

CONFERENCE SCHEDULE FOR MICOPAM 2022
THE 5th MEDITERRANEAN INTERNATIONAL CONFERENCE OF
PURE & APPLIED MATHEMATICS AND RELATED AREAS
ANTALYA, TURKEY, OCTOBER 27-30, 2022

Conference Venue

Sherwood Exclusive Lara Hotel, Antalya, TURKEY

Important Notes

- 1) The Conference will be held as a hybrid event, including **both physical and virtual presentations**.
- 2) Time zone for Conference is GTM +3 (Istanbul time).
- 3) The Hall 1-3 represents the physical rooms in the conference hotel.
- 4) The Virtual Hall A-C represents the class opened in the platform used for online presentations.

October 27, 2022 (Thursday)

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| 09:00 – 13:30 | Registration | | |
| 13:30 – 14:30 | Opening Ceremony Hall 1 (Physical) - Virtual Hall A (Online) | | |
| 14:30 – 15:15 | Hall 1 - Chairman: Yilmaz Simsek Invited Speaker: Wolfgang Sprößig Title of Talk: On the usefulness of quaternion analysis | | |
| 15:15 – 16:00 | Hall 1 - Chairman: Mokhtar Kirane Invited Speaker: Abdelmejid Bayad Title of Talk: Modular forms and Partitions functions | | |
| 16:00 – 16:15 | Coffee Break | | |
| | Parallel Sessions | | |
| | Hall 1 Chairman: Irem Kucukoglu | Hall 2 Chairman: Fusun Yalcin | Hall 3 Chairman: Rahime Dere |
| 16:15 – 16:30 | Speaker: Elif Sukruoglu Title of Talk: Remarks on Generalization Szász-Mirakjan-Baskakov Operator and Their Applications | Speaker: Mohamed Ali Hajji Title of Talk: A polynomial approach to optimal control switched systems and applications | Speaker: Ghadeer Mohammed Surrati Title of Talk: Fourier Extensions for Solving Boundary Value Problems in Arbitrary Domain |
| 16:30 – 16:45 | Speaker: Melis Oyku Hazar Title of Talk: A note on Mathematical Model for conversion of Sentences from Active Voice to Passive Voice | Speaker: Nafaa Chbili Title of Talk: Extending Quasi-alternating links | Speaker: Mehnaz Haneef Title of Talk: Umbral properties of generalized Bessel functions and hyperbolic like functions appearing in a magnetic transport problem |

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| 16:45 – 17:00 | Speaker: Marco Daniel Pollanen Title of Talk: Stochastic Weather Modelling of Agricultural Drought in Arid Climates | Speaker: Rolf Sören Kraußhar Title of Talk (Online): Some new results on Hardy spaces of monogenic functions in the octonionic setting | Speaker: Mustafa Alkan Title of Talk: A note on color compositions and the pattern |
| 17:00 – 17:30 | Coffee Break | | |
| 17:30 – 18:15 | Virtual Hall A - Chairman: Mustafa Alkan Invited Speaker: Elvan Akin Title of Talk (Online): Mathematical Modeling of Infectious Diseases on Time Scales | | |
| 18:15 – 19:00 | Virtual Hall A - Chairman: Yilmaz Simsek Invited Speaker: Richard Tremblay Title of Talk (Online): Some examples of application of the operator ${}_zO_{\alpha}^{\beta}$ to special functions, in particular to the Christoffel-Darboux identity for Orthogonal Polynomials | | |
| 19:00 – 19:45 | Virtual Hall A - Chairman: Abdelmejid Bayad Invited Speaker: Hari Mohan Srivastava Title of Talk (Online): A Family of Double Integrals Stemming from the Boltzmann Equation in the Kinetic Theory of Gasses | | |

October 28, 2022 (Friday)

