

GFSNP 2023 - SYMPOSIUM PROGRAM

THE 13th SYMPOSIUM ON GENERATING FUNCTIONS OF SPECIAL NUMBERS AND POLYNOMIALS AND THEIR APPLICATIONS DEDICATED TO PROFESSOR YILMAZ SIMSEK ON THE OCCASION OF HIS 60th ANNIVERSARY

ANTALYA, TURKEY, MARCH 11–13, 2023

Symposium Venue

Sherwood Exclusive Lara Hotel, Antalya, TURKEY

Important Notes

- The Symposium will be held as a hybrid event, including both physical and virtual presentations.
- Time zone for Symposium is GTM +3 (Istanbul time).
- The Hall 1-3 represents the physical rooms in the symposium hotel.
- The Virtual Hall A and the Virtual Hall B represents the class opened in the platform used for online presentations.
- In order for physical participants to follow the virtual presentations; all virtual conversations in the Virtual Hall A will be projected to the screen of the Hall 1 and all virtual conversations in the Virtual Hall B will also be projected to the screen of the Hall 1.

March 11, 2023 (Saturday)

10:00 – 11:30

Registration

Parallel Sessions (Virtual)

Virtual Hall A (Online)
Chairman: Neslihan Kilar

Virtual Hall B (Online)
Chairman: Rahime Dere

11:30 – 11:45

Speaker: Hye Kyung Kim
Title of Talk (Online): The higher-order new Fubini-type numbers and polynomials

Speaker: Oulia Bouhoufani
Title of Talk (Online): A coupled system of nonlinear hyperbolic equations with weak damping and variable exponents: global wellposedness and decay

11:45 – 12:00

Speaker: Erkan Agyuz
Title of Talk (Online): A note on positive linear operators obtained with the help of the generating functions method

Speaker: Baya Laadjal
Title of Talk (Online): Bifurcation analysis in a fractional discrete predator-prey model

12:00 – 12:15

Speaker: Yagub N. Aliyev
Title of Talk (Online): Catalan numbers and digits of square root of repunit numbers

Speaker: Oulia Bouhoufani
Title of Talk (Online): Blow up of solutions with positive-initial data of an hyperbolic coupled system with strong nonlinearities

12:15 – 12:30

Speaker: Yuriy Shablya
Title of Talk (Online): Development of combinatorial generation algorithms for discrete structures associated with the Fubini numbers

Speaker: Valdete Loku
Title of Talk (Online): Some applications of the Korovkin type theorems

12:30 – 14:00	Lunch Break	
	Virtual Session	
	Virtual Hall A (Online) Chairman: Neslihan Kilar	Virtual Hall B (Online) Chairman: Mustafa Alkan
14:00 – 14:15	Speaker: Nino Samashvili Title of Talk (Online): Approximation problem in Musielak-Orlicz spaces	Speaker: No Hyun Kim Title of Talk (Online): A study of the properties of completely multiplicative functions using Dirichlet convolution
14:15 – 14:30	Speaker: Sabah Baibeche Title of Talk (Online): On the stability of transmission problem for wave equations under effects of microtemperatures in the presence of distributed delay	Speaker: Su Yeon Kong Title of Talk (Online): A property of double Dirichlet convolution sums of arithmetical functions
14:30 – 14:45	Speaker: Halima Kadari Title of Talk (Online): Multiple positive solutions for an impulsive systems with three point boundary	Speaker: Manuel López-Pellicer Title of Talk (Online): Some observations on Baire-type properties in metrizable $c_0(\Omega, X)$
14:45 – 15:00	Coffee Break	
	Virtual Session	
	Virtual Hall A (Online) Chairman: Neslihan Kilar	Virtual Hall B (Online) Chairman: Mustafa Alkan
15:00 – 15:15	Presenter: Benkhedda Hanane Title of Poster (Online): Global existence and energy decay of solutions to a wave equation with a dynamic boundary dissipation of fractional derivative type	Speaker: Marya Perminova Title of Talk (Online): Development of an algorithm for decomposition generating functions
15:15 – 15:30	Presenter: Karima Bessiod Title of Poster (Online): Periodicity in nonlinear neutral mixed type Levin-Nohel integro-differential equations	Speaker: Vladimir Kruchinin Title of Talk (Online): Identities for the Harmonic numbers
15:30 – 15:45	Presenter: Tahmi Nabil Title of Poster (Online): Remarks on some multiple Dirichlet series of completely multiplicative arithmetic functions	
15:45 – 16:00	Coffee Break	
	Invited Talks (Virtual)	
16:00 – 16:20	Virtual Hall A - Chairman: Aykut Ahmet Aygunes	
	Invited Speaker: Dmitry Kruchinin Title of Talk (Online): An electronic encyclopedia of number pyramids for the generating functions	
16:20 – 16:40	Virtual Hall A - Chairman: Yilmaz Simsek	
	Invited Speaker: Gradimir V. Milovanović Title of Talk (Online): Orthogonal polynomials and inequalities of Wirtinger's type	

