

MICOPAM 2023 – Conference Program Schedule
The 6th Mediterranean International Conference of Pure & Applied
Mathematics and Related Areas
Paris-FRANCE, August 23-27, 2023

Conference Venue

The talks will take place at the IBGBI building located at 23 Bd de France, 91037 Évry-Courcouronnes.
(Simply enter this address on Google Maps to get directions from your hotel)

Important Notes

- The Conference will be held as a hybrid event, including both physical and online presentations.
 - Time zone for the conference is GTM +2 (Local time in Paris, France).
 - The Hall 1-3 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 whose presentation is online will be projected to the board at the Hall 1, for physical participants to follow them.
- The other online presentations in the Virtual Hall will be projected to the board at the Hall 3, for physical participants to follow them.

August 23, 2023 (Wednesday)

09:00 – 11:30	Registration
	Invited Talks (Virtual)
	Virtual Hall + Hall 1 Chairman: Neslihan Kilar
09:30 – 09:45	Invited Speaker: Subuhi Khan Title of Talk (Online): Umbral convolutions of hypergeometric functions
09:45 – 10:00	Invited Speaker: Veerabhadraiah Lokesh Title of Talk (Online): Focus on Connectivity indices and its impact
10:00 – 10:30	Welcome Speech of the President of the Université d'Evry Hall 1 (Physical) - Virtual Hall (Online)
10:30 – 10:45	Coffee Break
	Invited Talks (Virtual)
	Virtual Hall + Hall 1 Chairman: Neslihan Kilar
10:45 – 11:00	Invited Speaker: Manuel López-Pellicer Title of Talk (Online): Weakly analytic sets in locally convex spaces
11:00 – 11:15	Invited Speaker: Gradimir V. Milovanović Title of Talk (Online): Complex orthogonality on the semicircle and numerical integration and differentiation

11:15 – 11:30	A Short Break	
	Parallel Sessions (All Physical)	
	Hall 1 Chairman: Seçil Çeken	Hall 3 Chairman: Neslihan Kılar
11:30 – 11:40	Speaker: Beyza Çetin Title of Talk: A Boubaker matrix method for solving higher-order differential equations with constant coefficients	Speaker: Ömer Halil Çolak Title of Talk: Wavelet-based analysis of the effect of electrode positions on the sEMG spectrum
11:40 – 11:50	Speaker: Simge Yılmaz Title of Talk: Charlier polynomial solutions of Lane-Emden differential equations	Speaker: Esra Süzen Title of Talk: Analyze of EEG and Eye-Tracking on Tennis HEC Training
11:50 – 12:00	Speaker: Özlem Karaağaçlı Title of Talk: Dickson collocation method to solve first-order differential equations which variable delays	Speaker: Ayhan Şavklıyıldız Title of Talk: Frequency domain normalizations of EEG signals
12:00 – 12:10	Speaker: Gamze Yıldırım Title of Talk: A collocation method based on Lerch polynomials for solving the Hantavirus infection model	Speaker: Nilay Selma Şavklıyıldız Title of Talk: Effect of vector control algorithms on motor types
12:10 – 13:30	Lunch Break	
14:00 – 16:00	Dedication Ceremony Hall 1 (Physical) - Virtual Hall (Online) (Dedication Ceremony, related speeches, and Prof. Yılmaz SIMSEK's Presentation) Title of Professor Simsek's Talk: On the relations derived from consideration of generating functions for sum of higher powers of inverse binomial coefficients.	
16:00 – 16:10	Conference Group Photo Shoot (The shoot location: Hall 1)	
	Invited Talk (Physical)	
	Hall 1 - Chairman: Rolf Sören Kraußhar	
16:20 – 16:45	Invited Speaker: Satish Iyengar Title of Talk: Inference for first passage times of the Feller process	
16:45 – 17:00	Coffee Break	
	Invited Talks (Physical)	
	Hall 1 Chairman: Daeyeoul Kim	
17:00 – 17:25	Invited Speaker: Burcin Simsek Title of Talk: Model selection for protein copy numbers in populations of microorganism	
17:25 – 17:50	Invited Speaker: Dora Pokaz Title of Talk: Generalizations of the Hardy type inequality via new Green functions and interpolating polynomials	
17:50 – 18:15	Invited Speaker: Marija Stanic Title of Talk: Anti-Gaussian quadrature rules related to polynomials orthogonal on the unit semicircle	
18:15 – 18:40	Invited Speaker: Figen Öke Title of Talk: Extensions of valuations with greater rank	