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| 09:00 – 10:30 | Registration | | |
| 10:30 – 11:00 | Chairman: Wolfgang Sprößig Invited Speaker: Mokhtar Kirane Title of Talk: Reaction-Diffusion Systems that I liked | | |
| 11:00 – 11:15 | Coffee Break | | |
| Parallel Sessions | | | |
| | Hall 1 Chairman: Abdelmejid Bayad | Hall 2 Chairman: Sema Bilge Ocak | Hall 3 Chairman: Marco Daniel Pollanen |
| 11:15 – 11:30 | Speaker: Ismail Naci Cangul Title of Talk: Realizability Properties of Degree Sequences | Speaker: Ayşe Yılmaz Ceylan Title of Talk: Bezier forms with dual Bernstein bases | Speaker: Zayid Abdulhadi Title of Talk: On Bohr's Theorem for stable functions |
| 11:30 – 11:45 | Speaker: Elif Çetin Title of Talk: A New Finite Special Sum Associated With the Hardy Sums and Fibonacci Numbers | Speaker: Hülya Güçlü Title of Talk: Mathematical models describing the correlation between electrical conductivity and ash content of adulterated Turkish molasses | Speaker: Mika Koskenoja Title of Talk: A brief distributional approach to plurisuperharmonic functions |
| 11:45 – 12:00 | Speaker: Chouaib Khattou Title of Talk: Study of the arithmetic properties of Bernoulli numbers of higher orders | Speaker: Giorgi Imerlishvili Title of Talk: One-sided fractional integrals in Morrey and Vanishing Morrey spaces | Speaker: Dimpho Millicent Mothibi Title of Talk: Lagrangian formulation and exact solutions for potential Kadomtsev-Petviashvili equation with p-power nonlinearity |

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| 12:00 – 12:15 | Speaker: Hasan Muhammed Aktas Title of Talk: Remarks on certain Families of Arithmetic Sequence based on Fibonacci and Lucas Numbers | Speaker: Sithembele Nkonkobe Title of Talk: On combinatorics of some higher order generalised geometric polynomials | |
| 12:15 – 12:30 | Speaker: Daeyeoul Kim Title of Talk: Identities derived from Dirichlet convolution and regular convolutions | Speaker: Ahmed Al-Rawashdeh Title of Talk: Classifications of C^* -algebras Using Unitary Groups | |
| 12:45 – 13:30 | Lunch | | |
| | Poster Session Across of Hall 1 (Poster Session Chairman: Neslihan Kilar) | | |
| 13:30 – 14:15 | Presenter: Emine Şükran Okudan Title of Poster: The regression analysis of the compositions of Antalya Gulf Macroalgae (Turkey) | | |
| | Parallel Sessions | | |
| | Hall 1 Chairman: Sithembele Nkonkobe | Hall 2 Chairman: Ayşe Yılmaz Ceylan | |
| 14:15 – 14:30 | Speaker: Rahime Dere Title of Talk: On Linear Operators Associated with the Umbral Algebra | Speaker: Hamdullah Başaran Title of Talk: Berezin radius inequalities with improvement of Young inequality | |
| 14:30 – 14:45 | Speaker: Nazim Mahmudov Title of Talk: Analytical solution of the fractional linear multi-delayed systems and their Ulam-Hyers stability | Speaker: Sofwah Ahmad Title of Talk: Asymptotic behavior of solutions to a time-space fractional diffusive Volterra equation | |
| 14:45 – 15:00 | Speaker: Mehmet Ali Özarslan Title of Talk: On the Multiple α -type Polynomials | Speaker: Dip Mukherjee Title of Talk: Effects of yield stress on the hydrodynamic stability of parallel shear flows of Herschel-Bulkley fluid | |
| 15:00 – 15:30 | Coffee Break | | |
| | Parallel Sessions | | |
| | Hall 1 Chairman: Nazim Mahmudov | Hall 2 Chairman: Yasemin Leventeli | |
| 15:30 – 15:45 | Speaker: Duygu Malyali Title of Talk: Twice iterated Big q -Appell polynomials and their properties | Speaker: Mashhour Bani Ata Title of Talk: On Jordan Algebra and its automorphism group $F4(K)$ in fields K of characteristic 2 | |
| 15:45 – 16:00 | Speaker: Merve Çil Title of Talk: Bivariate Hybrid Chlodowsky-Jain-Appell operators | Speaker: Abdulkarem Alhuraiji Title of Talk: Root-elements, root-subgroups and the maximal parabolic subgroup $P6$ in $E6(K)$ for fields K of characteristic two | |
| 16:00 – 16:15 | Speaker: Mustafa Kara Title of Talk: Approximation properties of the generalized Kantorovich type Szász-Mirakjan operators based on q -integers | Speaker: Abdullah Alazemi Title of Talk: Main and Non-Main eigenvalues of Connected Chain Graphs | |

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| 16:15 – 16:30 | Speaker: Pembe Sabancıgil Title of Talk: Some Approximation Properties of q-Stancu-Durrmeyer Operators | |
| 16:45 | Conference Group Photo Shoot (The shoot location will be announced) | |
| 17:00 | Welcome Cocktail (Will be held on the terrace of the Breezes lounge) | |

