

**15. SERBIAN MATHEMATICAL CONGRESS  
NATIONAL ASSEMBLY WITH INTERNATIONAL  
PARTICIPATION  
June 19-22, 2024**

**The program of the first day of the Congress is held in the ceremonial hall of  
the Rectorate of the University of Belgrade,  
Studentski trg 1**

**The program of the second, third and fourth day of the Congress is held in the  
premises of the Faculty of Mathematics,  
Studentski trg 16, fourth floor**

# **PROGRAM**



## First day, Wednesday the 19th of June, 2024

### PLENARY SESSIONS

10:00 –16:00 the ceremonial hall of the Rectorate of the University of Belgrade,

**Chairman: Zoran Rakić**, University of Belgrade, Faculty of Mathematics

10:00 – 10:30
<b>Ceremonial opening of the congress</b>
10:30 – 11:15
<b>Vladimir Marković</b> , Senior Research Fellow at All Souls, Mathematical Institute, University of Oxford, UK
<u><a href="#">„Geometry of Harmonic Maps”</a></u>
11:15 – 12:00
<b>Endre Süli</b> , Mathematical Institute, University of Oxford, UK
<u><a href="#">„Existence of Large-Data Global Weak Solutions to Navier–Stokes–Fokker–Planck Systems”</a></u>

**Break for coffee and refreshments 12:00 – 12:30**

**Chairman: Miloš Arsenović**, University of Belgrade, Faculty of Mathematics

12:30 – 13:15
<b>Andrei Vesnin</b> , Sobolev Institute of Mathematics and Tomsk State University, Russia
<u><a href="#">„On volumes of hyperbolic polyhedra and hyperbolic knot complements”</a></u>
13:15 – 14:00
<b>Владимир Драговић</b> , University of Texas at Dallas, USA; Математички институт САНУ
<u><a href="#">„Аласовим трагом до наших дана“</a></u>

**Break for coffee and refreshments 14:00 – 14:30**

**Chairman: Miljan Knežević**, University of Belgrade, Faculty of Mathematics

14:30 – 15:15
<b>Fabio Gavarini</b> , University of Rome “Tor Vergata”, Italia
<u><a href="#">„Supergeometry and supersymmetries: an introduction”</a></u>
15:15 – 16:00
<b>Silvia Ghilezan</b> , University of Novi Sad; Mathematical Institute SASA
<u><a href="#">„Proofs-as-programs: from logic to AI”</a></u>

**16:00 Cocktail**

## Second day, Thursday the 20th of June, 2024

### PLENARY SESSIONS 10:00 – 11:30, hall 706, fourth floor

**Chairman:** Vladimir Dragović, University of Texas at Dallas, USA; Mathematical Institute SANU

10:00 – 10:45
<b>Miodrag Mateljević</b> , University of Belgrade, Faculty of Mathematics; Serbian Academy of Sciences and Arts
<u><i>„Hölder and Lipschitz continuity of mapping in the Sobolev classes <math>W^{1,p}(G)</math>”</i></u>
10:45 – 11:30
<b>Aleksandar Nastić</b> , University of Niš, Faculty of Sciences and Mathematics
<u><i>„On Random Environment Integer-valued Autoregressive Models”</i></u>

**Break for coffee and refreshments 11:30 – 12:00**

**First Section: REAL AND FUNCTIONAL ANALYSIS, COMPLEX ANALYSIS, GLOBAL ANALYSIS, OPERATOR THEORY, ANALYTIC NUMBER THEORY, PARTIAL AND DIFFERENTIAL EQUATIONS**

**12:00 – 17:30, hall 706, fourth floor**

**First part: 12:00 – 13:40**

**Chairman:** Jovana Nikolić, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Snežana Gordić</b> , University of Novi Sad, Faculty of Education in Sombor
<u><i>„Analysis of parabolic equations with singular potentials in Kondratiev spaces of generalized stochastic processes”</i></u>
12:25 – 12:50
<b>Ljubica Oparnica</b> , University of Novi Sad, Faculty of Education in Sombor
<u><i>„Schrödinger-type equations with singular potentials”</i></u>
12:50 – 13:15
<b>Dušan Bajović</b> , University of Banja Luka, Faculty of Electrical Engineering <b>Zoran Mitrović</b> , University of Banja Luka, Faculty of Electrical Engineering <b>Ivan Arandelović</b> , University of Belgrade, Faculty of Mechanical Engineering
<u><i>„On estimating convergence for Pickard sequences in quasi b-metric and rectangular quasi b-metric spaces”</i></u>
13:15 – 13:40
<b>Jasmina Vujadinović</b> , University of Defence, Military Academy, Belgrade <b>Rale M. Nikolić</b> , University of Defence, Military Academy, Belgrade <b>Vladimir T. Ristić</b> , University of Kragujevac, Faculty of Education, Jagodina <b>Aleksandar Šebeković</b> , State University of Novi Pazar
<u><i>„On some fixed and common fixed point results obtained for Menger PM-spaces”</i></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part: 15:00 – 17:30**

**Chairman: Ivan Arandelović**, University of Belgrade, Faculty of Mathematics

15:00 – 15:25
<b>Ivana Đolović</b> , University of Belgrade - Technical faculty in Bor
<u><i>„Some applications of factorable matrices”</i></u>
15:25 – 15:50
<b>Dragan Rakić</b> , University of Niš, Faculty of Mechanical Engineering
<u><i>„Partial orders in Rickart rings defined by annihilators”</i></u>
15:50 – 16:15
<b>Milica Savatović</b> , University of Belgrade, School of Electrical Engineering <b>Jasmina Vujadinović</b> , University of Defence, Military Academy, Belgrade
<u><i>„Some fixed point results for F-contractions”</i></u>
16:15 – 16:40
<b>Matija Milović</b> , University of Belgrade, Faculty of Mathematics
<u><i>„Weak integration of operator valued functions”</i></u>
16:40 – 17:05
<b>Petar Melentijević</b> , University of Belgrade, Faculty of Mathematics
<u><i>„Lp norm of truncated Riesz transform and an improved dimension-free Lp estimate for maximal Riesz transform”</i></u>
17:05 – 17:30
<b>Miloš Arsenović</b> , University of Belgrade, Faculty of Mathematics
<u><i>„A note on the Toeplitz operators on weighted mixed norm spaces”</i></u>

