

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)

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 Mohommed 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

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 Christoffeel-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)			
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

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 Özarlan 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 Malyalı 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	

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)			
09:00 – 09:30	Virtual Hall A - Chairman: Neslihan Kılar		
	Invited Speaker: Subuhi Khan Title of Talk (Online): Certain new families related to q-Bessel polynomials and q-Bessel functions		
09:30 – 10:00	Virtual Hall A - Chairman: Neslihan Kılar		
	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 Kılar		
	Invited Speaker: Manuel López-Pellicer Title of Talk (Online): Equivalences with the Separable Quotient Problem		
10:30 – 10:45	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

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 I2-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 Deliktas-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: Yuriy 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)	

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	
	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)	