October 29, 2022 (Saturday)

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| 09:00 – 09:30 | Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Subuhi Khan Title of Talk (Online): Certain new families related to q-Bessel polynomials and q-Bessel functions | | |
| | Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Gradimir V. Milovanović Title of Talk (Online): Methods for Slowly Convergent Series and Applications to Special Functions | | |
| 10:00 – 10:30 | Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Manuel López-Pellicer Title of Talk (Online): Equivalences with the Separable Quotient Problem | | |
| | Coffee Break | | |
| | Parallel Sessions | | |
| | Virtual Hall A (Online) Chairman: Elif Çetin | Virtual Hall B (Online) Chairman: Emre Demir | Virtual Hall C (Online) Chairman: Niyazi Ugur Kockal |
| 10:45 – 11:00 | Speaker: Mihaela Ribicic Penava Title of Talk: Hermite–Hadamard–Fejer type inequalities and weighted quadrature formulae | Speaker: Fulya Yoruk Deren Title of Talk: Existence results of a Hadamard fractional boundary value problem with a Hadamard fractional derivative condition for $2 < p \leq 3$ | Speaker: Gülçin Karaca Title of Talk: Some Finite Cyclic Unit Graphs |
| 11:00 – 11:15 | Speaker: Dilek Söylemez Özden Title of Talk: A Korovkin type approximation for (p,q) -Bernstein operators via power series statistical convergence | Speaker: Hüseyin Çakır Title of Talk: Bilinear multipliers of the spaces with fractional wavelet transform | Speaker: Seda Ozturk Title of Talk: A Special Number Sequence Derived From Suborbital Graphs for the Modular Group Γ |

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| 11:15 – 11:30 | Speaker: Ahmet Alturk Title of Talk1: Solving Various Types of Schlömilch's Integral Equations | Speaker: Erwinna Chendra Title of Talk: Artificial Neural Network Method for Solving Black-Scholes-Merton Partial Differential Equation | Speaker: Fatih Gömleksiz Title of Talk: The relation β_{ss}^* |
| 11:30 – 11:45 | Speaker: Ahmet Alturk Title of Talk2: On the solution of Volterra integral equation with a weakly singular kernel: A special case | | Speaker: Öznur Kulak Title of Talk: A spectrum of Zariski topology over multiplication Krasner hypermodules |
| 11:45 – 12:00 | Speaker: Hayatem Hamal Title of Talk: Modification of New Generalization Kantorovich type of Bernstein Operators via (p, q) -calculus | | Speaker: Işıl Açık Demirci Title of Talk: Certain aspects of rough l_2 -statistical convergence in cone metric spaces |
| 12:00 – 12:15 | Speaker: Dora Pokaz Title of Talk: New generalization of the Hardy type inequality | | Speaker: Ekin Deliktaş-Ozdemir Title of Talk: Bright Solitary Shear Horizontal Waves in a Heterogeneous Elastic Layer over Heterogeneous Semi-Space |
| 12:15 – 12:30 | | | Speaker: Federico Giovanni Infusino Title of Talk: On the Consequences of a Specific Subdomain Extension Problem |
| 12:30 – 13:30 | Lunch | | |
| | Parallel Sessions | | |
| | Virtual Hall A (Online) Chairman: Erkan Agyuz | | Hall 2 (Physical) Chairman: Yusuf Uras |
| 13:30 – 13:45 | Speaker: Vladimir Kruchinin Title of Talk: Development of an electronic encyclopedia of number pyramids based on the mathematical apparatus of compositae | | Speaker: Niyazi Ugur Kockal Title of Talk: Evaluation of Relationships Between Mechanical and Physical Properties of Cementitious Materials |
| 13:45 – 14:00 | Speaker: Dmitry Kruchinin Title of Talk: Application of the method of compositae to obtain an explicit formula for a certain generating function in three variables | | Speaker: Emre Demir Title of Talk: Utilization of Repulsion Weights Application as an Optimizing Parameter |
| 14:00 – 14:15 | Speaker: Yury Shablya Title of Talk: Development of combinatorial generation algorithms for some lattice paths using the method based on AND/OR trees | | Speaker: Yasemin Leventeli Title of Talk: Remarks on Earthquakes Involving Polynomials-type Rocking Bearing |
| 14:15 – 14:30 | Speaker: Mohand Ouamar Hernane Title of Talk: Some Diophantine equations involving the product of two k-Fibonacci numbers and Fermat or Mersenne numbers | | Speaker: Mustafa Gurhan Yalcin Title of Talk: Statistical Assessment of Geochemical Properties of Alanya Barites (Antalya/Türkiye) |