**Third section: NUMERICAL MATHEMATICS, DISCRETE MATHEMATICS;  
OPTIMIZATION AND APPLICATIONS**

**12:00 – 16:40, hall RLAB, fourth floor**

**First part: 12:00 – 13:40**

**Chairman: Milan Dražić**, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Nebojša Nikolić</b> , University of Belgrade, Faculty of Organizational Sciences <b>Dušan Džamić</b> , University of Belgrade, Faculty of Organizational Sciences
<u><i>„Metric dimension of hypercube and coin weighing problem”</i></u>
12:25 – 12:50
<b>Nemanja Vučićević</b> , University of Kragujevac, Faculty of Science
<u><i>„A machine learning method with extra-gradient step”</i></u>
12:50 – 13:15
<b>Ljubica Mudrić-Staniškovski</b> , University of Kragujevac, Faculty of Engineering <b>Ljubica Đurović</b> , University of Kragujevac, Faculty of Science <b>Nenad Stojanović</b> , University of Kragujevac, Faculty of Science
<u><i>„Decision-making algorithms based on fuzzy soft sets”</i></u>
13:15 – 13:40
<b>Оливера Станчић</b> , Универзитет у Крагујевцу, Економски факултет <b>Зорица Станимировић</b> , Универзитет у Београду, Математички факултет
<u><i>„Анализа и поређење варијанти проблема р-хаб максималног покривања са различитим алокацијским шемама“</i></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part 15:00 – 16:40**

**Chairman: Olivera Stančić**, University of Kragujevac, Faculty of Economics

15:00 – 15:25
<b>Милојица Јаћимовић</b> , Црногорска академија наука и умјетности, Подгорица <b>Невена Мијајловић</b> , Универзитет Црне Горе, Подгорица
<u><i>„Награда Свјетске асоцијације лауреата за Математику или Рачунарске науке“</i></u>
15:25 – 15:50
<b>Milan Bašić</b> , University of Niš, Faculty of Sciences and Mathematics
<u><i>„Some extremal value problems of vertex-degree-based invariants on trees and connected graphs”</i></u>
15:50 – 16:15
<b>Dragan Stevanović</b> , Mathematical Institute SANU
<u><i>„Reinforcement learning for graphs and beyond”</i></u>
16:15 – 16:40
<b>Бојана Михаиловић</b> , Универзитет у Београду, Електротехнички факултет <b>Бранко Малешевић</b> , Универзитет у Београду, Електротехнички факултет
<u><i>„Раслојене фамилије функција и примене“</i></u>

**Fourth section: GEOMETRY, TOPOLOGY, SYMPLECTIC GEOMETRY,  
MECHANICS**

**12:00 – 17:30, hall BIM, fourth floor**

**First part: 12:00 – 13:40**

**Chairman: Božidar Jovanović**, Mathematical Institute SANU

12:00 – 12:25
<b>Катарина Лукић</b> , Универзитет у Београду, Математички факултет
<u><i>„О Јакоби-ортогоналности у Римановој и псеудо-Римановој геометрији“</i></u>
12:25 – 12:50
<b>Ognjen Tošić</b> , Mathematical Institute, University of Oxford, Radcliffe Observatory, UK
<u><i>„Complex analytic methods for virtual properties of mapping class groups”</i></u>
12:50 – 13:15
<b>Ivan Limonchenko</b> , Mathematical Institute SASA
<u><i>„Loop homology of polyhedral products and Golod rings”</i></u>
13:15 – 13:40
<b>Dušan Joksimović</b> , University of Belgrade, Faculty of Mathematics
<u><i>„On generalizations of Eliashberg-Gromov's theorem”</i></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part: 15:00 – 17:30**

**Chairman: Dušan Joksimović**, University of Belgrade, Faculty of Mathematics

15:00 – 15:25
<b>Маринко Тимотијевић</b> , Универзитет у Крагујевцу, Природно-математички факултет <b>Раде Живаљевић</b> , Математички институт САНУ
<u><i>„Конструкција ауто-дуалних комплекса, ауто-дуалне триангулације многострукости“</i></u>
15:25 – 15:50
<b>Ivan Dimitrijević</b> , University of Belgrade, Faculty of Mathematics
<u><i>„Nonlocal de Sitter <math>\sqrt{dS}</math> gravity“</i></u>
15:50 – 16:15
<b>Божидар Јовановић</b> , Математички институт САНУ <b>Срђан Вукмировић</b> , Универзитет у Београду, Математички факултет <b>Тијана Шукиловић</b> , Универзитет у Београду, Математички факултет
<u><i>„Класификација подгрупа без вишеструкости и полиномијално интеграбилни суб-Риманови геодезиски токови“</i></u>
16:15 – 16:40
<b>Борислав Гајић</b> , Математички институт САНУ <b>Владимир Драговић</b> , University of Texas at Dallas, USA; Математички институт САНУ <b>Божидар Јовановић</b> , Математички институт САНУ
<u><i>„Интеграбилни случајеви нехолономног система контролања сфера као уопштења кретања Чаплигинове лопте“</i></u>
16:40 – 17:05
<b>Emil Molnár</b> , Budapest University of Technology and Economics
<u><i>„Quantum "dots" and non-Euclidean crystallography on the 200th anniversary of János Bolyai's absolute geometry“</i></u>
17:05 – 17:30
<b>Slobodan Nedić</b> , University of Novi Sad, Faculty of Technical Sciences (retired)
<u><i>„On the Trail of Vujičić's Coordinates-Independent Position Vector Formulation: Problematizing and Correcting Traditional Divergence and Laplacian Operators“</i></u>

