

Programme of International Mathematical Conference
Analysis, Approximation, Applications (AAA2023)

21. 6. 2023. Room A	
16:00 – 17:45 h	Opening Ceremony and Special Session Dedicated to Professor Gradimir Milovanović Miodrag Spalević, Marija Stanić: The life path and scientific career of Academician professor Gradimir V. Milovanović Walter Gautschi: The Ramanujan integral and its derivatives: Computation and analysis
19:00 h	Welcome party (Restaurant Istra)
22. 6. 2023.	
Plenary Lecture (Room A) Chairperson: Miodrag Spalević	
9:30 – 10:15 h	Alexander Aptekarev: L^p bounds for orthogonal polynomials and applications
10:15 – 10:45 h	Coffee Break
10:45 – 13:00 h	Session Lectures (Room A, Room B, Room C)
13:00 – 15:00 h	Lunch Break
Plenary Lecture (Room A) Chairperson: Marija Stanić	
15:00 – 15:45 h	Walter Van Assche: Multiple orthogonal polynomials for special function weights
15:45 – 18:00 h	Session Lectures (Room A, Room B, Room C)
23. 6. 2023.	
Plenary Lecture (Room A) Chairperson: Vilmos Totik	
9:30 – 10:15 h	Francisco Jose Marcellán: Semiclassical orthogonal polynomials, Painlevé equations and applications to quadrature formulae
10:15 – 10:45 h	Coffee Break
10:45 – 13:00 h	Session Lectures (Room A, Room B, Room C)
13:00 – 15:00 h	Lunch Break
15:00 – 18:00 h	Excursion
20:00 h	Conference Dinner (Restaurant Istra)
24. 6. 2023.	
Plenary Lecture (Room A) Chairperson: Walter Van Assche	
9:30 – 10:15 h	Vilmos Totik: Polynomial inequalities
10:15 – 10:45 h	Coffee Break
10:45 – 12:30 h	Session Lectures (Room A, Room B, Room C)
12:30 – 13:00 h	Closing Ceremony

SESSION A

THURSDAY 22.06.2023.

10.45 - 13.00 (Room A)

Chairperson: Miodrag Spalević

10.45-11.05	Davorka Jandrić	Error estimates for Gaussian quadrature formulae
11.05-11.25	Rada Mutavdžić Đukić	On internality of generalized averaged Gaussian quadrature rules and their truncations
11.25-11.45	Jelena Tomanović	Gauss-type quadrature rules for variable-sign weight functions
11.45-12.05	Miroslav Pranić	Gauss-like quadrature through manipulations with Jacobi matrices

15.45 - 18.00 (Room A)

Chairperson: Miroslav Pranić

15.45-16.05	Mikhail Tyaglov	Binomial orthogonal polynomials
16.05-16.25	Nevena Vasović	Some modifications of the Chebyshev measure and the corresponding orthogonal polynomials
16.25-16.45	Dmitrii Karp	Summation of certain series containing the digamma function
16.45-17.05	Ivana Ilić	Comparison of the tail thickness estimators under GARCH using the extremal exchange rate changes

FRIDAY 23.06.2023.

10.45 - 13.00 (Room A)

Chairperson: Mališa Žižović

10.45-11.05	Yılmaz Şimşek	Formulas for sum of powers of consecutive integers derive from certain family of finite sums involving higher powers of (inverse) binomial coefficients
11.05-11.25	Beyza Çetin	Boubaker collocation method to solve the single degree of freedom system
11.25-11.45	Alexander Dyachenko	On perfectness of systems of weights satisfying Pearson's equation with nonstandard parameters
11.45-12.05	Vladimir Lysov	On the Christoffel-Darboux formula for multilevel interpolations
12.05-12.25	Diego Ruiz-Antolin	Computation of the complex zeros of the parabolic cylinder function $U(a, w)$

SATURDAY 24.06.2023.

10.45 - 13.00 (Room A)

Chairperson: Yılmaz Şimşek

10.45-11.05	Bratislav Sredojević	Numerical approximation of the third initial-boundary-value parabolic problem
11.05-11.25	Zorica Milovanović Jeknić	Numerical analysis of hyperbolic transmission problem on disjoint intervals
11.25-11.45	Tatjana Tomović Mladenović	Optimal set of quadrature rules for trigonometric polynomials with preassigned nodes
11.45-12.05	Nevena Petrović	The set of anti-Gaussian quadrature rules and corresponding multiple orthogonal polynomials
12.05-12.25	Aleksandra Milosavljević	Anti-Gaussian quadrature rules related to orthogonality on the semicircle

SESSION B

THURSDAY 22.06.2023.

