



MASSEE

7th International Congress on Mathematics

7th MICOM 2026

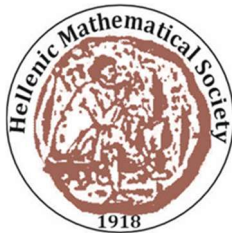
April 24 -26, 2026, Thessaloniki, Greece

THE PROGRAM

Organizers



**Mathematical Society of
South-Eastern Europe**



**Hellenic Mathematical Society
in cooperation with
The Branch of Central Macedonia**

and



**The Department of Mathematics,
Aristotle University of Thessaloniki**

PROGRAM

Friday, April 24, 2026

	Convention Center “Nikolaos Germanos” Egnatia 154, Thessaloniki ROOM A
9.00 – 9.30	Reception and registration
	OPENING CEREMONY Chair: A. Fellouris, A. Fylakis
9.30 – 10.00	Opening Remarks
	OPENING OF SCIENTIFIC PROGRAM Chair: Anargyros Fellouris, A. Fylakis
10.00 -10.40	First plenary talk Muharem Avdispahic <i>Professor, University of Sarajevo University</i> “Huber’s constant via Selberg’s trace formula”
10.40 -11.20	Coffee break Chair: Romanos Malikiosis
11.20 -12.00	Second plenary talk Chrysostomos Psaroudakis <i>Associate Professor, Aristotle University of Thessaloniki</i> “Homological Invariants – An Intrinsic Approach”
	Break

Friday, April 24, 2026	Convention Center “Nikolaos Germanos” Room B	Convention Center “Nikolaos Germanos” Room C	
	Chair: Sotirios Sabanis	Chair: Nikolaos Athanasiou	
12.10 -14.10	<p align="center">WORKSHOP</p> <p>"SDEs: Theory, Numerics and their interplay with Machine Learning"</p> <p align="center">Organizer: Sotirios Sabanis, Co-organizer: Iosif Lytras</p> <p align="center">Presentations</p> <p>Professor, Thomas Müller-Gronbach, <i>University of Passau, Germany</i></p> <p>As. Professor, Nikolaos Kolliopoulos, <i>Cyprus University</i></p> <p>Dr Tim Johnston Ceremade - Université Paris Dauphine</p> <p>Dr Larisa Yaroslavtseva <i>University of Graz, Austria</i></p> <p>Dr Miklos Rasonyi <i>Alfred Renyi Institute of Mathematics,</i> <i>Hungary</i></p> <p>PHD candidate, Nikolaos Makras, <i>Edinburg University</i></p>	12.10 -12.30	<p><u>Ljubica Djurovic,</u> Maja Dabic, Nenad Stojanovic <i>University of Kragujevac</i> “Decision making algorithms based on interval-valued fuzzy soft sets</p>
		12.30 -12.50	<p>Sotiria Chatzimarkou <i>University of Patras</i> “Conformal limit for Nakajima quiver varieties”</p>
		12.50-13.10	<p>Kyriaki-Evangelia Aslani <i>University of the Peloponnese</i> “A multivector generator formulation of linear phase -plane dynamics”</p>
		13.10-13.30	<p>Jovana Nikolov Radenković <i>University of Nis</i> Solvability of Certain “Operator Equations in Hilbert C*-Modules”</p>
14.10-16.20	Break	Break	

Friday, April 24, 2026

	Room B Chair: Raptis Georgios	Room C Chair: Poulos Andreas
16.20-16.40	<p>Jelena Visnjic, Ivana Stanisec <i>Univ. of Nis- Univ. of Belgrade</i> “On (B, C)-invertibility of a unity in rings”</p>	<p><u>Theocharis Metzidakis</u>, Manolis Kritikos <i>Athens University of Economics and Business</i> “The multi-depot cumulative vehicle routing problem with time windows: Alternative formulations and computational insights”</p>
16.40-17.00	<p>Jovana Milenković <i>University of Nis</i> “Additivity of Moore-Penrose and group inverse”</p>	<p><u>Irma Ibrišimović</u>, Julija Ščekić & Damir Bajrić <i>Univ. of Tuzla, Univ. of Belgrade, High School Meša Selimović, Tuzla</i> “Algorithmic synthesis of spatial CT image segmentation and non-linear renal filtration modeling within a diagnostic expert system”</p>
17.00-17.20	<p>Parascovia Syrbu <i>Moldova State University</i> “On the universality of the identities of Bol-Moufang type”</p>	<p><u>Zorica Stanimirović</u>, Olivera Stančić, Stefan Mišković, Raca Todosijević <i>University of Belgrade, University of Kragujevac, University of Belgrade, Univ. Polytechnique Hauts-de-France</i> “The capacitated R-Allocation P-Hub maximal covering problem”</p>
17.20-17.40	<p>Deyan Dzhundrekov <i>Sofia University</i> “On invariants of polynomials in free associative algebras with an additional action”</p>	<p><u>Ivana Micić</u>, Zorana Jančić <i>University of Nis</i> “Clustering of fuzzy social networks using approximate regular fuzzy relations”</p>
17.40-18.00	<p><u>Arto Adili</u>, Adrian Naco <i>University of Korca, Polytechnic University of Tirana</i> “On the determination of the solution of the congruence $1 + x^2 \equiv 0 \pmod{p}$, for prime p of the forms $p = 4q + 1$, with q an odd prime</p>	<p>Milica Vucicevic – Nenad Stojanovic <i>University of Kragujevac</i> “A structural and algorithmic framework of neutrosophic hesitant fuzzy soft sets”</p>
18.00-18.30	Coffee break	Coffee break