**Fifth section: PROBABILITY AND STATISTICS, INFORMATION THEORY, DATA ANALYSIS**

**12:00 – 16:40, hall 718, fourth floor**

**First part: 12:00 – 13:40**

**Chairman: Aleksandar Nastić**, University of Niš, Faculty of Sciences and Mathematics

12:00 – 12:25
<b>Milica Karapetrović</b> , University of Belgrade, School of Electrical Engineering
<u><i>„Estimates for the diameter of planar Brownian motion“</i></u>
12:25 – 12:50
<b>Dragana Valjarević</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics <b>Ljiljana Petrović</b> , University of Belgrade
<u><i>„Statistical causality and separability of stochastic processes in continuous time“</i></u>
12:50 – 13:15
<b>Žikica Lukić</b> , University of Belgrade, Faculty of Mathematics
<u><i>„On a two-sample test for equality of matrix distributions based on Laplace transforms“</i></u>

13:15 – 13:40
<b>Stefan Malbašić</b> , University of Belgrade, Faculty of Mathematics <b>Zoran Vidović</b> , University of Belgrade, Faculty of Education
<u><i>„Objective analysis for Generalized exponential distribution based on records with applications”</i></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part: 15:00 – 16:40**

**Chairman: Bojana Milošević**, University of Belgrade, Faculty of Mathematics

15:00 – 15:25
<b>Božidar V. Popović</b> , University of Montenegro, Faculty of Science and Mathematics
<u><i>„One integral transform of the copula function”</i></u>
15:25 – 15:50
<b>Lethani M. Ndwandwe</b> , North-West University, Potchefstroom, South Africa <b>James S. Allison</b> , North-West University, Potchefstroom, South Africa <b>Marius Smuts</b> , North-West University, Potchefstroom, South Africa <b>Jaco Visagie</b> , North-West University, Potchefstroom, South Africa
<u><i>„On a new class of tests for the Pareto distribution using Fourier methods”</i></u>
15:50 – 16:15
<b>Danijel Aleksić</b> , University of Belgrade, Faculty of Organizational Sciences <b>Bojana Milošević</b> , University of Belgrade, Faculty of Mathematics
<u><i>„To impute or not to? A multivariate goodness-of-fit testing perspective”</i></u>
16:15 – 16:40
<b>Bernhard Klar</b> , Karlsruhe Institute of Technology (KIT), Germany <b>Bojana Milošević</b> , University of Belgrade, Faculty of Mathematics <b>Marko Obradović</b> , University of Belgrade, Faculty of Mathematics
<u><i>„On Circular Density Estimation - Fejér Kernel Approach”</i></u>

**Break for coffee and refreshments 16:40-17:00**

**Gala dinner of the Congress 19:00**

## Third day, Friday the 21st of June, 2024

### PLENARY SESSIONS 10:00 – 13:30, hall 706, fourth floor

**Chairman:** Stevan Gajović, Charles University in Prague

10:00 – 10:45
<b>Plenary lecture of the winner of the Congress award</b>
10:45 – 11:30
<b>Petar Marković</b> , University of Novi Sad, Faculty of Science
<u><i>„History of the Constraint Satisfaction Problem: Motivation, Techniques, Solution and Beyond”</i></u>

**Break for coffee and refreshments 11:30 – 12:00**

**First Section: REAL AND FUNCTIONAL ANALYSIS, COMPLEX ANALYSIS, GLOBAL ANALYSIS, OPERATOR THEORY, ANALYTIC NUMBER THEORY, PARTIAL AND DIFFERENTIAL EQUATIONS**

**12:00 – 14:50, hall 706, fourth floor**

**First part: 12:00 – 13:15**

**Chairman:** Petar Melentijević, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Stefan Ivković</b> , Mathematical Institute SANU
<u><i>„Semi-Fredholm theory in unital <math>C^*</math>-algebras”</i></u>
12:25 – 12:50
<b>Dušica Dmitrović</b> , University of Belgrade, Faculty of Mathematics
<b>Boban Karapetrović</b> , University of Belgrade, Faculty of Mathematics
<u><i>„Norm of the Hilbert matrix operator on positively indexed weighted Bergman spaces”</i></u>
12:50 – 13:15
<b>Danko R. Jocić</b> , University of Belgrade, Faculty of Mathematics
<u><i>„Noncommutative Schwarz lemma and Pick–Julia theorems for generalized derivations in <math>\mathcal{Q}</math>, <math>\mathcal{Q}^*</math> and Schatten-von Neumann ideals of compact operators”</i></u>

**Break for coffee and refreshments 13:15 – 13:35**



**Second part: 13:35 – 14:50**

**Chairman: Boban Karapetrović**, University of Belgrade, Faculty of Mathematics

13:35 – 14:00
<b>Smiljana Jakšić</b> , University of Belgrade, Faculty of Forestry <b>Stevan Pilipović</b> , University of Novi Sad, Faculty of Sciences <b>Bojan Prangoski</b> , Ss. Cyril and Methodius University in Skopje, Faculty of Mechanical Engineering, N. Macedonia
<u><i>„Global regularity of Weyl pseudo-differential operators with radial symbols in each phase-space variable”</i></u>
14:00 – 14:25
<b>Aleksandar Aksentijević</b> , University of Kragujevac, Faculty of Science <b>Suzana Aleksić</b> , University of Kragujevac, Faculty of Science <b>Stevan Pilipović</b> , University of Novi Sad, Faculty of Sciences
<u><i>„Shift-invariant subspaces of Sobolev spaces and wave fronts”</i></u>
14:25 – 14:50
<b>Ivan Arandelović</b> , University of Belgrade, Faculty of Mechanical Engineering <b>Zoran Mitrović</b> , University of Banja Luka, Faculty of Electrical Engineering
<u><i>„Fifty Years of the Ćirić Fixed Point Theorem on Quasi-Contractions”</i></u>

