic

*Economic statistical design of  $\bar{X}$  bar control chart for non-normal symmetric distribution of quality characteristic*

18.30-18.50

İbrahim Çanak, Sefa ANIL SEZER

*A Theorem for the Weighted Mean Method of Summability*

18.50-19.10

Arpad Takači

*On the asymptotic behavior and expansion of the generalized Stieltjes transform*

19.10-19.30

Sefa Anil Sezer, İbrahim Çanak

*Conditions for the equivalence of power series and discrete power series methods of summability*

## May 24, 2014

09:00–11:00 **Plenary lectures**

11:00–11:30 Coffee break

11:30–13:30 Field 1 – Chairman: Pavle Blagojević

11.30-11.50

Stevan Pilipovic, Suzana M Aleksic

*Construction of  $p$  frames for weighted shift-invariant spaces*

11.50-12.10

Marko Obradović

*On Asymptotic Efficiency of Goodness of fit Tests for Pareto Distribution based on Characterizations*

12.10-12.30

Jelena Aleksic, Stevan Pilipovic, Ivana Vojnovic

*H-distributions*

12.30-12.50

Nikola Tuneski

*Some results on the class  $\mathcal{U}$  and the class of  $\alpha$ -convex functions*

12.50-13.10

Biljana Jolevska-Tuneska

*On compositions of distributions*

13.10-13.30

Ilja Gogic

*Derivations and local multipliers of  $C^*$ -algebras*

13:30–15:00 Lunch break

15:00–17:00 **Field 3a** – Chairman: Slobodanka Jankovic

15.00-15.20

Miljana Jovanovic, Marija Krstic

*Stability of stochastic vector-borne disease model with direct transmission*

15.20-15.40

Jasmina Djordjevic, Svetlana Jankovic

*Perturbed backward stochastic Volterra integral equations*

15.40-16.00

Ljiljana Petrovic, Sladjana Dimitrijevic

*Generalizations of Granger Causality in Continuous Time and Some Types of Convergence*

16.00-16.20

Lenka Glavas

*New examples of partial samples from the uniform AR(1) process and asymptotic distributions of extremes*

16.20-16.40

Tijana Levajković

*Chaos Expansion Method for SDEs*

16.40-17.00

Marija Milošević

*Pantograph stochastic differential equations under nonlinear growth conditions and the Euler-Maruyama approximation*

17.00-17.20

Dragana Valjarevic, Ljiljana Petrović

*Theory of statistical causality and extremality of measure*

17:00–17:30 Coffee break

17:30–19:30 **Field 3a**– Chairman: Gradimir Milovanović

17.30-17.50

Sanja Konjik

*Constitutive equations with complex derivatives in viscoelastic models*

17.50-18.10

Biljana Jolevska-Tuneska, Tatjana Atanasova-Pacemska

*Results on product of distributions*

18.10-18.30

Jelena Sreten Stanojevic

*Transformed confidence intervals for mean of skewed distributions*

18.30-18.50

Andrea Rožnjik

*Asymptotic Estimates of Solutions of a System of Delay Difference Equations with Continuous Time*

18.50-19.10

Bratislav D. Iricanin

*On explicit solutions of higher-order rational difference equations and their system*

19.10-19.30

Hajnalka Peics, Andrea Rožnjik

*Asymptotic Estimates of Solutions of a System of Delay Difference Equations with Continuous Time*

11:00–11:30 Coffee break

11:30–13:30 **Field 3b** – Chairman: Slavko Simic

11.30-12.00

Slavko Simic

*Some best possible Lipschitz constants for the distance ratio metric*

12.00-12.30

Zoran Kadelburg, Stojan Radenovic

*Fixed point results in generalized metric spaces without Hausdorff property*

12.30-12.50

Ljiljana M. Gajic, Mila M. Stojaković

*On fixed point results for Matkowski type of mappings in G-metric spaces*

12.50-13.10

Vladimir Pavlovic, Dejan Ilic, Vladimir Rakocevic

*Partial metric fixed point theory: variations on a theorem of Fisher*

13.10-13.30

Rale M. Nikolić, Siniša N. Ješić, Nataša A. Babačev, Dragan Ž. Djurčić

*Fixed point theorems for non-self mappings with nonlinear contractive condition in strictly convex Menger PM-spaces*

13.30-13.50

Miloš Arsenović

*Multipliers in spaces of harmonic functions and embedding theorems*

13:30–15:00 Lunch break

15:00–17:00 Field 1 – Chairman: Miroslav Ristic

15.00-15.30

S. Rackov1, Z. Lozanov Crvenković

*Application of Cox proportional hazard model in credit risk analysis*

15.20-15.40

Đurđica Takači

*On the solutions of the higher order of fuzzy differential equation*

15.40-16.00

Ekrem Aki Aljimi

*Approximation for periodic functions via generalized weighted Norlund–Euler statistical convergence*





16.00-16.20

Tatjana Bajic

*A mean value theorem for system of integrals and the Gauss-Hermitequadrature*

16.20-16.40

Momcilo Bejlca

*Asymptotic behaviour of function mean values*

17:00–17:30 Cofee break

17:30–19:30 **Field 3b** – Chairman: Zoran Kadelburg

17.30-18.00

Nikolay Rozov

*Modified model of FitzHugh – Nagumo in neurodynamics*

18.00-18.30

Jelena Jockovic, Pavle Mladenovic

*New limit theorems for the coupon collector's problem*

18.30-18.50

Predrag Rajkovic, Sladjana Marinkovic, Natasa Savic

*Geometry of an experiment and the function of expected values*

18.50-19.10

Abhijit Banerjee

*Uniqueness Of Meromorphic Functions Sharing Two Sets With Finite Weight III*

19.10-19.30

Gerard Brunet

*Principal Component Analysis applied to Real Images*

19.30-19.50

Sibel Ersan, Huseyin Cakalli

*Lacunary ward continuity in two normed spaces*

## May 25, 2014

09:00–10:10 **Plenary lectures**

11:00–11:30 Cofee break

11:30–13:40 **Field 3a** – Chairman: Slobodanka Jankovic

11.30-12.00

Sergey Evgenyevich Zhukovskiy, Aram Arutyunov

*Coincidence points of two mappings acting in generalized metric spaces*

12.00-12.30

Leda Minkova

*Bivariate Inflated-parameter Power Series Distributions*

12.30-13.00

Ekrem Savas

*Lacunary statistical convergence of double sequences in topological groups*

13.00-13.20

Huseyin Cakalli

*Upward and downward statistical continuities*

13:20–13:30 Cofee break

13:30–14:30 **Field 3a** – Chairman: Leda Minkova

13.30-13.50

Hermann Mena

*Numerical Solution of the infinite-dimensional LQR/LQG-design problem*

13.50-14.10

Bojana Milosevic

*The Existence of the Density of the Ruin Time for the Sum of Two Compound Poisson Processes Perturbed by a Diffusion*

14.10-14.30

Javid Ali

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