

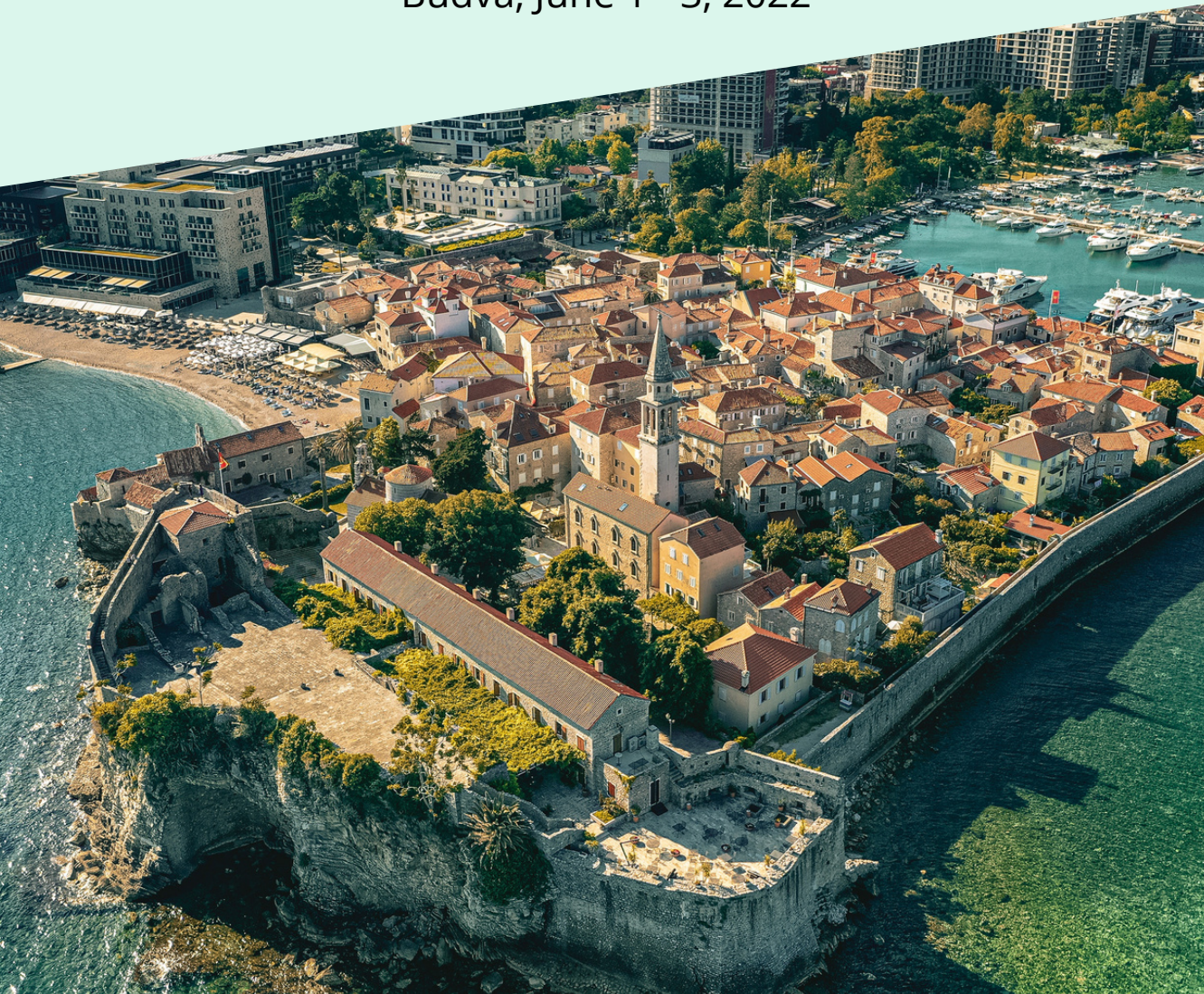
International conference

Mathematics, Numerics and Applications

Program



Budva, June 1 - 3, 2022



MNA 2022 Conference program

1st day – Wednesday, June 1st	
09:00–10:00	Reception
LOCATION	Main hall of hotel Slovenska plaža
10:00–10:45	Opening Ceremony
CHAIRS	Miroslav Pranić and Aleksandar Pejčev
LOCATION	Main conference room of hotel Slovenska plaža
10:00–10:15	Jelena Tomanović, Aleksandar Pejčev (Faculty of Mechanical Engineering, University of Belgrade, Serbia)
	<i>Opening ceremony talk</i>
10:15–10:45	Miodrag M. Spalević (Faculty of Mechanical Engineering, University of Belgrade, Serbia)
	<i>How to estimate error in Gaussian quadrature</i>
10:45–11:15	Coffee Break
11:15–13:30	Session A1
CHAIR	Davorka Jandrić
LOCATION	Main conference room of hotel Slovenska plaža
11:15–12:00	Gradimir V. Milovanović (Serbian Academy of Sciences and Arts, Serbia)
	Plenary talk (online) <i>Construction of Power Orthogonal Polynomials: Doors for Gaussian Quadrature Formulas With Multiple Nodes</i>
12:00–12:30	Dušan Djukić (online) (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>Some properties of orthogonal polynomials with respect to the Abel weight</i>
12:30–13:00	Aleksandar Sedmak (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>Computational fracture mechanics</i>
13:00–13:30	Davorka R. Jandrić (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>Numerical evaluation of the error term in Gaussian quadrature with the Legendre weight function</i>
13:30–15:00	Lunch Break

2nd day – Thursday, June 2nd

09:00–11:15 Session B1
CHAIR Miodrag M. Spalević

LOCATION (Main conference room of hotel Slovenska plaža)

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| 09:00–09:30 | Aleksandar Pejčev
(Faculty of Mechanical Engineering, University of Belgrade, Serbia)
<i>On the Gauss-Kronrod quadrature formula for
a modified weight function of Chebyshev type</i> |
| 09:30–10:15 | Miroslav Pranić
(Faculty of Science, University of Banja Luka, Bosnia and Herzegovina)
Plenary talk
<i>Gauss-type quadrature with multiple nodes</i> |
| 10:15–10:45 | Filip Marić
(Faculty of Mathematics, University of Belgrade, Serbia)
<i>Verified simplex algorithm and its applications</i> |
| 10:45–11:15 | Stefan Spalević
(Faculty of Electrical Engineering, University of Belgrade, Serbia)
<i>Hierarchical Protein Function Prediction with Tail-GNNs</i> |
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11:15–11:45 Coffee Break

11:45–14:00 Session B2
CHAIR Davorka Jandrić

LOCATION Main conference room of hotel Slovenska plaža

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| 11:45–12:30 | Ramón Orive