**Second section: MATHEMATICAL LOGIC, ALGEBRA, ALGEBRAIC GEOMETRY, SET THEORY; ALGEBRAIC NUMBER THEORY**

**12:00 – 14:50, hall BIM, fourth floor**

**First part: 12:00 – 13:15**

**Chairman: Sonja Telebaković Onić**, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Guido Maria Lido</b> , Università di Roma Tor Vergata, Italia <b>Giulio Codogni</b> , Università di Roma Tor Vergata, Italia
<u><i>„Isogeny graphs, modular forms and signatures”</i></u>
12:25 – 12:50
<b>Маја Рославцев</b> , Универзитет у Београду, Математички факултет <b>Зоран З. Петровић</b> , Универзитет у Београду, Математички факултет
<u><i>„Гребнерове базе за модуле над Приферовим доменима“</i></u>
12:50 – 13:15
<b>Stefan Stanimirović</b> , University of Niš, Faculty of Sciences and Mathematics <b>Ivana Micić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Miroslav Ćirić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Zorana Jančić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Ivan Stanković</b> , University of Niš, Faculty of Sciences and Mathematics
<u><i>„On the Solvability of Certain Nonlinear Systems of Fuzzy Relation Equations”</i></u>

**Break for coffee and refreshments 13:15 – 13:35**

**Second part: 13:35 – 14:50**

**Chairman: Maja Roslavcević**, University of Belgrade, Faculty of Mathematics

13:35 – 14:00
<b>Miroslav Ćirić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Jelena Ignjatović</b> , University of Niš, Faculty of Sciences and Mathematics <b>Predrag Stanimirović</b> , University of Niš, Faculty of Sciences and Mathematics
<u><a href="#">„Idempotent-aided factorizations of matrices over a field”</a></u>
14:00 – 14:25
<b>Aleksandra Kostić Matijević</b> , University of Belgrade, Faculty of Mathematics <b>Nela Milošević</b> , University of Donja Gorica, Faculty of Applied Sciences, Podgorica <b>Zoran Z. Petrović</b> , University of Belgrade, Faculty of Mathematics
<u><a href="#">„Simplicial complexes associated to character degrees of solvable groups”</a></u>
14:25 – 14:50
<b>Zoran Pucanović</b> , University of Belgrade, Faculty of Civil Engineering <b>Marko Pešović</b> , University of Belgrade, Faculty of Civil Engineering
<u><a href="#">„Invertibility of some special matrices involving certain numbers”</a></u>

**Third section: NUMERICAL MATHEMATICS, DISCRETE MATHEMATICS;  
OPTIMIZATION AND APPLICATIONS**

**12:00 – 14:50, hall 718, fourth floor**

**First part: 12:00 – 13:15**

**Chairman: Zorica Dražić**, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Ana Vučetić</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics <b>Miroslav Maksimović</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics <b>Marija Najdanović</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics <b>Milena J. Petrović</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics
<u><a href="#">„Solving an unconstrained minimization problem using the Hybrid Modified Accelerated Gradient Method”</a></u>
12:25 – 12:50
<b>Marko Petković</b> , University of Niš, Faculty of Sciences and Mathematics <b>Mihailo Krstić</b> , University of Belgrade, Faculty of Mathematics <b>Kostadin Rajković</b> , University of Niš, Faculty of Sciences and Mathematics
<u><a href="#">„Iterative methods with constant and variable coefficients for computing matrix inverses”</a></u>
12:50 – 13:15
<b>Ivan Damnjanović</b> , University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies, Slovenia; University of Niš, Faculty of Electronic Engineering <b>Dragan Stevanović</b> , Abdullah Al-Salem University, College of Integrative Studies, Kuwait <b>Salem Al-Yakoob</b> , Kuwait University, Faculty of Science, Kuwait
<u><a href="#">„On transmission irregular graphs — starlike and double starlike trees and long pendent paths”</a></u>

**Break for coffee and refreshments 13:15 – 13:35**

**Second part: 13:35 – 14:50**

**Chairman: Marko Petrović**, Универзитет у Нишу, Природно-математички факултет

13:35 – 14:00
<b>Bojana Borovićanin</b> , University of Kragujevac, Faculty of Science <b>Marija Jerotijević</b> , Union University, School of Computing
<u><i>„On the extremal Harary index of graphs with given parameters”</i></u>
14:00 – 14:25
<b>Иван Лазаревић</b> , Универзитет у Београду, Грађевински факултет
<u><i>„Хипотеза Никифорова и случајни графови“</i></u>
14:25 – 14:50
<b>Тања Стојадиновић</b> , Универзитет у Београду, Математички факултет <b>Стефан Митровић</b> , Универзитет у Београду, Математички факултет
<u><i>„e-позитивност неких нових класа графова“</i></u>

