



**MASSEE**  
**7<sup>th</sup> International Congress on Mathematics**  
**7<sup>th</sup> MICOM 2026**  
**April 24 –26, 2026, Thessaloniki, Greece**

**THE PROGRAM**

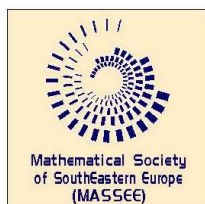
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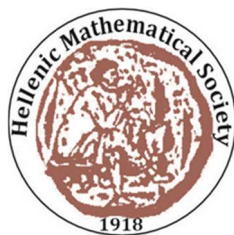
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**16<sup>th</sup> International Week**  
**Dedicated to Maths 2026**

## 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**

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

Friday, April 24, 2026	Convention Center “Nikolaos Germanos” Room B	Convention Center “Nikolaos Germanos” Room C	
	<b>Chair: Sotirios Sabanis</b>	<b>Chair: Nikolaos Athanasiou</b>	
12.10 -14.10	<b>WORKSHOP</b> "SDEs: Theory, Numerics and their interplay with Machine Learning" <b>Organizer: Sotirios Sabanis,</b> <b>Co-organizer: Iosif Lytras</b>	12.10 -12.30	<b>Ljubica Djurovic, Maja Dabic, Nenad Stojanovic</b> <i>University of Kragujevac</i> “Decision making algorithms based on interval-valued fuzzy soft sets”
	<b>Presentations</b> <b>Tim Johnston</b> <i>Ceremade - Université Paris Dauphine</i> “Numerical Methods for Singular SDEs”	12.30 -12.50	<b>Sotiria Chatzimarkou</b> <i>University of Patras</i> “Conformal limit for Nakajima quiver varieties”
	<b>Nikolaos Kolliopoulos</b> <i>Cyprus University</i> “Extreme Value Theory for Mean-Field Systems: Past results and recent developments”	12.50-13.10	<b>Kyriaki-Evangelia Aslani</b> <i>University of the Peloponnese</i> “A multivector generator formulation of linear phase-plane dynamics”
	<b>Iosif Lytras</b> “ <i>Archimedes/ Athena Research Centre and National Technical University of Athens</i> ” Error estimates for tamed Euler and Randomized schemes beyond Lipschitz continuity with applications to non-convex sampling and optimization.	13.10-13.30	<b>Jovana Nikolov Radenković</b> <i>University of Nis</i> “Solvability of Certain Operator Equations in Hilbert C*-Modules”
<b>14.10-16.20</b>	<b>Break</b>	<b>Break</b>	

## Friday, April 24, 2026

	Room B	Room C
	<b>Chair: Georgios Raptis</b>	<b>Chair: Andreas Poulos</b>
16.20-16.40	<p><b>Jelena Visnjic, Ivana Stanisec</b>  <i>Univ. of Nis- Univ. of Belgrade</i>                      “On (B, C)-invertibility of a unity in rings”</p>	<p><b><u>Irma Ibrišimović, Julija Ščekić &amp; Damir Bajrić</u></b>  <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>
16.40-17.00	<p><b>Jovana Milenković</b>  <i>University of Nis</i>                      “Additivity of Moore-Penrose and group inverse”</p>	<p><b><u>Zorica Stanimirović, Olivera Stančić, Stefan Mišković, Raca Todosijević</u></b>  <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>
17.00-17.20	<p><b>Parascovia Syrbu</b>  <i>Moldova State University</i>                      “On the universality of the identities of Bol-Moufang type”</p>	<p><b><u>Ivana Micić, Zorana Jančić</u></b>  <i>University of Nis</i>                      “Clustering of fuzzy social networks using approximate regular fuzzy relations</p>
17.20-17.40	<p><b>Deyan Dhzundrekov</b>  <i>Sofia University</i>                      “On invariants of polynomials in free associative algebras with an additional action”</p>	<p><b>Milica Vucicevic – Nenad Stojanovic</b>  <i>University of Kragujevac</i>                      “A structural and algorithmic framework of neutrosophic hesitant fuzzy soft sets”</p>
17.40-18.00	<p><b><u>Arto Adili, Adrian Naco</u></b>  <i>University of Korca, Polytechnic University of Tirana</i>                      “On the determination of the solution of the congruence <math>1 + x^2 \equiv 0 \pmod{p}</math>, for prime <math>p</math> of the forms <math>p = 4q + 1</math>, with <math>q</math> an odd prime</p>	
18.00-18.30	Coffee break	Coffee break