August 24, 2023 (Thursday)

09:30 – 11:30	Registration		
	Parallel Sessions (2 Physical + 1 Online)		
	Hall 1 Chairman: Figen Öke	Hall 2 Chairman: Ahmet Altürk	Virtual Hall + Hall 3 Chairman: Elif Çetin
08:30 – 08:40	Speaker: Abdelkader Lakmeche Title of Talk: Leukemia disease model	Speaker: Dilek Söylemez Özden Title of Talk: Some results for Bernstein type rational operators	Speaker: Mihaela Ribičić Penava Title of Talk (Online): Generalizations of Euler-Grüss type inequalities
08:40 – 08:50	Speaker: Mohamed Helal Title of Talk: Mathematical analysis for a time delay model of Alzheimer's disease	Speaker: Dae Sik Lee Title of Talk: Degenerate q -derangement numbers and polynomials	Speaker: Melisa Gaygisiz Title of Talk (Online): Mathematical model selection in determining the course of infectious diseases
08:50– 09:00	Speaker: Fatemah Mofarreh Title of Talk: Ruled surfaces in spacetime case characterized by a stationary disteli-axis	Speaker: Ayşe Yılmaz Ceylan Title of Talk: A new approach to deriving identities for the dual Bernstein basis functions	Speaker: Mevlut Caylak Title of Talk (Online): An investigation on last square method in non-linear mathematical models
09:00 – 09:10	Speaker: TBA Title of Talk: TBA	Speaker: TBA Title of Talk: TBA	Speaker: Mohammed Abeidallah Title of Talk (Online): Spatial data case: conditional hazard estimate by the local linear method
	Invited Talk (Physical)		
	Hall 1 Chairman: Satish Iyengar		
09:35 – 10:00	Invited Speaker: Rolf Sören Kraußhar Title of Talk: Generating functions for superoscillating functions and recurrence relations		
10:00 – 10:15	Coffee Break		
	Invited Talk (Physical)		
	Hall 1 Chairman: Abdelmejid Bayad		
10:15 – 10:40	Invited Speaker: Taekyun Kim Title of Talk: Identities on degenerate hyperharmonic numbers		
	Parallel Sessions (2 Physical + 1 Online)		
	Hall 1 Chairman: Nazim I. Mahmudov	Hall 2 Chairman: Ayşe Yılmaz Ceylan	Virtual Hall + Hall 3 Chairman: Elif Çetin
10:40 – 10:50	Speaker: İlkay Onbaşı Elidemir Title of Talk: On ω -(p, q) Sturm-Liouville Problem and Their Orthogonal Solutions	Speaker: Ahmet Altürk Title of Talk: Boundary Handling for Biorthogonal Wavelets	Speaker: Mohamed Djemaa Sadoun Title of Talk (Online): On inference in generalized integer-valued GARCHX models with structural changes