**Fourth section: GEOMETRY, TOPOLOGY, SYMPLECTIC GEOMETRY, MECHANICS**

**12:00 – 14:00, hall 704, fourth floor**

**First part: 12:00 – 13:15**

**Chairman: Borislav Gajić**, Mathematical Institute SANU

12:00 – 12:25
<b>Isidora Rapajić</b> , Mathematical Institute SANU <b>Srboljub Simić</b> , University of Novi Sad, Faculty of Sciences
<u><i>„Capillary motion through a pipe with a variable cross section”</i></u>
12:25 – 12:50
<b>Dušan Đorđević</b> , University of Belgrade, Faculty of Physics <b>Danica Kosanović</b> , ETH Zürich, Department of Mathematics, Switzerland <b>Jovana Nikolić</b> , University of Belgrade, Faculty of Mathematics <b>Zoran Petrić</b> , Mathematical Institute SANU
<u><i>„Frobenius structure on a restricted (2+1)-TOFT”</i></u>
12:50 – 13:15
<b>Filip Zivanović</b> , Simons Center for Geometry and Physics, USA
<u><i>„(Non-)existence of Lagrangians in hyperkähler manifolds”</i></u>

**Break for coffee and refreshments 13:15 – 13:35**

**Second part: 13:35 – 14:00**

**Chairman: Filip Živanović**, Simons Center for Geometry and Physics, USA

13:35 – 14:00
<b>Filip Jevtić</b> , Mathematical Institute SANU <b>Rade Živaljević</b> , Mathematical Institute SANU <b>Marinko Timotijević</b> , University of Kragujevac, Faculty of Sciences
<u><a href="#">„Polytopality of Bier Spheres”</a></u>

**Fifth section: PROBABILITY AND STATISTICS, INFORMATION THEORY, DATA ANALYSIS**

**12:00 – 15:15, hall RLAB, fourth floor**

**First part: 12:00 – 13:15**

**Chairman: Marija Cuparić**, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Vesna Rajić</b> , University of Belgrade, Faculty of Economics and Business <b>Jelena Stanojević</b> , University of Belgrade, Faculty of Economics and Business
<u><a href="#">„Application of resampling methods when testing agreement with Benford’s distribution”</a></u>
12:25 – 12:50
<b>Anđela Mijanović</b> , University of Montenegro, Faculty of Science and Mathematics
<u><a href="#">„A goodness of fit test based on the median’s characteristic function”</a></u>
12:50 – 13:15
<b>Predrag M. Popović</b> , University of Niš, Faculty of Civil Engineering and Architecture <b>Miroslav M. Ristić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Aleksandar S. Nastić</b> , University of Niš, Faculty of Sciences and Mathematics
<u><a href="#">„Contribution of Bivariate INAR Models in Modeling Time Series of Counts”</a></u>

**Break for coffee and refreshments 13:15 – 13:35**

**Second part: 13:35 – 15:15**

**Chairman: Marko Obradović**, University of Belgrade, Faculty of Mathematics

13:35 – 14:00
<b>Ana Merkle</b> , University of Belgrade, Faculty of Mathematics <b>Dragana Valjarević</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics
<u><a href="#">„Connections between Causality and Measurable Separability of <math>\sigma</math>-algebras”</a></u>
14:00 – 14:25
<b>Sladana Dimitrijević</b> , University of Kragujevac, Faculty of Science <b>Ljiljana Petrović</b> , University of Belgrade <b>Dragana Valjarević</b> , University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics
<u><a href="#">„Causality, optional and predictable projections”</a></u>
14:25 – 14:50
<b>Stefan Mirchevski</b> , European University, Faculty of Informatics, North Macedonia; Ss. Cyril and Methodius University, Faculty of Civil Engineering, North Macedonia

<b>Verica Bakeva</b> , Ss. Cyril and Methodius University, Faculty of Computer Science and Engineering, North Macedonia
<u><a href="#">„Service rate-based analysis of two-phase single-server queueing system with hypoexponential customer service time”</a></u>
14:50 – 15:15
<b>Asmerilda Hitaj</b> , University of Insubria, Italia <b>Elisa Mastrogiacono</b> , University of Insubria, Italia <b>Elena Molho</b> , University of Pavia, Italia
<u><a href="#">„Robust bi-objective mean-CVaR portfolio selection: applications to energy sector”</a></u>

**Sixth section: COMPUTER SCIENCE**

**14:00 – 14:50, hall 704, fourth floor**

**Chairman: Sana Stojanović Đurđević**, University of Belgrade, Faculty of Mathematics

14:00 – 14:25
<b>Марко Спасић, Иван Ристовић, Страхинја Станојевић, Милан Чугуровић, Милица Карличић, Милена Вујошевић Јаничић</b> , Универзитет у Београду, Математички факултет
<u><a href="#">„Евалуација перформанси компилатора GraalVM на дистрибуираном рачунарском кластеру“</a></u>
14:25 – 14:50
<b>Ирма Ибришимовић</b> , Универзитет у Новом Саду, Факултет техничких наука; Универзитет у Тузли, Природно-математички факултет <b>Јулија Шћекић</b> , Универзитет у Новом Саду, Факултет техничких наука; Универзитет у Београду, Пољопривредни факултет <b>Дамир Бајрић</b> , Гимназија „Меша Селимовић“ Тузла, Босна и Херцеговина
<u><a href="#">„Побољшање образовног учења: Оптимизирање генетских алгоритама с неуронским мрежама у МАТЛАБ-у“</a></u>

**Excursion - from 16:30**

## Fourth day, Saturday of 22nd of June, 2024

### PLENARY SESSIONS 10:00 – 11:30, hall 706, fourth floor

**Chairman:** Nebojša Ikodinović, University of Belgrade, Faculty of Mathematics

10:00 – 10:45
<b>Миодраг Михаљевић</b> , Математички институт САНУ
<u><a href="#">„Неки сусрети вештачке интелигенције, блокчејн технологије и математике“</a></u>
10:45 – 11:30
<b>Александар Т. Липковски</b> , Универзитет у Београду, Математички факултет
<u><a href="#">„О значају математике у систему обавезног образовања“</a></u>