Friday, April 24, 2026	Room B	Room C
	<b>Chair: Petros Galanopoulos</b>	<b>Chair: Georgios Tzachristas</b>
18.30-18.50	<b><u>Sladjana Dimitrijević</u>, Suzana Aleksić, Tatjana Tomović Mladenović</b> <i>University of Kragujevac</i> “Positive solutions for a singular fractional boundary value problem with nonlocal integral condition”	<b><u>Ioannis Tzachristas</u>, Georgios Tzachristas</b> <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	<b>Marija Cvetkovic</b> <i>University of Nis</i> “The Caristi Fixed Point Theorem and its generalizations”	<b>Ioannis Rizos, Garyfalia Charitaki</b> <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	<b>Ivana Djolović</b> <i>University of Belgrade</i> “The class $(\ell_p, \ell_q)$ ( $1 < p, q < \infty$ ) – real challenge or Sisyphus’s work”	<b>Aikaterini Nikolidaki</b> <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	<b>Olivera Stančić, Nemanja Vučićević</b> <i>University of Kragujevac</i> “On s-convex structures and their applications”	<b><u>Dimitra Remoundou</u>, Evgenios Avgerinos</b> <i>University of the Aegean</i> “Exploring students’ understanding of slope across contexts”
19.50-20.10	<b>Zora Golubovic</b> <i>University of Belgrade</i> “Summability methods in the setting of Banach algebras”	<b>Dimitrios Moustakas</b> <i>Aristotle University of Thessaloniki</i> “From teacher support to mathematics achievement: The mediating role of student emotions”
20.10-20.30	<b>Bogdan D. Djordjevic</b> <i>Bulgarian Academy of Science</i> “Some summation techniques in Banach modules and non-Banach algebras”	<b><u>Ioannis Taris</u>, Dimitrios Moustakas</b> <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	Room C
	<b>Chair: Ioannis Tzachristas</b>	<b>Chair: Demetres Christofides</b>
9.00-9.20	<b>Souldatos Athanasios</b> <i>American Farm School, Thessaloniki</i> “Maximal_A+ Toppers on a 10 x10 grid”	<b><u>Theodosios Papaloukas Dionisis, Manolis Kritikos</u></b> <i>Athens Univ. of Economics and Business</i> “Development Resilience During COVID-19: A PCA-Logistic Approach”
9.20-9.40	<b><u>Demetres Christofides, Klas Markström, Christina Savvidou</u></b> <i>UCLan Cyprus, Umea Universitet, UCLan Cyprus</i> “Diameters of Random Cayley Graphs”	<b><u>Aleksandra B. Kapešić, Jelena V. Manojlović</u></b> <i>University of Nis,</i> “Existence and asymptotic behavior of positive decreasing solutions of a cyclic sublinear difference system”
9.40-10.00	<b><u>Peter Boyvalenkov, Peter Dragnev</u></b> <i>Bulgarian Academy of Sciences, Purdue University, USA</i> “Energy of some T-avoiding codes in 48 dimensions”	<b>Marko Pesovic</b> <i>University of Belgrade</i> “ $\mathcal{H}$ -posets induced by Graph associate polytopes”
10.00-10.20	<b>Georgios Tzachristas</b> <i>National Technical University of Athens</i> “Probabilistic method in Olympiad Combinatorics”	<b>Žana Kovijanić Vukićević</b> <i>University of Montenegro</i> “Inequalities between Wiener-type graph indices”
10.20-10.40	<b>Albena Vassileva</b> <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”	<b><u>Theocharis Metzidakis, Manolis Kritikos</u></b> <i>Athens Univ. of Economics &amp; Business</i> “The multi-depot cumulative vehicle routing problem with time windows: Alternative formulations and computational insights”
10.45-11.30	<b>Coffee break</b>	<b>Coffee break</b>
	<b>Chair: Hara Charalambous</b>	
11.30-12.10	<b>Fourth plenary talk</b> <b>Dimitrios Ntalampekos</b> <i>Aristotle University of Thessaloniki</i> “Uniformization problems in the plane”	