10:50 – 11:00	Speaker: Ertan Akacan Title of Talk: $((p,q)\omega)$ -Hahn Difference Operator and Some Important Characterizations	Speaker: İsmail Uğur Tiryaki Title of Talk: On a sequence of positive linear operators related to squared-Durrmeyer operators	Speaker: Frank Vega Title of Talk (Online): On Solé and Planat criterion for the Riemann Hypothesis
11:00 – 11:10	Speaker: Hye Kyung Kim Title of Talk: Degenerate trigonometric functions arising from p -adic integrals on \mathbb{Z}_p	Speaker: Mahesh Kumar Title of Talk: Approximate solution to Riemann problem arising in hyperbolic conservation equation	Speaker: Frank Vega Title of Talk (Online): NP on Logarithmic Space
11:10 – 11:20	Speaker: TBA Title of Talk: TBA	Speaker: Chen Xuan Title of Talk: The maths of a photo induced hydrogel swimming robot: nonsmooth forcing dynamics	Speaker: Chouaib Khattou Title of Talk: Some arithmetic properties of Bernoulli numbers of higher orders
11:20 – 11:50	A Break		
	Invited Talk (Virtual)		
	Virtual Hall + Hall 1 Chairman: Abdelmejid Bayad		
11:50 – 12:00	Invited Speaker: Chandrashekar Adiga Title of Talk (Online): S. Ramanujan – The Mathematician and his Legacy		
12:00 – 13:30	Lunch Break		
	Invited Talks (Physical)		
	Hall 1 Chairman: Abdelmejid Bayad		
13:30 – 13:55	Invited Speaker: Isabel Cação Title of Talk: On Vietoris convolution triangles		
13:55 – 14:20	Invited Speaker: Marc-Antoine Coppo Title of Talk: Bendersky-Adamchik constants, hyperfactorial functions, and Ramanujan summation of divergent series		
14:20 – 14:45	Invited Speaker: Hussein Mourtada Title of Talk: Integer partitions, graphs and monomial ideals		
14:45 – 15:10	Invited Speaker: C. K. Subbaraya Title of Talk: Convective Heat Transfer in an Enclosure in the Presence of a Magnetic Field		
15:10 – 15:50	Coffee Break		
	Parallel Sessions (2 Physical + 1 Online)		
	Hall 1 Chairman: Isabel Cação	Hall 2 Chairman: İsmail Uğur Tiryaki	Virtual Hall + Hall 3 Chairman: Neslihan Kilar
15:50 – 16:00	Speaker: Elif Çetin Title of Talk: Generalized Simsek Sums and Related Certain Family of Finite Sums	Speaker: Dmitriy Dolgy Title of Talk: Interval decision-making problems	Speaker: Eylem Öztürk Title of Talk (Online): On Brief History and certain aspects of Cahn-Hilliard Equations

16:10 – 16:20	Speaker: Sofiane Abdelhamid Atmani Title of Talk: Ramanujan Congruences for partition functions associated with Eta quotients modulo prime numbers	Speaker: Rukan Genç Altürk Title of Talk: Nanomaterial Design for Engineering Applications	Speaker: Mounir Hajli Title of Talk (Online): On the theory of zeta functions and their applications
16:20 – 16:30	Speaker: Louis Auffret Title of Talk: Catalan, Fuss-Catalan and Raney numbers: Generic combinatorial interpretation and extended definition	Speaker: Mohamed Mehbali Title of Talk: A Hybrid Genetic Algorithm for the Three-index Assignment Problem	Speaker: Dae San Kim Title of Talk (Online): Stirling numbers associated with sequences of polynomials
16:30 – 16:40	Speaker: Aynur Keskin Kaymakci Title of Talk: Further Properties of a^*-I -Open Sets and a^*-I -Continuity	Speaker: TBA Title of Talk: TBA	Speaker: Rahime Dere Title of Talk (Online): Some relations for the Pidduck Polynomials

August 25, 2023 (Friday)

