

MICOPAM 2024 – Conference Program Schedule
The 7th Mediterranean International Conference of Pure & Applied
Mathematics and Related Areas
Antalya-TURKEY, October 26–29, 2024

Conference Venue

Sherwood Dreams Resort Hotel (Ultra All Inclusive), Antalya, TURKEY

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 Halls 1-2 represent 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.

October 26, 2024 (Saturday)

10:00 – 12:30	Registration		
Parallel Sessions			
	Hall 1 Chairman: Abdelmejid Bayad	Hall 2 Chairman: Mihaela Ribičić Penava	Virtual Hall (Online) Chairman: Damla Gun
10:30 – 10:40	Speaker: Emil Khalilov Title of Talk: On the relationships between prime ideals related to an ideal and radical ideals in a commutative ring	Speaker: Niyazi Uğur Koçkal Title of Talk: Estimation of behavior of composite materials under aggressive conditions	Speaker: Veerabhadraiah Lokesha Title of Talk: Contemporary expansion in the Topological indices
10:40 – 10:50	Speaker: Mehmet Ali Özarslan Title of Talk: Certain families of trivariate Mittag-Leffler functions and corresponding fractional calculus	Speaker: Mustafa Gurhan Yalcin Title of Talk: The importance of regression analysis in heavy metal content	Speaker: Syeda Noor Fathima Title of Talk: Modular forms and its application
10:50 – 11:00	Speaker: Nazim I. Mahmudov Title of Talk: Kalman type criterion for controllability of second order systems with damping term	Speaker: Asude Ozturk Title of Talk: Logit regression modelling of the support for women in working life survey	Speaker: Rabia Zengin Title of Talk: Locality of cyclic codes whose subcodes are negacyclic codes with length $q+1$ and length 2 for $q \equiv 1 \pmod{4}$
11:00 – 11:10	Speaker: Pembe Sabancigil Title of Talk: Bernstein-Durrmeyer operators providing a better approximation on $[1/3, 2/3]$	Speaker: Fusun Yalcin Title of Talk: Examining the differences between the use of logit and probit regression models with the support for working women survey	Speaker: Erkan Agyuz Title of Talk: Rate of convergence by the integral operators including Euler type polynomials
11:10 – 11:20	Speaker: Mustafa Kara Title of Talk: New modification of Riemann-Liouville fractional integral type Bernstein-Kantorovich operators	Speaker: Sude Yalcin Title of Talk: Between 2008 and 2022, distribution of individuals receiving services from physicians by gender and a statistical approach	Speaker: Aynur Keskin Kaymakci Title of Talk: MBK-open Sets

11:20 – 11:30	<h2 style="text-align: center;">Coffee Break</h2>		
Parallel Sessions			
	Hall 1 Chairman: Ayse Yilmaz Ceylan	Hall 2 Chairman: Jerzy Gawinecki	Virtual Hall (Online) Chairman: Damla Gun
11:30 – 11:40	Speaker: Rahime Dere Title of Talk: A family of some special polynomials	Speaker: Mika Koskenoja Title of Talk: A comparison principle for the distributional Levi form	Speaker: Seda Öztürk Title of Talk: On parabolic class number of some homogeneous principal congruence subgroup of the modular group
11:40 – 11:50	Speaker: Neslihan Kilar Title of Talk: Derivatives of degenerate Peters-type Simsek polynomials of the second kind	Speaker: Niyazi Uğur Koçkal Title of Talk: Relationship regarding compatibility between matrix and fiber	Speaker: Julije Jakšetić Title of Talk: Jensen's inequality for divided differences
11:50 – 12:00	Speaker: Buket Simsek Title of Talk: The impact of the interaction of big data and artificial intelligence on medical fields	Speaker: Betul Unal Title of Talk: The signal analysis, obtained with the developed nitrogen-doped graphene electrode	Speaker: Dragana Kordić Title of Talk: Converses of Hardy type inequalities
12:00 – 12:10	Speaker: Simge Yilmaz Title of Talk: Charlier collocation method for Riccati differential equations	Speaker: Hamdullah Başaran Title of Talk: Berezin radius inequalities with the partial isometry operator	Speaker: Rolf Sören Kraußhar Title of Talk: Some new insights on octonionic Bergman spaces
12:10 – 12:20	Speaker: Dudu Şeyma Kun Title of Talk: On Bézier-type curves	Speaker: Ismail Naci Cangul Title of Talk: Effect of Edge Addition on Reduced Second Zagreb Index	Speaker: Chouaib Khattou Title of Talk: Some arithmetic properties of Bernoulli numbers of higher order
12:20 – 13:45	Lunch Break		
	Invited Talks		
	Hall 1 Chairman: Yilmaz Simsek		
13:45 – 14:10	Invited Speaker: Gradimir V. Milovanović Title of Talk: Orthogonality in the complex plane		
14:10 – 14:35	Invited Speaker: Daeyeoul Kim Title of Talk: Convolution sums of divisors functions		
14:35-14:50	Coffee Break		