10.45 - 13.00 (Room B)

Chairperson: Ljubiša Kočinac

10.45-11.15	Ekrem Savaş	On almost sequence spaces defined by infinite matrix
11.15-11.35	Stefan Ivković	Hypercyclic operators on non-unital C^*-algebras
11.35-11.55	Javid Ali	Fixed point algorithms: convergence, stability and data dependence results
11.55-12.15	Slaviša Đorđević	Isolated points of the extended spectrum of a linear relation
12.15-12.35	Dragana Cvetković Ilić	Completion of operator matrices and some interesting applications

15.45 - 18.00 (Room B)

Chairperson: Miloš Arsenović

15.45-16.05	Vladimir Rakočević	W-distance
16.05-16.25	Suzana Aleksić	Dynamical sampling for shift-preserving operators acting on finitely generated shift-invariant subspaces of Sobolev spaces
16.25-16.45	Milica Kolundžija	The subsequences of a power sequence in a Banach algebra
16.45-17.05	Marija Cvetković	Different approaches in the study of φ-contraction
17.05-17.25	Radoš Bakić	On a monomial decomposition of a complex polynomial
17.25-17.45	Ljubiša Kočinac	On generalized metric properties of the hyperspace $\mathcal{F}(X)$

FRIDAY 23.06.2023.

10.45 - 13.00 (Room B)

Chairperson: Ekrem Savaş

10.45-11.15	Martin Bohner	The Beverton-Holt equation
11.15-11.35	Đorđe Krtinić	Asymptotical behavior of solutions of Emden-Fowler equation
11.35-11.55	Sidheshwar Bellale	Existence of approximating solution of second order nonlinear integro-differential equations via iteration method
11.55-12.15	Nikola Mutavdžić	Lipschitz continuity for harmonic functions and solutions of the $\bar{\alpha}$-Poisson equation
12.15-12.35	Jelena Gajić	A series expansion of separately (α, β)-harmonic function in the unit polydisc
12.35-12.55	Miloš Arsenović	H^p theory for separately (α, β)-harmonic functions

SATURDAY 24.06.2023.

10.45 - 13.00 (Room B)

Chairperson: Martin Bohner

10.45-11.05	Dragan Đurčić, Danica Fatić	The classical Karamata's theory of regular variability and the index function operator
11.05-11.25	Ivana Stanišev	Further results on (b, c)-inverses
11.25-11.45	Jelena Višnjic	On reverse and forward order laws for the (b, c)-inverse in rings
11.45-12.05	Abdelmejid Bayad	Relations for Bernoulli-Barnes numbers and Barnes zeta functions

SESSION C

THURSDAY 22.06.2023.

10.45 - 13.00 (Room C)

Chairperson: Miroslav Ćirić

10.45-11.05	Žarko Mijajlović	Partitions and automorphisms of finite Kurepa trees
11.05-11.25	Marjan Matejić	On a linear combination of topological indices of graphs
11.25-11.45	Stefan Panić	Repair time threshold for maintenance activities planning
11.45-12.05	Miloljub Albijanić	Presentation of characteristic models for defining weight coefficients of criteria in multi-criteria analysis
12.05-12.25	Mališa Žižović	Two multiplicative methods of multicriteria analysis
12.25-12.45	Đorđe Krtinić	Landau and Grüss type inequalities for inner product type integral transformers in norm ideals

15.45 - 18.00 (Room C)

Chairperson: Predrag Stanimirović

15.45-16.05	Miloš Bogdanović	SRBerta - BERT transformer language model for Serbian legal texts
16.05-16.25	Nada Damljanović	Linguistic representation models
16.25-16.45	Miodrag Đorđević	Parameter estimation of the combined SDLINAR model of order p and further sideways
16.45-17.05	Jelena Matejić	Computing ε-weak bisimulations for fuzzy automata over truncated product structures: algorithms and complexity analysis
17.05-17.25	Jelena Jankov	Optimal design of Kirchhoff-Love plates under the low-contrast assumption

FRIDAY 23.06.2023.

10.45 - 13.00 (Room C)

Chairperson: Miodrag Đorđević

10.45-11.05	Aleksandar Nastić	Integer-valued autoregressive process in random environment
11.05-11.25	Miroslav Ćirić	Fuzzy and rough approximations
11.25-11.45	Predrag Stanimirović	Compound step-size methods in unconstrained nonlinear optimization
11.45-12.05	Jelena Ignjatović	Idempotent-aided factorizations of matrices over a field
12.05-12.25	Marko Petković	Gradient neural dynamics for solving system of matrix equations and their applications

SATURDAY 24.06.2023.

10.45 - 13.00 (Room C)

Chairperson: Đorđe Krtinić

10.45-11.05	Dragan Đorđević	Double stochastic operators on L^1
11.05-11.25	Martin Ljubenović	Linear preservers of the extended majorization relations on $\ell^p(I)$
11.25-11.45	Ivan Arandžević	On reverse triangle inequality and some its applications
11.45-12.05	Jurica Perić	Generalization of the Levin-Stečkin inequality
12.05-12.25	Mirjana Dimitrijević	The essentially left and right generalized Drazin invertible operators and generalized Saphar decomposition