Friday, April 24, 2026	Room B Chair: Galanopoulos Petros	Room C Chair: Demetres Christofides
18.30-18.50	<u>Sladana Dimitrijević</u>, Suzana Aleksić, Tatjana Tomović Mladenović <i>University of Kragujevac</i> “Positive solutions for a singular fractional boundary value problem with nonlocal integral condition”	<u>Ioannis Tzachristas</u>, Georgios Tzachristas <i>Technical University of Munich, National Technical University of Athens</i> “Proofing techniques in geometry using LLMs and GeoGebra: A case study of the triangle trisection theorem”
18.50-19.10	Marija Cvetkovic <i>University of Nis</i> “The Caristi Fixed Point Theorem and its generalizations”	Ioannis Rizos, Garyfalia Charitaki <i>University of Thessaly</i> “Argumentation and problem-solving strategies in partitive division mathematical tasks in early elementary school age students”
19.10-19.30	Ivana Djolović <i>University of Belgrade</i> “The class $(\ell_p, \ell_q)(1 < p, q < \infty)$ – real challenge or Sisyphus’s work”	Aikaterini Nikolidaki <i>PhD Candidate, 1st Model High School of Athens-Gennadeio</i> “Mathematics, Algorithms, and algorithmic game theory in upper secondary education: A Python-based approach”
19.30-19.50	Olivera Stančić, <u>Nemanja Vučićević</u> <i>University of Kragujevac</i> “On s-convex structures and their applications”	<u>Dimitra Remoundou</u>, Evgenios Avgerinos <i>University of the Aegean</i> “Exploring students’ understanding of slope across contexts”
19.50-20.10	Zora Golubovic <i>University of Belgrade</i> “Summability methods in the setting of Banach algebras”	Dimitrios Moustakas <i>Aristotle University of Thessaloniki</i> From teacher support to mathematics achievement: The mediating role of student emotions
20.10-20.30	Bogdan D. Djordjevic <i>Bulgarian Academy of Science</i> “Some summation techniques in Banach modules and non-Banach algebras”	<u>Ioannis Taris</u>, Dimitrios Moustakas <i>Aristotle University of Thessaloniki</i> “Teaching Mathematics in the AI era: A review of secondary teachers’ pedagogical integration of generative AI”

Saturday, April 25, 2026

	Room B Chair: Ioannis Tzachristas	Room C Chair: Theocharis Metzidakis
9.00-9.20	<p style="text-align: center;">Souldatos Athanasios <i>American Farm School, Thessaloniki, Greece</i></p> <p style="text-align: center;">“Maximal A^+ Toppers on a 10 x10 grid”</p>	<p style="text-align: center;"><u>Theodosios Papaloukas Dionisis,</u> Manolis Kritikos <i>Athens University of Economics and Business</i></p> <p style="text-align: center;">“Development Resilience During COVID-19: A PCA-Logistic Approach”</p>
9.20-9.40	<p style="text-align: center;"><u>Demetres Christofides,</u> Klas Markström, Christina Savvidou <i>UCLan Cyprus, Umea Universitet, UCLan Cyprus</i></p> <p style="text-align: center;">“Diameters of Random Cayley Graphs”</p>	<p style="text-align: center;"><u>Aleksandra B. Kapešić,</u> Jelena V. Manojlović <i>University of Nis,</i></p> <p style="text-align: center;">“Existence and asymptotic behavior of positive decreasing solutions of a cyclic sublinear difference system”</p>
9.40-10.00	<p style="text-align: center;"><u>Peter Boyvalenkoy,</u> Peter Dragnev <i>Bulgarian Academy of Science, Purdue University, USA</i></p> <p style="text-align: center;">“Energy of some T-avoiding codes in 48 dimensions”</p>	<p style="text-align: center;">Marko Pesovic <i>University of Belgrade</i></p> <p style="text-align: center;">“\mathcal{H}-posets induced by Graph associate polytopes”</p>
10.00-10.20	<p style="text-align: center;">Georgios Tzachristas <i>National Technical University of Athens</i></p> <p style="text-align: center;">“Probabilistic method in Olympiad Combinatorics”</p>	<p style="text-align: center;"><u>Žana Kovijanić Vukićević</u> <i>University of Montenegro</i></p> <p style="text-align: center;">“Inequalities between Wiener-type graph indices”</p>
	Chair: Athanasios Fylakis	
10.20-11.00	<p style="text-align: center;">Third plenary talk Prof. Ilias Kotsireas <i>CARGO Lab</i> <i>Waterloo, Ontario, Canada</i></p> <p style="text-align: center;">“Riemann Hypothesis”</p>	
11.00-11.30	Coffee break	Coffee break
	Chair: Hara Charalambous	
11.30-12.10	<p style="text-align: center;">Fourth plenary talk Dimitrios Ntalampekos <i>Aristotle University of Thessaloniki</i></p> <p style="text-align: center;">“Uniformization problems in the plane”</p>	