16:40 – 17:00	Virtual Hall A - Chairman: Neslihan Kilar	
	Invited Speaker: Mehmet Ali Özarslan Title of Talk (Online): Univariate q -multiple Appell polynomials	
17:00 – 17:10	Coffee Break	
Invited Talks (Virtual)		
17:10 – 17:30	Virtual Hall A - Chairman: Neslihan Kilar	
	Invited Speaker: Clemente Cesarano Title of Talk (Online): Some results of new generalized Apostol-type Frobenius–Euler polynomials	
17:30 – 17:50	Virtual Hall A - Chairman: Irem Kucukoglu	
	Invited Speaker: Jeffrey O. Shallit Title of Talk (Online): New results in additive number theory via automata and combinatorics on words	
17:50 – 18:00	Coffee Break	
Parallel Sessions (Physical)		
	Hall 1 Chairman: Figen Öke	Hall 2 Chairman: Öznur Kulak
18:00 – 18:15	Speaker: Ezgi Polat Title of Talk: Notes on Bernoulli polynomials associated with linear map on the set of rational numbers	Speaker: Füsün Yalçın Title of Talk: Factor analysis and assumptions from multivariate statistical methods
18:15 – 18:30	Speaker: Elif Bozo Title of Talk: Some new formulas derived from generating function for derangement numbers	Speaker: Niyazi Uğur Koçkal Title of Talk: Numerical analysis of effect of recycled aggregate particle size on concrete properties
18:30 – 18:45	Speaker: Beyza Çetin Title of Talk: A new approximation method to solve linear pantograph equations with nonhomogeneous	Speaker: Aykut Ahmet Aygunes Title of Talk: Exponential function emerging from the partial Hecke operator
18:45 – 19:00	Speaker: Rahime Dere Title of Talk: A note on the Narumi polynomials	Speaker: Nurten Uurlu Özalan Title of Talk: The second omega index for special graph product
March 12, 2023 (Sunday)		
Invited Talk (Physical)		
10:00 – 10:20	Hall 1 - Chairman: Mustafa Alkan	
	Invited Speaker: Ismail Naci Cangul Title of Talk: The number of realizations of a degree sequence	

10:30 – 12:30	<p style="text-align: center;">Dedication Ceremony Hall 1 (Physical) - Virtual Hall A (Online) (Dedication Ceremony and related speeches, Prof. Yilmaz SIMSEK's Presentation) Title of Professor Simsek's Talk: Observations on certain families of generating functions with their performers</p>
12:30 – 12:45	<p style="text-align: center;">Symposium Group Photo Shoot (The shoot location: Hall 1 (Physical))</p>
12:45 – 14:00	<p style="text-align: center;">Lunch Break</p>
	<p style="text-align: center;">Invited Talks (Physical)</p>
14:00 – 14:30	<p>Hall 1 - Chairman: Yilmaz Simsek Invited Speaker: Tibor K. Pogány Title of Talk: Observations on truncation error upper bounds in derivative Whittaker–type sampling reconstruction</p>
14:30 – 15:00	<p>Hall 1 - Chairman: Irem Kucukoglu Invited Speaker: Emin Özçağ Title of Talk: Results on some distributional compositions via Fisher's method</p>
15:00 – 15:15	<p style="text-align: center;">Coffee Break</p>
	<p style="text-align: center;">Invited Talks (Physical)</p>
15:15 – 15:45	<p>Virtual Hall A - Chairman: Yilmaz Simsek Invited Speaker: Naim L. Braha Title of Talk (Online): Korovkin type theorems and some applications</p>
15:45 – 16:15	<p>Hall 1 - Chairman: Emin Özçağ Invited Speaker: Figen Öke Title of Talk: On lifting polynomials and distinguished pairs</p>
16:15 – 16:30	<p style="text-align: center;">Coffee Break</p>
	<p style="text-align: center;">Invited Talks (Physical)</p>
16:30 – 17:00	<p>Hall 1 - Chairman: Niyazi Uğur Koçkal Invited Speaker: Mustafa Gurhan Yalcin Title of Talk: Rare earth element contents on Yolán Plateau in comparison with other plateaus, Cameroon</p>
17:00 – 17:30	<p style="text-align: center;">Dedication Cocktail (Will be held on the terrace of the Breezes lounge)</p>

