# MICOPAM 2026 – Conference Program Schedule

## The 9th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas

## Antalya-TÜRKİYE, November 5–8, 2026

**Conference Venue**

**Sherwood Dreams Resort Hotel (Ultra All Inclusive), Antalya, TÜRKİYE**

**Important Notes**

- **The Conference will be held as a hybrid event, including both physical and online presentations.**
- **Time zone for the conference is GTM +3 (İstanbul time).**
- **The Hall 1-2-3 represents the physical rooms in the conference venue.**
- **The Virtual Hall represents the class opened in the platform used for online presentations.**
- **The talks of the invited speakers will also be available in the Virtual Hall for online participants to follow them.**

## November 05, 2026 (Thursday)

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| **10:00 – 12:30** | **Registration** | |
| | **Parallel Sessions** | |
| | **Hall 1**<br>**Chairman: Mateja Đumić** | **Hall 2**<br>**Chairman: N. Ugur Kockal** |
| **10:20 – 10:40** | **Speaker: Ryotaro Okazaki**<br>**Title of Talk:** On the Height of Certain Cyclotomic Units | **Speaker: Youssef El Khatib**<br>**Title of Talk:** The Regularization Path of a Two-Asset Minimum-Variance Portfolio with Entropy-Based Diversification Control |
| **10:40 – 11:00** | **Speaker: Taiga Kadowaki**<br>**Title of Talk:** Stochastic Modeling of Vascular Plaque Dynamics and Optimization of Targeted Drug Delivery | **Speaker: Ahmed Al-Rawashdeh**<br>**Title of Talk:** Invariant General Linear Group Properties for Unital C∗-Algebras |
| **11:00 – 11:20** | **Speaker: Haruka Suga**<br>**Title of Talk:** Mathematical Modeling of Retrograde Flow in Y-Shaped Arterial Stenoses: Implications for Catheter-Based Drug Delivery | **Speaker: Mohamed Ali Hajji**<br>**Title of Talk:** A New Explicit Wavelet-Based Multistep Method for Ordinary Differential Equations |
| **11:20-11:30** | **Coffee Break** | |
| | **Invited Talks** | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman: Aleksandar Pejčev** | |
| **11:30 – 12:00** | **Invited Speaker: Mihaela Ribičić Penava**<br>**Title of Talk:** Weighted Montgomery identity with applications | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman: Łukasz Kiszkowiak** | |
| **12:00 – 12:30** | **Invited Speaker: Niyazi Ugur Kockal**<br>**Title of Talk:** Mathematical Modeling of Implant–Bone Interaction: A Simplified Approach for Damage and Remodeling Analysis | |

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| **12:30 –14:00** | **Lunch Break** | | |
| **14:00 – 14:30** | **Opening Ceremony**<br>**Hall 1 + Virtual Hall (Online)**<br>**Yilmaz Simsek**<br>**Talk:** Recent advanced on Dedekind sums and their applications | | |
| **14:30-14:40** | **Coffee Break** | | |
| | **Invited Talks** | | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman: Miodrag M. Spalević** | | |
| **14:40 – 15:10** | **Invited Speaker: Dora Pokaz**<br>**Title of Talk:** Hardy-type inequalities via Lidstone interpolation: convexity, mean value theorems and Stolarsky means | | |
| **15:10-15:20** | **Coffee Break** | | |
| | **Invited Talks** | | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman: İsmail Naci Cangül** | | |
| **15:20 – 15:50** | **Invited Speaker: Ahmet Sinan Cevik**<br>**Title of Talk:** Some families of graphs with equal metric-based dimensions | | |
| | **Parallel Sessions** | | |
| | **Hall 1**<br>**Chairman: Ryotaro Okazaki** | **Hall 2**<br>**Chairman: Neslihan Kilar** | **Virtual Hall (Online)**<br>**Chairman: Elif Sukruoglu** |
| **15:50 – 16:10** | **Speaker: Olalekan Taofeek Wahab**<br>**Title of Talk:** Fixed Point Results for Condensed RRC-Type Maps under Superlinear Exponents | **Speaker: Musawa Yahya Almusawa**<br>**Title of Talk:** Different kinds of soliton solutions to the special Korteweg–De Vries equation with a stability analysis, and modulation instability | **Speaker: Ahmed Ibrahim Hayder**<br>**Title of Talk:** A practical efficacy study of optimal feedback-adaptive temporal membership function design and implementation |
| **16:10 – 16:30** | **Speaker: İsmail Alperen Öğüt**<br>**Title of Talk:** Skew cohomology of singly connected posets | **Speaker: Mateja Đumić**<br>**Title of Talk:** Evolving dispatching rules for unrelated parallel machine scheduling problems with resources | **Speaker: Melis Oyku Hazar**<br>**Title of Talk:** Mathematical Observations on conversion of sentences from active voice to passive voice |
| **16:30 – 16:50** | **Speaker: Simge Yilmaz**<br>**Title of Talk:** Charlier Collocation Method to Solve a Single Degree of Freedom System | **Speaker: Vicente Casares-Giner**<br>**Title of Talk:** On the Permission Probability in Multi Packet Reception with Imperfect Channels | **Speaker: Elif Beril Seyitoglu**<br>**Title of Talk:** A note on the sums of the triangular numbers |
| **16:50-17:10** | **Coffee Break** | | |