Invited Talks (Physical)			
Hall 1 Chairman: Mehmet Ali Özarslan			
09:40 – 10:05	Invited Speaker: Seçil Çeken Title of Talk: S-versions of some module theoretic concepts		
10:05 – 10:15	Coffee Break		
Invited Talks (Physical)			
Hall 1 Chairman: Taekyun Kim			
10:15 – 10:40	Invited Speaker: Nazim I. Mahmudov Title of Talk: Discrete time mean-field optimal control problems: Stochastic maximum principle		
10:40 – 11:05	Invited Speaker: Daeyeoul Kim Title of Talk: Iterated sociable number and stable numbers		
11:05 – 11:30	Invited Speaker: Mehmet Ali Özarslan Title of Talk: On the approximation to fractional calculus operators with multivariate Mittag-Leffler function in the kernel		
Poster Session Poster Hall - Chairman: Erkan Agyuz		An Online Session Virtual Hall + Hall 3 - Chairman: Neslihan Kilar	
11:30 – 12:00	Poster 1 Presenter: Fares Alazemi Title of Poster 1: Wasserstein bounds in the CLT of the MLE for the drift coefficient of a stochastic partial differential equation	Poster 2 Presenter: Mansoor H. Alshehri Title of Poster 2: Investigation of copper filled carbon nanotubes	11:30 – 11:40 Speaker: Dmitry Kruchinin Title of Talk (Online): Some Properties of the Faber Polynomials
			11:40 – 11:50 Speaker: Yuriy Shablya Title of Talk (Online): Bijection between simple directed lattice paths and AND/OR tree structures

11:30 – 12:00	Poster 1 Presenter: Fares Alazemi Title of Poster 1: Wasserstein bounds in the CLT of the MLE for the drift coefficient of a stochastic partial differential equation	Poster 2 Presenter: Mansoor H. Alshehri Title of Poster 2: Investigation of copper filled carbon nanotubes	11:50 – 12:00	Speaker: Yuriy Shablya Title of Talk (Online): Relationship between combinatorial sets, generating functions and combinatorial generation algorithms
12:00 – 13:30	Lunch Break			
Parallel Sessions (2 Physical + 1 Online)				
	Hall 1 Chairman: Mustafa Alkan	Hall 2 Chairman: Erkan Agyuz	Virtual Hall + Hall 3 Chairman: Elif Çetin	
14:00 – 14:10	Speaker: Elif Sukruoglu Title of Talk: A note on Generalized Szász-Schurer-Baskakov operator with their applications	Speaker: Nohyun Kim Title of Talk: Convolution sums involving restricted divisor functions for coprime conditions	Speaker: Neda Lovričević Title of Talk (Online): Taylor interpolation formula and Jensen-type inequalities' improvements	
14:10 – 14:20	Speaker: Damla Gün Title of Talk: Relations of exponential Euler spline associated with special numbers and polynomials	Speaker: Soungdouk Lee Title of Talk: Some formula by convolution sums and the inverse divisor functions for coprime conditions	Speaker: Omar Y. Khattab Title of Talk (Online): g_{α} -Expansion Mappings in Topological Spaces	
14:20 – 14:30	Speaker: Ezgi Polat Title of Talk: Some certain families of special polynomials derive from linear matrix form of transformation the using of rational numbers	Speaker: Jun Cao Title of Talk: Mathematical modeling and numerical simulation on tornado dynamics	Speaker: Mehnaz Haneef Title of Talk (Online): Degenerate general bivariate Appell polynomials: Properties and Applications	
14:30 – 14:40	Speaker: TBA Title of Talk: TBA	Speaker: TBA Title of Talk: TBA	Speaker: Şüayip Yüzbaşı Title of Talk (Online): A new approximation method for Multi-Pantograph type delay differential equations using Hermite polynomials	
Parallel Sessions (All Physical)				
	Hall 1 Chairman: Daeyeoul Kim	Hall 2 Chairman: Rükan G. Altürk		
15:00 – 15:10	Speaker: Lahcen Oussi Title of Talk: Remarks on Degenerate Simsek Numbers	Speaker: Zelal Temel Title of Talk: Second-Order Numerical Method for Solving Singularly Perturbed Volterra Integro-differential Equation		
15:10 – 15:20	Speaker: Irem Kucukoglu Title of Talk: Closed-form evaluation of some series involving the Dirichlet characters and the numbers counting Lyndon words	Speaker: Andreea Fulga Title of Talk: Some fixed point theorems in super-metric space		