(Universidad de La Laguna, Spain)

Plenary talk (online)
<i>Gauss-type cubature formulas for
the Gaussian weight. Applications</i> |
| 12:30–13:00 | Aleksandar Tomović (online)
(Faculty of Mechanical Engineering, University of Belgrade, Serbia)
<i>Influence of boundary conditions on natural frequencies of axially functionally
graded Euler-Bernoulli cantilever beam with attached rigid body at the free end</i> |
| 13:00–13:30 | Andrija Petrović (online)
(Singidunum University, Serbia)
<i>Gaussian Conditional Random Fields for Classification</i> |
| 13:30–14:00 | Lidija Krstanović
(Faculty of Technical Sciences, University of Novi Sad, Serbia)
<i>The digital processing of medical image based on different types of metrics</i> |
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| 14:00–15:00 | Lunch Break |
| 20:00 | Conference gala Dinner |
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3rd day – Friday, June 3rd

09:00–11:15	Session C1
CHAIR	Miodrag M. Spalević
LOCATION	Main conference room of hotel Slovenska plaža
09:00–09:30	Luka Miličić (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>Overview of numerical methods for solving optimal control problem in guidance algorithms</i>
09:30–10:15	Lothar Reichel (Department of Mathematical Sciences Kent State University, Ohio) Plenary talk <i>Spalević quadrature rules and applications in numerical linear algebra</i>
10:15–10:45	Nevena M. Vasović (Faculty of Hotel Management and Tourism in Vrnjačka Banja, University of Kragujevac) <i>Generalized Gauss-Rys Quadrature Formulas: Old and New Results</i>
10:45–11:15	Nikola Mutavdžić (Mathematical institute SANU) <i>On Lipschitz continuity and smoothness up to the boundary of solutions of hyperbolic Poisson's equations</i>
11:15–11:45	Coffee Break
11:45–13:45	Session C2
CHAIR	Rada Mutavdžić Djukic
LOCATION	Main conference room of hotel Slovenska plaža
11:45–12:15	Rada Mutavdžić Djukic (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>Weighted averaged Gaussian quadrature rules for modified Chebyshev measure</i>
12:15–12:45	Jelena Tomanović (Faculty of Mechanical Engineering, University of Belgrade, Serbia) <i>Gauss-type quadrature rules with respect to the external zeros of the integrand</i>
12:45–13:15	Vladimir Kuzmanović (Faculty of Mathematics, University of Belgrade) <i>3-axis Inertial Measurement Unit calibration using least squares approximation</i>
13:15–13:45	Zorica Milovanović Jeknić (Faculty of Construction Management, University Union-Nikola Tesla) <i>Convergence of a finite difference scheme for mixed parabolic-hyperbolic transmission problem</i>
13:45–15:00	Lunch Break