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| | **Parallel Sessions** | |
| | **Hall 1**<br>**Chairman: Alina-Daniela Vilcu** | **Virtual Hall (Online)**<br>**Chairman: Elif Sukruoglu** |
| **17:10 – 17:30** | **Speaker: A. Cigdem Ozcan Cevik**<br>**Title of Talk:** Idealization of a Truss by a Module | **Speaker: Jiehua Zhu**<br>**Title of Talk:** $l_1$–$l_0$ Regularization and NADA Hard-Thresholding for CT Image Reconstruction |
| **17:30 – 17:50** | **Speaker: Łukasz Kiszkowiak**<br>**Title of Talk:** Time-decay estimate of the initial value probelm in hyperbolic thermoelasticity theory | **Speaker: Ivana Vojnović**<br>**Title of Talk:** Microlocal defect functionals and wave-front sets |
| **17:50 – 18:10** | **Speaker: Damla Gun**<br>**Title of Talk:** A note on Fourier series of fractional exponential spline with their applications | **Speaker: TBA**<br>**Title of Talk:** TBA |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman: Elif Sukruoglu** | |
| **18:10 – 18:30** | **Speaker: William Craig**<br>**Title of Talk:** Recent developments on quasimodular forms and q-multiple zeta values | |
| **18:30** | **Dinner** | |
| **November 06, 2026 (Friday)** | | |
| **10:00 – 12:30** | **Registration** | |
| | **Parallel Sessions** | |
| | **Hall 1**<br>**Chairman: Yilmaz Simsek** | **Hall 2 (Poster)**<br>**Chairman: Stefan M. Spalević** |
| **10:00 – 10:20** | **Speaker: Miodrag M. Spalević**<br>**Title of Talk:** Asymptotic estimates of the remainder term of averaged Gaussian quadrature rules with Bernstein-Szegö weights | **Speaker: Alina-Emilia Iosif**<br>**Title of Talk:** Generalizations of classic inequalities for Birkhoff weak integrable multifunctions |
| **10:20 – 10:40** | **Speaker: Stefan M. Spalević**<br>**Title of Talk:** Numerical construction and internality of certain NAG quadratures | **Speaker: Alina-Daniela Vilcu**<br>**Title of Talk:** A geometric rigidity result for Cobb-Douglas production models with variable exponents |
| **10:40 – 11:00** | **Speaker: Aleksandar Pejčev**<br>**Title of Talk:** Quadratures of Clenshaw-Curtis type for functions analytic on ellipses | **Speaker: Ariana Pitea**<br>**Title of Talk:** A study on some quasimetric families |
| **11:00-11:20** | **Coffee Break** | |
| | **Parallel Sessions** | |
| | **Hall 1**<br>**Chairman: Ahmet Sinan Cevik** | **Hall 2**<br>**Chairman: Elvan Akın** |
| **11:20 – 11:40** | **Speaker: İsmail Naci Cangül**<br>**Title of Talk:** The Number of Realizations of Degree Sequences | **Speaker: Havva Nur Deveci**<br>**Title of Talk:** Adjacency Dimension on Annihilator Graphs |
| **11:40 – 12:00** | **Speaker: Irem Kucukoglu**<br>**Title of Talk**: Re-expressing some special behaviors of structural members with the aid of Rodrigues' formula for orthogonal polynomials | **Speaker: Selime Aleyna Seçkin**<br>**Title of Talk:** The Effect of Centering About Persons on Spectral Clustering : An Application to Multidimensional Profile Data |