**Break for coffee and refreshments 11:30 – 12:00**

**First Section: REAL AND FUNCTIONAL ANALYSIS, COMPLEX ANALYSIS, GLOBAL ANALYSIS, OPERATOR THEORY, ANALYTIC NUMBER THEORY, PARTIAL AND DIFFERENTIAL EQUATIONS**

**12:00 – 17:25, hall 706, fourth floor**

**First part: 12:00 – 13:40**

**Chairman:** Nikola Mutavdžić, Mathematical Institute SANU

12:00 – 12:25
<b>Jelena Višnjić</b> , University of Niš, Faculty of Medicine
<b>Ivana Stanišev</b> , University of Belgrade, Technical Faculty in Bor
<b>Yuanyuan Ke</b> , School of Artificial Intelligence, Jiangnan University, Wuhan, P. R. China
<u><a href="#">„Reverse and Forward Order Law for the (b,c)-inverse“</a></u>
12:25 – 12:50
<b>Jelena Gajić</b> , University of Banja Luka, Faculty of Natural Sciences and Mathematics
<u><a href="#">„Derivative estimates for solutions of the <math>(\alpha, \beta)</math>-Poisson equation“</a></u>
12:50 – 13:15
<b>Zora Golubović</b> , University of Belgrade, Faculty of Mathematics
<u><a href="#">„On some recent results regarding Laplace transform“</a></u>
13:15 – 13:40
<b>Danijela Branković</b> , University of Belgrade, School of Electrical Engineering
<b>Marija Mikić</b> , University of Belgrade, Faculty of Mathematics
<u><a href="#">„Stability of two-dimensional and three-dimensional autonomous competitive Lotka-Volterra dynamical system“</a></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part: 15:00 – 16:40**

**Chairman: Jelena Gajić**, University of Banja Luka, Faculty of Natural Sciences and Mathematics

15:00 – 15:25
<b>Miodrag Mateljević</b> , University of Belgrade, Faculty of Mathematics <b>Nikola Mutavdžić</b> , Mathematical Institute SANU
<u><a href="#">„Lipschitz continuity for functions satisfying a Laplacian-gradient inequality”</a></u>
15:25 – 15:50
<b>Hranislav Stanković</b> , University of Niš, Faculty of Electronic Engineering
<u><a href="#">„Converse of Fuglede Theorem”</a></u>
15:50 – 16:15
<b>Jelena Višnjić</b> , University of Niš, Faculty of Medicine <b>Ivana Stanišev</b> , University of Belgrade, Technical Faculty in Bor <b>Dragan Đorđević</b> , University of Niš, Faculty of Sciences and Mathematics
<u><a href="#">„On relations induced by (b,c)-inverses in rings”</a></u>
16:15 – 16:40
<b>Dragan Đurčić</b> , University of Kragujevac, Faculty of Technical Sciences in Čačak <b>Danica Fatić</b> , University of Kragujevac, Faculty of Technical Sciences in Čačak <b>Valentina Timotić</b> , University of East Sarajevo, Faculty of Philosophy in Pale
<u><a href="#">„Translational regular variation and asymptotic equivalence”</a></u>

**Break for coffee and refreshments 16:40 – 17:00**

**Third part: 17:00 – 17:25**

**Chairman: Marija Mikić**, University of Belgrade, Faculty of Mathematics

17:00 – 17:25
<b>Yuri Drobotov</b> , Southern Federal University, Russia; North-Caucasus Center for Mathematical Research of the Vladikavkaz Scientific Centre of the Russian Academy of Sciences, Russia; Don State Technical University, Russia
<u><a href="#">„The Riesz Potential Type Operator in the Power-Weighted Variable Generalized Hölder Spaces Over a Metric Measure Space”</a></u>

**Second section: MATHEMATICAL LOGIC, ALGEBRA, ALGEBRAIC GEOMETRY, SET THEORY; ALGEBRAIC NUMBER THEORY**

**12:00 – 13:40, hall 704, fourth floor**

**Chairman: Dragan Đokić**, University of Belgrade, Faculty of Mathematics

12:00 – 12:25
<b>Александра Росић</b> , Универзитет у Београду, Математички факултет <b>Бранко Малешевић</b> , Универзитет у Београду, Електротехнички факултет
<u><a href="#">„О трећем фокусу Декартовог овала“</a></u>
12:25 – 12:50
<b>Ratko Darda</b> , independent researcher
<u><a href="#">„On the Stacky Manin conjecture”</a></u>

12:50 – 13:15
<b>Тања Стојадиновић</b> , Универзитет у Београду, Математички факултет <b>Владимир Грујић</b> , Универзитет у Београду, Математички факултет <b>Стефан Митровић</b> , Универзитет у Београду, Математички факултет
<u><i>„Редети-Берж симетрична функција диграфа и њене особине“</i></u>
13:15 – 13:40
<b>Dragan Stankov</b> , University of Belgrade, Faculty of Mining and Geology
<u><i>„An alternative to Mahler Measure of polynomials“</i></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Third section: NUMERICAL MATHEMATICS, DISCRETE MATHEMATICS;  
OPTIMISATION AND APPLICATIONS**