Saturday, April 25, 2026	Room B	Room C
	<b>Chair: Anestis Fotiadis</b>	<b>Chair: Theocharis Metzidakis</b>
12.10-12.30	<p><b><u>Nikolaos Athanasiou</u>, Puskar Mondal, Shing-Tung Yau</b>  <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><b><u>Aleksandar T. Lipkovski</u>, Jana A. Lipkovski</b>  <i>University of Belgrade, Institute for Advancement of Education, Belgrade</i>            “Teaching geometry in Serbia: a critical approach”</p>
12.30-12.50	<p><b><u>Cristina Bujac</u>, Artés J.C., Schlomiuk D., Nicolae Vulpe</b>  <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><b><u>Sali Larisa</u>, Cozma Dumitru</b>  <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><b><u>Cristina Bujac</u>, Nicolae Vulpe</b>  <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><b><u>Jelena Stevanić*</u>, Aleksandar Milenković*, Zorana Lužanin</b>  <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><b>Cozma Dumitru</b>  <i>Ion Creanga State Pedagogical University of Chisinau</i>            “On the center-focus problem for planar polynomial differential systems with algebraic solutions”</p>	<p><b><u>Natalia Gecheva</u>, <u>Evgenia Sendova</u></b>  <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><b><u>Feride Qorrolli Lubishtani</u>, Gjorgji Markoski, Aleksandar Gjurchinovski</b>  <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><b><u>Albena Vassileva</u>, Emil Kolev, Evgenia Sendova</b>  <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>
		”
<b>13.50-17.00</b>	Break	Break

<b>Saturday, April 25, 2026</b>	<b>Room B</b>	<b>Room C</b>
	<b>Chair: Christos Pelekis</b>	<b>Chair: Manousos Maridakis</b>
17.00-17.20	<b>Alexandru Lazari</b> <i>Moldova State University</i> “Criticality assessment in hidden Markov models with hierarchical emissions and final sequences of states”	<b>Jasmina Dordevic</b> <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	<b>Jelena Jockovic, Bojana Todić</b> <i>University of Belgrade</i> “Modeling discrete asynchronous spread of rumors using Markov chains”	<b>Kyriaki Tsilika</b> <i>University of Thessaly</i> “Latest advances in Mathematical Economics. A scoping review and bibliometric analysis”
17.40-18.00	<b>Ivana Petrović</b> <i>University of Nis</i> “Functional limit theorem for products of sums under Bernoulli thinning”	<b>Aleksandar Balašev-Samarski, Abdol-Reza Mansouri</b> <i>University of Sarajevo, Queen’s University, Canada</i> “The Malliavin-Stein method and independence: new results”
18.00-18.20	<b>Ana Merkle</b> <i>University of Belgrade</i> “Causal predictability and stability for continuous martingales”	<b>Tsvetomira A. Zlatkova</b> <i>Sofia University “St. Kliment Ohridski”</i> “Statistical inference for branching processes with random migration”
18.30-18.45	<b>Closing Ceremony</b>	
21.00-23.00	<b>Official Dinner</b>	

## Sunday, April 26, 2026

9.30-12.30	<b>Optional excursion. Bus tour of the old city and museums of Thessaloniki</b>
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