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| 14:30 – 14:45 | Coffee Break | |
| | Virtual Hall A (Online) Chairman: Neslihan Kilar | Hall 2 (Physical) Chairman: Mustafa Gurhan Yalcin |
| 14:45 – 15:00 | Speaker: Busra Al Title of Talk: Odd Compositions and Odd Partitions on Positive Integers | Speaker: Fusun Yalcin Title of Talk: An application on the selection of weight matrices in spatial regression models |
| 15:00 – 15:15 | Speaker: Seyyed Ali Mohammadiyeh Title of Talk: FastCombPerm: A Fast Package For Creating Combinations and Permutations With And Without Repetition | Speaker: Yasemin Leventeli Title of Talk: Mass Movements Investigation: Suluada (Antalya) |
| 15:15 – 15:30 | Speaker: Mohammed Abdelmalek Title of Talk: Transversal hypersurfaces in Loentz Minkowski Space | Speaker: Fusun Yalcin Title of Talk: An application on examining the use of regression analysis in time series |
| 15:30 – 15:45 | Speaker: Fayyaz Ahmad Title of Talk: Approximating fixed points of generalized (α, β) Non-Expansive mapping via KF iteration process | Speaker: Mustafa Gurhan Yalcin Title of Talk: Correlation of Geochemical Contents of Alanya (Antalya) Barites |
| 15:45 – 16:00 | Coffee Break | |
| | Online Poster Session Virtual Hall A (Online) (Online Poster Session Chairman: Yilmaz Simsek) | |
| 16:00 – 16:45 | Presenter: Saadeddine Mana Title of Poster (Online): Contribution to the theoretical and experimental study of organic fresh vegetables drying products in southern Algeria | |
| 09:30 – 18:30 | Excursion (The excursion will be organized only for participants who declare that they want to participate in the excursion, by sending an email to micopam2018@gmail.com) | |
| 19:30 | Gala Dinner | |
| October 30, 2022 (Sunday) | | |
| 09:00 – 09:30 | Hall 1 - Chairman: Yilmaz Simsek Invited Speaker: Yusuf Uras Title of Talk: The importance of drinking water in terms of medical geology; Hidden danger in waters: (Ba, Ca, I, Mg, etc.) | |

| Parallel Sessions | | |
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| | Hall 1 Chairman: Ismail Naci Cangul | Hall 2 Chairman: Mustafa Gurhan Yalcin |
| 09:30 – 09:45 | Speaker: Yilmaz Simsek Title of Talk: Formulas derived from certain family operator and p-adic bosonic integral | Speaker: Erkan Agyuz Title of Talk: The rate of convergence on Kantorovich-Szász operators involving Fubini-type polynomials |
| 09:45 – 10:00 | Speaker: Irem Kucukoglu Title of Talk: Analysis of a new class of q-combinatorial numbers and polynomials by its implementation in the Wolfram Language | Speaker: Abdesamia Azizi Title of Talk (Online): Robust simultaneous estimation of actuator and sensor faults for Uncertain Lipschitz Nonlinear Systems |
| 10:00 – 10:15 | Speaker: Neslihan Kilar Title of Talk: Relations for special polynomials obtained from trigonometric and hyperbolic functions | Speaker: Nassira Menni Title of Talk (Online): Asymptotic normality for regression function estimate under right censored data and association |
| 10:15 – 10:30 | Speaker: Irem Kucukoglu Title of Talk: Notes on an initial value problem involving the generating functions of the Poisson-Charlier polynomials | Speaker: Abdelhalim Louifi Title of Talk (Online): Interval Valued PCA-Based Approach For Fault Detection in dynamic systems |
| 10:30 – 10:45 | Speaker: Damla Gun Title of Talk: Some special series involving two variable Fibonacci type polynomials and combinatorial numbers | Speaker: Abdelmalek Kouadri Title of Talk (Online): Nonlinear process monitoring based on interval-valued PCA approach |
| 10:45 – 11:00 | Coffee Break | |
| 11:00 – 11:45 | Chairman: Yilmaz Simsek Invited Speaker: Ronald N. Goldman Title of Talk: Bernstein Bases and Blossoming | |
| 12:30 | Closing Ceremony Hall 1 (Physical) - Virtual Hall A (Online) | |