Saturday, April 25, 2026	Room B Chair: Fotiadis Anestis	Room C Chair: Georgios Tzachristas
12.10-12.30	<p><u>Nikolaos Athanasiou, Puskar Mondal, Shing-Tung Yau</u> <i>Aristotle University of Thessaloniki, Beijing Institute of Mathematical Sciences, Yau Center for Math Sciences</i> “The Einstein Vlasov system in a large data regime”</p>	<p><u>Aleksandar T. Lipkovski, Jana A. Lipkovski</u> <i>University of Belgrade, Institute for Advancement of Education, Belgrade</i> “Teaching geometry in Serbia: a critical approach”</p>
12.30-12.50	<p><u>Cristina Bujac, Artés J.C., Schlomiuk D., Nicolae Vulpe</u> <i>Moldova State University, Universitat Autònoma de Barcelona, Université de Montréal, Moldova State University</i> “Phase portraits of real quadratic differential systems possessing an invariant ellipse”</p>	<p><u>Sali Larisa, Cozma Dumitru</u> <i>Ion Creanga State Pedagogical University of Chisinau</i> “The role of metacognitive strategies in the acquisition of mathematical modeling competence”</p>
12.50-13.10	<p><u>Cristina Bujac, Nicolae Vulpe</u> <i>Moldova State University</i> “The class of Cubis differential systems possessing potential configurations of invariant straight lines of the type (3,2,1)”</p>	<p><u>Jelena Stevanić*, Aleksandar Milenković*, Zorana Lužanin</u> <i>University of Kragujevac, University of Kragujevac, University of Novi Sad</i> “Gender, difficulty and domain: Analyzing student performance in the mathematical kangaroo competition”</p>
13.10-13.30	<p><u>Cozma Dumitru</u> <i>Ion Creanga State Pedagogical University of Chisinau</i> “On the center-focus problem for planar polynomial differential systems with algebraic solutions”</p>	<p><u>Natalia Gecheva, Evgenia Sendova</u> <i>Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences</i> “Analysis and development of resources in support of STEaM centers”</p>
13.30-13.50	<p><u>Feride Qorrolli Lubishtani, Gjorgji Markoski, Aleksandar Gjurchinovski</u> <i>Univ. of Applied Sciences in Ferizaj, Ss. Cyril and Methodius University</i> “Delayed-feedback stabilization of equilibria in the fractional-order Rossler and Lorenz systems: A comparative Analysis”</p>	<p><u>Albena Vassileva, Emil Kolev, Evgenia Sendova</u> <i>Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences</i> “Doing Math research at school age- 25 years High School Institute of Mathematical and Informatics”</p>

13.50-14.10		Albena Vassileva <i>Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences</i> “Developing computational thinking and achieving educational goals in the context of a mathematical competition”
14.10-17.00	Break	Break

Saturday, April 25, 2026	Room B Chair: Pelekis Christos	Room C Chair: Maridakis Manousos
17.00-17.20	Alexandru Lazari <i>Moldova State University</i> “Criticality assessment in hidden Markov models with hierarchical emissions and final sequences of states”	Jasmina Dordevic <i>University od Nis</i> “Influence on time-change process on solution to reflected backward stochastic differential equations with Levy noises”
17.20-17.40	Jelena Jockovic, Bojana Todić <i>University of Belgrade</i> “Modeling discrete asynchronous spread of rumors using Markov chains”	Kyriaki Tsilika <i>University of Thessaly</i> “Latest advances in Mathematical Economics. A scoping review and bibliometric analysis”
17.40-18.00	Ivana Petrović <i>University of Nis</i> “Functional limit theorem for products of sums under Bernoulli thinning”	Aleksandar Balašev-Samarski, Abdol- Reza Mansouri <i>University of Sarajevo, Queen’s University, Canada</i> “The Malliavin-Stein method and independence: new results
18.00-18.20	Ana Merkle <i>University of Belgrade</i> “Causal predictability and stability for continuous martingales”	Tsvetomira A. Zlatkova <i>Sofia University “St. Kliment Ohridski”</i> “Statistical inference for branching processes with random migration
18.20-18.30	Closing Ceremony	
21.00-23.00	Official Dinner	

Sunday, April 26, 2026

9.30-12.30	Optional excursion. Bus tour of the old city and museums of Thessaloniki
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