Parallel Sessions			
	Hall 1 Chairman: Daeyeoul Kim	Hall 2 Chairman: Ahmet Sinan Cevik	Virtual Hall (Online) Chairman: Fusun Yalcin
14:50 – 15:00	Speaker: Irem Kucukoglu Title of Talk: A study on derivation of finite sums involving a unified presentation of the Peters-type Simsek numbers and polynomials	Speaker: Rumen Uluchev Title of Talk: On a direct result for a family of modified Goodman-Sharma operators	Speaker: Seda Öztürk Title of Talk: Solutions of some special congruence equations by permutation groups
15:00 – 15:10	Speaker: Elif Cetin Title of Talk: A note on q-type special sums	Speaker: Geno Nikolov Title of Talk: Jacobi polynomials and inequalities of Duffin–Schaeffer type	Speaker: Mine Menekşe Yılmaz Title of Talk: On Korovkin type convergence of the Szasz-type operators involving negative order Bernoulli polynomials
15:10 – 15:20	Speaker: Jerzy Gawinecki Title of Talk: L^p-L^q time decay estimate for the solution of the Cauchy problem for the system describing linear thermodiffusion in the thermal stresses theory	Speaker: Angel Ivanov Zhivkov Title of Talk: On the short-time dynamics of the Solar system	Speaker: Amel Berhail Title of Talk: Convergence of PDI type Iterative Learning Control for fractional differential equation in the Caputo sense
15:20 – 15:30	Speaker: Stanislaw Kachel Title of Talk: Global solution to the initial value problem for nonlinear system of equations of thermodiffusion without displacements		Speaker: Ananthakrishnan Sumedan Title of Talk: An elementary proof of Fermat's last theorem
15:30 – 16:00	Welcome Cocktail and Conference Group Photo Shoot (The shoot location: Hall 1)		
16:00 – 17:40	Dedication Ceremony Hall 1 - Chairman: Professor Yilmaz Simsek Presentations for Curriculum vitae of Prof. Abdelmejid BAYAD and Professor Yilmaz Simsek's Talk Title: Historical development of "Dedekind sums" expressed in terms of a special finite sum from "Richard Dedekind" to the present and Prof. Abdelmejid BAYAD's Talk Title: Relations among zeta-type functions and Jordan, Mirimanoff and Thacker functions		
19:30	Gala Dinner		

October 27, 2024 (Sunday)