**15:00 – 17:50, hall 704, fourth floor**

**First part: 15:00 – 16:40**

**Chairman: Zorica Stanimirović**, University of Belgrade, Faculty of Mathematics

15:00 – 15:25
<b>Jelena Tomanović</b> , University of Belgrade, Faculty of Mechanical Engineering
<u><i>„Matrices in Gauss-type quadratures for variable-sign weight functions“</i></u>
15:25 – 15:50
<b>Nevena Z. Petrović</b> , University of Kragujevac, Faculty of Mechanical and Civil Engineering in Kraljevo <b>Marija P. Stanić</b> , University of Kragujevac, Faculty of Science <b>Tatjana V. Tomović Mladenović</b> , University of Kragujevac, Faculty of Science
<u><i>„The set of anti-Gaussian quadrature rules for the optimal set of quadrature rules for trigonometric polynomials“</i></u>
15:50 – 16:15
<b>Zorica Milovanović Jeknić</b> , University "Union-Nikola Tesla", Faculty of Construction Management <b>Dejan Bojović</b> , University of Kragujevac, Faculty of Science <b>Bratislav Sredojević</b> , University of Kragujevac, Faculty of Mechanical and Civil Engineering in Kraljevo <b>Aleksandra Delić</b> , University of Belgrade, Faculty of Mathematics <b>Sandra Živanović</b> , University of Belgrade, Faculty of Mathematics
<u><i>„About a class of nonlocal hyperbolic equations“</i></u>
16:15 – 16:40
<b>Sandra Živanović</b> , University of Belgrade, Faculty of Mathematics <b>Vukašin Brković</b> , University of Belgrade, Faculty of Organizational Sciences <b>Aleksandra Delić</b> , University of Belgrade, Faculty of Mathematics <b>Zorica Milovanović Jeknić</b> , University "Union-Nikola Tesla", Faculty of Construction Management
<u><i>„Numerical approximation of one dimensional fractional transmission problem“</i></u>

**Break for coffee and refreshments 16:40 – 17:00**



**Second part: 17:00 – 17:50**

**Chairman: Dušan Džamić**, University of Belgrade, Faculty of Organizational Sciences

17:00 – 17:25
<b>Aleksandar Jović</b> , University of Belgrade, Faculty of Mathematics <b>Jelena Vicanović</b> , University of Belgrade, Faculty of Technology and Metallurgy
<u><a href="#">„Lyapunov-type extremal problem with phase constraints”</a></u>
17:25 – 17:50
<b>Ђорђе Стакић</b> , Универзитет у Београду, Економски факултет <b>Ана Анокић</b> , Академија техничко-уметничких струковних студија Београд, Одсек Висока школа за информационе и комуникационе технологије <b>Татјана Давидовић</b> , Математички институт САНУ
<u><a href="#">„Векторско паковање кутија у две и три димензије решавано Редукованом методом променљивих околина“</a></u>

**Sixth section: COMPUTER SCIENCE**

**12:00 – 16:40, hall RLAB, fourth floor**

**First part: 12:00 – 13:40**

**Chairman: Miroslav Ćirić**, University of Niš, Faculty of Sciences and Mathematics

12:00 – 12:25
<b>Biljana Stojanović</b> , Mathematical Institute SASA <b>Saša Malkov, Nenad Mitić</b> , University of Belgrade, Faculty of Mathematics <b>Miloš Beljanski</b> , Institute for General and Physical Chemistry, Belgrade <b>Gordana Pavlović Lažetić, Mirjana Maljkovic Ružičić, Ivan Ćukić, Aleksandar Veljković, Stefan Kapunac</b> , University of Belgrade, Faculty of Mathematics
<u><a href="#">„Modeling the Correlations of Coronavirus and Codon Using Measures”</a></u>
12:25 – 12:50
<b>Vladimir Janković</b> , University of Belgrade, Faculty of Mathematics <b>Miodrag Živković</b> , University of Belgrade, Faculty of Mathematics
<u><a href="#">„Computer solution of an arithmetical problem”</a></u>
12:50 – 13:15
<b>Eyad Mamdouh</b> , German University in Cairo, Egypt <b>Mohamed Youssef</b> , German University in Cairo, Faculty of MET, Egypt <b>Dina El-Damak</b> , German University in Cairo, Faculty of IET, Egypt <b>Amr Diab</b> , German University in Cairo, Faculty of MET, Egypt <b>Wassim Alexan</b> , German University in Cairo, Faculty of IET, Egypt <b>Mohamed Gabr</b> , German University in Cairo, Faculty of MET, Egypt
<u><a href="#">„Hyperchaotic Systems and Other Mathematical Constructs for Enhanced Image Cube Encryption”</a></u>
13:15 – 13:40
<b>Vukašin Stanojević</b> , University of Niš, Faculty of Sciences and Mathematics
<u><a href="#">„Beyond simple thresholding: using tracklet information to improve selection of true positive detections for multiple object tracking”</a></u>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part: 15:00 – 16:40**

**Chairman: Miodrag Živković**, University of Belgrade, Faculty of Mathematics

15:00 – 15:25
<b>Predrag Stanimirović</b> , University of Niš, Faculty of Sciences and Mathematics <b>Miroslav Cirić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Dimitrios Gerontitis</b> , International Hellenic University, Thessaloniki, Greece
<u><i>„Dynamical simulations and bisimulations between weighted finite automata over the field of real numbers”</i></u>
15:25 – 15:50
<b>Miroslav Cirić</b> , University of Niš, Faculty of Sciences and Mathematics <b>Jelena Ignjatović</b> , University of Niš, Faculty of Sciences and Mathematics <b>Predrag Stanimirović</b> , University of Niš, Faculty of Sciences and Mathematics <b>Nada Damljanović</b> , University of Kragujevac, Faculty of Technical Sciences
<u><i>„Bisimulations for weighted finite automata over the field of real numbers”</i></u>
15:50 – 16:15
<b>Lazar Krstić</b> , <b>Marina Svičević</b> , <b>Milena Živković</b> , <b>Filip Andrić</b> , University of Kragujevac, Faculty of Sciences <b>Tatjana B. Miladinović</b> , University of Kragujevac, Institute for Information Technologies <b>Dragana Krstić</b> , University of Kragujevac, Faculty of Sciences
<u><i>„Advance Parameter Optimization meets Electron Dose Distribution in Voxel-based Transport Simulations”</i></u>
16:15 – 16:40
<b>Sara Lazić</b> , University of Belgrade, School of Electrical Engineering <b>Bratislav Iričanin</b> , University of Belgrade, School of Electrical Engineering
<u><i>„A calculator of some special mathematical functions”</i></u>