Parallel Sessions (Physical)		
	Hall 1	Hall 2
	Chairman: Hacer Özden Ayna	Chairman: Ayşe Yılmaz Ceylan
	Speaker: Elif Çetin	Speaker: Öznur Kulak
17:30 – 17:45	Title of Talk: A Note on trigonometric identities of the special finite sums	Title of Talk: On the some variable exponent function spaces with different measures
	Speaker: Hacer Özden Ayna	Speaker: İrem Adıyaman
17:45 – 18:00	Title of Talk: Remarks on line graphs related to omega invariant	Title of Talk: Multilinear multipliers on some weighted function spaces
	Speaker: Ahmet Altürk	Speaker: Hamdullah Başaran
18:00 – 18:15	Title of Talk: A note on the generating function for Hermite polynomials	Title of Talk: Sharper Berezin radius inequality
	Speaker: Yağmur Çetin	Speaker: Mustafa Alkan
18:15 – 18:30	Title of Talk: Remarks on graph type polynomials involved in chemistry and linear recurrence relation	Title of Talk: A note on the odd combinations set of the positive integers
	Speaker: Elif Şükrüoğlu	Speaker: Seçil Bilgiç
18:30 – 18:45	Title of Talk: Generating functions for a new family of sequence	Title of Talk: On the second type unified Apostol-Bernoulli type polynomials
March 13, 2023 (Monday)		
Parallel Sessions (Physical)		
	Hall 1	
	Chairman: Elif Çetin	
	Speaker: İrem Kucukoglu	
10:00 – 10:15	Title of Talk: Multiparametric Hermite-based Simsek polynomials	
	Speaker: Neslihan Kılar	
10:15 – 10:30	Title of Talk: Some novel formulas for special numbers via trigonometric functions	
	Speaker: Damla Gun	
10:30 – 10:45	Title of Talk: Formulae for exponential Apostol-Genocchi splines	
	Speaker: Eda Yülüklü	
10:45 – 11:00	Title of Talk: A note on Hermite base combinatorial polynomials and numbers	
11:00 – 11:10	Coffee Break	
Invited Talks (Virtual)		
	Virtual Hall A - Chairman: Neslihan Kılar	
	Invited Speaker: Taekyun Kim	
11:10 – 11:30	Title of Talk 1 (Online): Identities on degenerate hyperharmonic numbers	
	Title of Talk 2 (Online): Study on moments of degenerate and zero-truncated degenerate Poisson random variables	
	Virtual Hall A - Chairman: Neslihan Kılar	

11:30 – 11:50	<p>Invited Speaker: Subuhi Khan Title of Talk (Online): Umbral Approach to generalized Bessel functions</p>
11:50 – 12:00	Coffee Break
	Invited Talk (Virtual)
12:00 – 12:20	<p>Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Daeyeoul Kim Title of Talk (Online): Dirichlet convolution and Triangular number</p>
	A Contributor Talk (Virtual)
	<p>Virtual Hall A Chairman: Neslihan Kilar Speaker: Mehnaz Haneef</p>
12:20 – 12:30	Title of Talk (Online): Post quantum-Sheffer sequences: properties and applications
12:30 – 14:00	Lunch Break
	Invited Talks (Virtual)
14:00 – 14:20	<p>Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Abdelmejid Bayad Title of Talk1 (Online): Elliptic Bernoulli functions and Jacobi modular forms Title of Talk2 (Online): Arithmetic of Fekete polynomials Title of Talk3 (Online): Note on square-free integers values of polynomials</p>
14:20 – 14:40	<p>Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Chandrashekar Adiga Title of Talk (Online): Ramanujan-type congruences for 7 and 49 - regular partitions modulo powers of 7</p>
14:40 – 14:50	Coffee Break
	Invited Talks (Virtual)
14:50 – 15:10	<p>Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Ahmet Sinan Cevik Title of Talk (Online): A consequence of deficiencies on monoids</p>
15:10 – 15:30	<p>Virtual Hall A - Chairman: Neslihan Kilar Invited Speaker: Nenad P. Cakic Title of Talk (Online): New results on generalized Stirling numbers</p>
15:30	<p>Closing Ceremony Hall 1 (Physical) - Virtual Hall A (Online)</p>