10:00 – 12:30	Registration		
	Invited Talks		
	Hall 1 Chairman: Gradimir V. Milovanović		
11:00 – 11:25	Invited Speaker: Dora Pokaz Title of Talk: Several generalizations of the Hardy-type inequality		
11:25 – 11:35	Coffee Break		
	Parallel Sessions		
	Hall 1 Chairman: Gradimir V. Milovanović	Hall 2 Chairman: Öznur Kulak	Virtual Hall (Online) Chairman: Rahime Dere
11:35 – 11:45	Speaker: Miodrag Spalevic Title of Talk: On generalized averaged Gaussian quadrature rules	Speaker: Ismail Naci Cangul Title of Talk: Degree based topological indices of Archimedean graphs of type (4,6,12)	Speaker: Yahya Çin Title of Talk: k-hypergeometric polynomials
11:45 – 11:55	Speaker: Stefan Spalevic Title of Talk: A new class of quadrature rules for estimating the error in Gauss quadrature	Speaker: Ahmet Sinan Cevik Title of Talk: Is there any relationship between minimality and multiset dimensions?	Speaker: Kristina Krulić Himmelreich Title of Talk: Hardy type inequalities and Hermite's interpolating polynomial
11:55 – 12:05	Speaker: Aleksandar V. Pejcev Title of Talk: On error bounds of Gaussian quadrature formulae with Legendre weight function for analytic integrands	Speaker: Sithembile Nkonkobe Title of Talk: Combinatorial interpretation of some generalized geometric polynomials	Speaker: Ksenija Smoljak Kalamir Title of Talk: New bounds for generalized Steffensen's inequality using Hermite interpolation
12:05 – 12:15	Speaker: Eda Yuluklu Title of Talk: Remarks on Hermite-Based Peters-type Simsek polynomials	Speaker: Evgeniya Burtseva Title of Talk: On boundedness of the Riesz potential in Morrey–Orlicz type spaces	Speaker: Gorana Aras-Gazić Title of Talk: Generalization of the Jensen–Steffensen inequality and majorization in the context of divided differences
12:15 – 12:25	Speaker: Edison Fausto Cuba Huamani Title of Talk: Existence of steady solutions to active scalar equations	Speaker: Ismail Naci Cangul Title of Talk: Randic Index of Vertex-Switching of Some Graph Classes	Speaker: Khadidja Aicha Kada Title of Talk: A Juvenile-Adult population model to understand the European grapevine moth dynamics
12:25 – 14:30	Lunch Break		

	Invited Talk	
	Hall 1 Chairman: Irem Kucukoglu	
15:30 – 15:55	Invited Speaker: Öznur Kulak Title of Talk: On the multilinear multipliers theory	
15:55 – 16:10	Coffee Break	
	Parallel Sessions	
	Hall 1 Chairman: Dora Pokaz	Virtual Hall (Online) Chairman: Elif Sukruoglu
16:10 – 16:20	Speaker: Jesus Cruz Guzman Title of Talk: The duality concept in the category of graded commutative algebras	Speaker: Zineb Bellabess Title of Talk: Weak solutions of p -Caputo fractional derivatives with variable order
16:20 – 16:30	Speaker: Daniyar Kozybayev Title of Talk: Novikov coalgebras	Speaker: Anamarija Perušić Pribanić Title of Talk: Bounds of Hermite-Hadamard-type for generalizations of Steffensen's inequality via Lidstone's polynomials
16:30 – 16:40	Speaker: Altyngul Naurazbekova Title of Talk: Tame automorphisms of the free dual Leibniz algebra of rank 2	Speaker: Faruk Kaplan Title of Talk: A Brief Study About Binomial Transforms of Generalized k -Tetranacci Sequences
16:40 – 16:50	Speaker: Malesela Clifford Kekana Title of Talk: Accuracy estimation of the numerical solution for chaotic regime of the pendulum with external and parametric excitation	Speaker: Deepasree S. Kumar Title of Talk: Computation of NM-polynomial and topological indices for cycle related graphs
16:50 – 17:00	Speaker: İrem Adiyaman Title of Talk: Multilinear Multipliers Theorems for the spaces of functions with Wavelet Transform in amalgam Spaces	Speaker: Nirupadi K. Title of Talk: V L Index of Vertex Switching of Some Classes Graph
17:00 – 17:10	Speaker: Ahmet Altürk Title of Talk: On the edge effects in wavelets	
17:10 – 17:20	Speaker: Mehmet Akif Özçoban Title of Talk: EEG Coherence as a Biomarker for Detecting Mild Traumatic Brain Injury: A Study of Functional Connectivity Reductions	

October 28, 2024 (Monday)