15:20 – 15:30	Speaker: Neslihan Kilar Title of Talk: Identities on Simsek numbers: Approach to generating functions with Faà di Bruno's formula	Speaker: Ryotaro Okazaki Title of Talk: An application of Hermite Interpolation in Explicit Equation of Algebraic Curves	
15:30 – 15:40	Speaker: Elif Bozo Title of Talk: Formulas derived from relationships between derangement numbers and the Peters-type Simsek numbers of the second kind	Speaker: TBA Title of Talk: TBA	
15:40 – 15:50	Speaker: Irem Kucukoglu Title of Talk: On Peters-type Simsek numbers and polynomials attached to the Dirichlet character	Speaker: TBA Title of Talk: TBA	
15:50 – 16:00	Speaker: Neslihan Kilar Title of Talk: Observations on asymptotic expressions for combinatorial Simsek numbers	Speaker: TBA Title of Talk: TBA	
16:00 – 16:15	Coffee Break		
Parallel Sessions (All Physical)			
	Hall 1 Chairman: Jun Cao	Hall 2 Chairman: Irem Kucukoglu	Hall 3 Chairman: Neslihan Kilar
16:15 – 16:25	Speaker: Bayram Bala Title of Talk: Direct and inverse discrete Sturm-Liouville problems with finitely many points of discontinuity	Speaker: Mustafa Alkan Title of Talk: Palindrome Composition Sets and the patterns	Speaker: Fusun Yalcin Title of Talk: Recent trends to the problem of heteroscedastity in regression analysis
16:25 – 16:35	Speaker: Abdullah Kablan Title of Talk: Fractional periodic discontinuous Sturm-Liouville problem with eigenparameter in the boundary condition	Speaker: Erkan Agyuz Title of Talk: A note on the recent development of Positive-Linear Operators Involving Special Polynomials	Speaker: Berna Cayhan Title of Talk: Regression analysis of chemical compound of Hurma region spring water
16:35 – 16:45	Speaker: Qiu-Ming Luo Title of Talk: The dissections and modular equations for the Ramanujan-Selberg continued fraction	Speaker: Busra Al Title of Talk: Compositions of integers whose each part is smaller than a positive integers	Speaker: Özge Özer Atakaoğlu Title of Talk: Using Multivariate Statistical Analyzes in Geochemical Data: Example of Lead-Zinc Deposit
16:45 – 16:55	Speaker: Yonghyeon Jeon Title of Talk: Order reduction mitigating predictor-corrector strategy for fractional differential equations	Speaker: Abdelmejid Bayad Title of Talk: Partitions Functions and Zetas Functions	Speaker: Caner Atakaoğlu Title of Talk: Investigation of the Effect of Supply Methods on Fresh Fruit and Vegetable Product Purchase Prices
16:55 – 17:05	Speaker: TBA Title of Talk: TBA	Speaker: TBA Title of Talk: TBA	Speaker: İmge Özer Title of Talk: Data Minimization in Scientific Research

17:05 – 17:15	Speaker: TBA Title of Talk: TBA	Speaker: TBA Title of Talk: TBA	Speaker: Yasemin Leventeli Title of Talk: An example of predicting mass movements with mathematical models: Suluada-Antalya-Turkey
17:15 – 17:25	Speaker: TBA Title of Talk: TBA	Speaker: TBA Title of Talk: TBA	Speaker: Emine Şükran Okudan Title of Talk: Regression Analysis of Heavy Metal Content of Macroalgae in the Gulf of Antalya
17:30	Closing Ceremony (Hall 1 + Virtual Hall)		
19:30	Gala Dinner The Ibis Styles Hotel Évry		
August 26, 2023 (Saturday)			
On Free discussion of participants in the spirit of the conference.			
August 27, 2023 (Sunday)			
Excursion from the university campus and city museums individually and with your own participant on your own plan.			