**Break for coffee and refreshments 16:40 – 17:00**

**Seventh section: MATHEMATICS AND COMPUTING TEACHING METHODOLOGY;  
MATHEMATICS AND INFORMATICS TEACHING**

**12:00 – 16:40, hall 718, fourth floor**

**PLENARY SESSION**

**12:00 – 12:45, hall 718, fourth floor**

**Chairman: Miroslav Marić, University of Belgrade, Faculty of Mathematics**

12:00 – 12:45
<b>Miodrag Mateljević</b> , University of Belgrade, Faculty of Mathematics; Serbian Academy of Sciences and Arts
<u><a href="#">„Hyperbolic geometry, geometry of the Minkowski space, the Möbius transformations and the special theory of relativity”</a></u>

**CONTINUATION – First part: 12:00 – 13:35**

**Chairman: Miroslav Marić, University of Belgrade, Faculty of Mathematics**

12:45 – 13:10
<b>Đorđe M. Kadijević</b> , Institute for Educational Research, Belgrade
<u><a href="#">„Learning Mathematics Using Chatbots”</a></u>
13:10 – 13:35
<b>Мирјана Катић</b> , Математичка гимназија, Београд
<u><a href="#">„Методика наставе математике у специјализованим одељењима ОШ при МГ - 20 година искуства“</a></u>

**Break for coffee and refreshments 13:35 – 15:00**

**Second part: 15:00 – 16:40**

**Chairman: Mirjana Katić, Mathematical Grammar School, Belgrade**

15:00 – 15:25
<b>Марек Светлик</b> , Универзитет у Београду, Математички факултет
<b>Миљан Кнежевић</b> , Универзитет у Београду, Математички факултет
<u><a href="#">„Површина и запремина - неки интересантни феномени“</a></u>
15:25 – 15:50
<b>Vladimir Baltić</b> , ATUSS – VIŠER, School of Electrical and Computer Engineering, Belgrade
<b>Predrag Vilotić</b> , University of Belgrade, School of Electrical Engineering
<u><a href="#">„Two interesting triangle geometrical problems”</a></u>
15:50 – 16:15
<b>Војислав Андрић</b> , Математичко друштво Диофант, Ваљево
<b>Ђорђе Голубовић</b> , 13. београдска гимназија
<u><a href="#">„Шта је Математички талент?“</a></u>
16:15 – 16:40
<b>Татјана Станковић</b> , Београдска академија пословних и уметничких струковних студија
<u><a href="#">„Диференцијалне једначине и могућност примене ChatGPT-а у настави математике“</a></u>

**Seventh section: MATHEMATICS AND COMPUTING TEACHING METHODOLOGY;  
MATHEMATICS AND INFORMATICS TEACHING**

**12:45 – 16:40, hall BIM, fourth floor**

**First part: 12:00 – 13:40**

**Chairman: Tatjana Stanković, Belgrade Business and Arts Academy of Applied Studies**

12:00 – 12:25
<b>Радослав Божић</b> , Универзитет Едуконс, Учитељски факултет, Сремска Каменица; Гимназија „Светозар Марковић“, Нови Сад
<b><u>„Проблеми размере у основном и средњем образовању“</u></b>
12:25 – 12:50
<b>Marina Svičević</b> , University of Kragujevac, Faculty of Science <b>Aleksandar Milenković</b> , University of Kragujevac, Faculty of Science <b>Miloš Pavković</b> , Singidunum University, Belgrade
<b><u>„Enhancing C++ Programming Skills through Collaborative Peer Feedback”</u></b>
12:50 – 13:15
<b>Душан Цамић</b> , Универзитет у Београду, Факултет организационих наука <b>Бранислав Ранђеловић</b> , Универзитет у Нишу, Електронски факултет; Завод за вредновање квалитета образовања и васпитања, Београд <b>Мирослав Марић</b> , Универзитет у Београду, Математички факултет
<b><u>„Развој и имплементација образовне платформе eВежбаоница“</u></b>
13:15 – 13:40
<b>Војислав Андрић</b> , Математичко друштво Диофант, Ваљево
<b><u>„Да ли наставу математике треба осавременити?“</u></b>

**Break for coffee and refreshments 13:40 – 15:00**

**Second part: 15:00 – 16:40**

**Chairman: Radoslav Božić, University Educons, Faculty of Pedagogy, Sremska Kamenica;  
Grammar School „Svetozar Marković“, Novi Sad**

15:00 – 15:25
<b>Miloš Vučić</b> , University of Belgrade, Faculty of Mechanical Engineering
<b><u>„One-to-one mapping as a key factor in understanding the cardinality of sets among engineering students”</u></b>
15:25 – 15:50
<b>Aleksandar Milenković</b> , University of Kragujevac, Faculty of Science <b>Nemanja Vučićević</b> , University of Kragujevac, Faculty of Science
<b><u>„Using GeoGebra for Enhanced Visualization of Economic Functions”</u></b>
15:50 – 16:15
<b>Милан Грујин</b> , Школска управа Нови Сад <b>Божидар Р. Милановић</b> , Гимназија Младеновац
<b><u>„Курикулум математике у нашој земљи и окружењу“</u></b>
16:15 – 16:40
<b>Мирослав Младеновић</b> , ОШ „Б. Миленковић“, Шишава (у пензији)
<b><u>„Оцењивање ученика у настави математике (педагошка пракса)“</u></b>