10:30 – 12:30	Registration		
	Invited Talk		
	Hall 1 (Physical) + Virtual Hall (Online) Chairman: Daeyeoul Kim		
10:30 – 10:55	Invited Speaker: Mihaela Ribičić Penava Title of Talk: Hermite–Hadamard type inequalities with applications		
10:55 – 11:15	Invited Speaker: Manuel López-Pellicer Title of Talk (Online): Covering properties in spaces of continuous functions		
11:15 – 11:30	Coffee Break		
	Parallel Sessions		
	Hall 1 Chairman: Miodrag Spalevic	Hall 2 Chairman: Rumen Uluchev	Virtual Hall (Online) Chairman: Elif Cetin
11:30 – 11:40	Speaker: Damla Gun Title of Talk: Relations among multiple variables polynomials, Fibonacci and Lucas numbers	Speaker: Erik-Jürgen Määrits Title of Talk: An iterated collocation-type method for linear fractional differential equations	Speaker: Özlem Karaağaçlı Title of Talk: Dickson collocation method to solve a model regarding pollution of a system of lakes
11:40 – 11:50	Speaker: Elif Sukruoglu Title of Talk: Identities derived from applications of Indefinite sum operator to the Mirimanoff polynomials	Hall 2 Poster Session Chairman: Rumen Uluchev Speaker: Khaldoun Al-Zoubi Title of Poster: On graded S-semiprime ideals of commutative graded rings	Speaker: Fatma Zürnacı Yetiş Title of Talk: Non-polynomial divided differences and their properties
11:50 – 12:00	Speaker: Ezgi Polat Title of Talk: Evaluation special values of certain class of polynomials via linear transformation and inverse matrix formulas	Speaker: Mohammed Al-Dolat Title of Poster: New general upper bounds for the numerical Radii of operators in Hilbert spaces	Speaker: Sara Youcef Achira Title of Talk: Theoretical study of Bernoulli wavelet and block-pulse functions operational matrix algorithm and its application to the stochastic equation
12:00 – 12:10	Speaker: Elif Bozo Title of Talk: Remarks on recent advance in Derangement numbers and polynomials	Speaker: Mohammed El Amine Kissi Title of Poster: Analysis of an age-structured model for the Spread of <i>Xylella Fastidiosa</i> in olive trees	Speaker: Sanja Kovač Title of Talk: Ostrowski–Grüss Type Inequality of the Chebyshev Functional with an Application
12:10 – 12:20	Speaker: Ecem Ateş Title of Talk: Remarks on Dedekind zeta function involving Riemann zeta function and Pell equation on modular group		
12:20 – 13:50	Lunch Break		
14:00 – 19:00	An excursion to some historical places of Antalya, the city center and the Akdeniz University campus		

October 29, 2024 (Tuesday)

Invited Talk			
Virtual Hall (Online) Chairman: Neslihan Kilar			
09:30 – 09:50	Invited Speaker: Tomislav Burić Title of Talk (Online): Asymptotic analysis of the compound means with applications		
09:50 – 10:00	Coffee Break		
Parallel Sessions			
	Hall 1 Chairman: Abdelmejid Bayad	Virtual Hall (Online) + Hall 2 (Physical) Chairman: Rahime Dere	Virtual Hall 2 (Online) Chairman: Elif Cetin
10:00 – 10:10	Speaker: Mustafa Alkan Title of Talk: A note on palindrome compositions set	Speaker: Nisa Akgöz Title of Talk: Power series statistical convergence of (p, q) -Bleimann, Butzer and Hahn operators	Speaker: Siham Mokhfi Title of Talk: Trace formula for Witt vectors rings
10:10 – 10:20	Speaker: Irem Kucukoglu Title of Talk: Computational formulas for the polynomials emerging from the integrals of the Poisson-Charlier polynomials	Speaker: Dmitry Kruchinin Title of Talk: Fractals on compositae	
10:20 – 10:30	Speaker: Neslihan Kilar Title of Talk: Some formulas for ordered Bell polynomials via finite operators	Speaker: Yuriy Shablya Title of Talk: Application of generating functions to calculate the number of words derived from unambiguous context-free grammars	
10:30 – 10:40	Speaker: Mustafa Alkan Title of Talk: A note on relation between the Fibonacci numbers and the color palindrome compositions	Speaker: Raymond Calvin Ochieng Title of Talk: Bijective mapping in pythagorean triples	
10:40 – 11:10	Closing Ceremony Hall 1 (Physical) + Virtual Hall (Online)		