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| **12:00 – 12:20** | **Speaker: Elif Sukruoglu**<br>**Title of Talk:** Relations between Apostol–Euler and Apostol–Genocchi polynomials via Nörlund sum | **Speaker: Serpil Cıkıt**<br>**Title of Talk:** A High Order Finite Difference Method for Solving Fractional Diffusion Equation |
| **12:20 – 12:40** | **Speaker: Zelal Temel**<br>**Title of Talk:** Observations on Numerical Methods for Delay Differential Equations | **Speaker: Emircan Gezer**<br>**Title of Talk:** Detecting and modelling spatial autocorrelation on a grid: an introduction with simulated data |
| **12:40 –13:50** | **Lunch Break** | |
| **13:50-18:30** | **An excursion to one of Antalya's historical sites or to the city.** | |
| **18:30** | **Dinner** | |
| **November 07, 2026 (Saturday)** | | |
| **10:00 – 12:30** | **Registration** | |
| | **Invited Talk** | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman:** Irem Kucukoglu | |
| **10:00 – 10:30** | **Invited Speaker:** Abdelmejid Bayad<br>**Title of Talk:** Remarks on Inversion Formulas for Higher-Order Lerch Zeta Functions | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman:** Fusun Yalcin | |
| **10:30 – 11:00** | **Invited Speaker:** Elvan Akın<br>**Title of Talk:** Mathematical and Statistical Analysis of HIV Infection Dynamics | |
| **11:00 – 11:20** | **Coffee Break** | |
| | **Parallel Sessions** | |
| | **Hall 1**<br>**Chairman: Mihaela Ribičić Penava** | **Hall 2**<br>**Chairman: Dora Pokaz** |
| **11:20 – 11:40** | **Speaker: Mustafa Alkan**<br>**Title of Talk:** A generalization of prime ideal | **Speaker: Fusun Yalcin**<br>**Title of Talk:** Evaluating Parameter Sensitivity to Spatial Weight Matrix Specifications in SAR Models: An Operational Application |
| **11:40 – 12:00** | **Speaker: Neslihan Kilar**<br>**Title of Talk:** Some observations on r-parametric Hermite-based Milne-Thomson type Fubini polynomials | **Speaker: Buket Simsek**<br>**Title of Talk:** Statistical Approaches in Advancing Health Research and Clinical Applications |
| **12:00 – 12:20** | **Speaker: Pembe Sabancıgil**<br>**Title of Talk:** α-Bleimann, Butzer, and Hahn Operators | **Speaker: Asude Öztürk**<br>**Title of Talk:** A Literature Review on the Effects of Climate Change on Agricultural Production and Stochastic Modeling Approaches |
| **12:20 –14:00** | **Lunch Break** | |

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| | **Invited Talk** | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman:** Yilmaz Simsek | |
| **14:00 – 14:30** | **Invited Speaker:** Manuel López-Pellicer<br>**Title of Talk:** The story of determining the shape of the Earth, based on Newton's discoveries | |
| **14:30 – 14:40** | **Coffee Break** | |
| | **Parallel Sessions** | |
| | **Hall 1**<br>**Chairman: A. Cigdem Ozcan Cevik** | **Hall 2**<br>**Chairman: İsmail Naci Cangül** |
| **14:40 – 15:00** | **Speaker: Irem Kucukoglu**<br>**Title of Talk:** Formulae for the integrals of a certain class of divisor and totative sums | **Speaker: Sabina Hrustić**<br>**Title of Talk:** Dynamics and Bifurcations in Discrete Proliferating–Quiescent Tumor Growth Model |
| **15:00 – 15:20** | **Speaker: Ezgi Polat**<br>**Title of Talk:** Certain finite sum formulas via combining of Bernstein basis functions, Legendre basis functions, Catalan numbers, and Leibniz numbers | **Speaker: Elif Bozo**<br>**Title of Talk:** A Certain Family of Polynomials with Coefficients Involving Stirling and Derangement Numbers |
| **15:20 – 15:40** | **Speaker: Ecem Ateş**<br>**Title of Talk:** Heat Equation approach to one of family of theta function | **Speaker: Seda Öztürk**<br>**Title of Talk:** Some Algebraic Properties of a Certain Subgroup of the Modular Group Γ |
| **15:40 – 15:50** | **Coffee Break** | |
| | **Online Invited Talk** | |
| | **Hall 1 + Virtual Hall (Online)**<br>**Chairman:** Yilmaz Simsek | |
| **15:50 – 16:20** | **Invited Speaker:** Gradimir V. Milovanović<br>**Title of Talk:** Construction of Orthogonal Polynomials and Quadrature Formulas Associated with a Complex Moment Functional | |
| **16:20 – 16:50** | **Invited Speaker:** Clemente Cesarano<br>**Title of Talk:** A survey on bi-orthogonal polynomials and functions | |
| | **Virtual Hall (Online)**<br>**Chairman: Elif Sukruoglu** | |
| **16:50 – 17:10** | **Speaker: Harbi Abida**<br>**Title of Talk:** The maximum norm analysis of a nonmatching grid method for a class of nonlinear parabolic problems | |
| **17:10 – 17:30** | **Speaker: Sanja Kovač**<br>**Title of Talk:** A unified approach to Hermite-Hadamard, Fejér and Ostrowski type inequalities for generalized convex functions | |
| **18:50 –19:00** | **Conference Group Photo Shoot** | |
| **19:00** | **Gala Dinner** | |
| **November 08, 2026 (Sunday)** | | |
| | **Free Discussion and Individual Activities** | |