

International Conference on Mathematics and Mathematics Education (ICMME-2021), Gazi University, Ankara, September 16-18 2021 **"Mathematics in the footsteps of Gazi**"



INTERNATIONAL CONFERENCE

ON MATHEMATICS AND MATHEMATICS EDUCATION

ONLINE PROGRAMME

16 September 2021 Thursday (Time zone:UTC+3 / İstanbul)

OPENING CERE	MONY
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Please click here to join the Opening Ceremony Video Conferencing		
	Assos. Prof. Dr. Hasan Hüseyin SAYAN (Head of MATDER)	
	Prof. Dr. Naim TUĞLU (Head of Mathematics Department	
10:30-11:00	Prof. Dr. Suat KIYAK (Dean of Science Faculty)	
	Prof. Dr. Musa YILDIZ (Rector of Gazi University)	

	PLENARY LECTURE		
	Please click here to join the Plenary Lecture ZOONO Video Conferencing Video Conferencing		
Chair: Prof. Dr. Ömer AKIN			
	Invited Spiker: Prof. Dr. Vatan KARAKAYA		
11:10-11:50	"An Assessment on the Place of Mathematical Knowledge Between Form and Metaphysics"		

PLENARY LECTURE		
Please click here to join the Plenary Lecture ZOONO Video Conferencing		
Chair: Prof. Dr. M. Tamer KOŞAN		
	Invited Spiker: Assoc. Prof. Dr. Jan Zemlicka	
13:30-14:10	"Self-Small Products of Abelian Groups"	

16 September 2021 Thursday SESSION I / 14:20-15:40 (Time zone: UTC+3 / İstanbul)

HALL 1	Please click here to join the Hall	
		Chair: Prof. Dr. Ayhan ŞERBETCİ
Time	Author(s)	Title
14:20-14:40	<u>Serkan Ayan</u> Nurhayat İspir	Rate of Convergence by Bivariate Generalized Kantorovich Type Sampling Series
14:40-15:00	Şule Yüksel Güngör	Approximation by Some Kantorovich Type Max-Product Operators
15:00-15:20	Abdulhamit KüçükaslanSpanne-type Result for the Generalized Fractional Maximal Operator in the Vanishing Generalized Weighted Local Morrey Spaces	
15:20-15:40	Abdulhamit Küçükaslan An Extension of the Adams-type Theorem to Vanishing Generalized Weighted Morrey Spaces	

HALL 2	Please click here to join the Hall Zoomo	
		Chair: Prof. Dr. Fatma AYAZ
Time	Author(s)	Title
14:20-14:40	<u>Derya Arslan</u> , Ömer Akın	Numerical Analysis of Singularly Perturbed Problems with Integral Boundary Conditions
14:40-15:00	Agâh Akın, <u>Harun Baldemir</u> , Ömer Akın	A Mathematical Investigation of COVID-19 in Turkey Using a Susceptible Infectious Recovered (SIR) Type Model
15:00-15:20	Mesrur Ümit Bingöl, <u>Sanem Akdeniz Şafak,</u> Ömer Akın	Fuzzy Similarity of Subalpine, Steppe and Segetal Vegetation for Black Sea Region in Turkey
15:20-15:40	Selami Bayeğ, <u>Nurettin Doğan</u> , Raziye Mert, Ömer Akın	Singularly Perturbed Fuzzy Initial Value and Fuzzy Boundary Value Problems

16 September 2021 Thursday SESSION I / 14:20-15:40 (Time zone: UTC+3 / İstanbul)

HALL 3	Please click here to join the Hall Zoome	
		Chair: Prof. Dr. Ercan ALTINIŞIK
Time	Author(s)	Title
14:20-14:40	Oğuz Alkış, Ahmet	N-Barely Transitive Groups
	Arıkan,	
	Aynur Arıkan	
14:40-15:00	<u>Oğuz Alkış,</u> Ahmet	NC-Barely Transitive Groups
	Arıkan,	
	Aynur Arıkan	
15:00-15:20	Rümeysa Sacide Altınkaya	On the Finitary Permutation Groups
	Aynur Arıkan	
15:20-15:40	Engin Özkan, <u>Mine Uysal</u> ,	On the Catalan Transforms of the Incomplete Jacobsthal Numbers
	Bahar Kuloğlu	

HALL 4	Please click here to join the Hall ZOOM	
		Chair: Prof. Dr. Devrim ÇAKMAK
Time	Author(s)	Title
14:20-14:40	<u>Semih Çavuşoğlu,</u>	Modified Finite Difference Method for Solution of Two-interval Boundary Value Problems with Transition
	Oktay Sh. Mukhtarov	Conditions
14:40-15:00	<u>Rıdvan Yaprak</u> ,	A Slough/Wound Interaction Model Accounting for Cellular Diffusion
	Erhan Coşkun	
15:00-15:20	Derya Sekman, Vatan	On Controlling Chaos for Multi-Step Iteration Process and Its Special Iterations in Discrete Dynamical
	Karakaya	Systems
15:20-15:40	Hazal Yüksekkaya,	Nonexistence of Global Solutions for a Hyperbolic-Type Wave Equation With Delay
	Erhan Pişkin	

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	PLENARY LECTURE		
Please click here to join the Plenary Lecture ZOONO Video Conferencing			
Chair: Prof. Dr. Ömer AKIN			
	Invited Spiker: Prof. Dr. Allaberen ASHYRALYEV		
15:50-16:30	"Time-Dependent Source İdentification Problem for Schrodinger Differential and Difference Equations		

16 September 2021 Thursday SESSION II / 16:40-18:20 (Time zone: UTC+3 / İstanbul)

HALL 1		Please click here to join the Hall	ZOOM Video Conferencing
		Chair: Assoc. Prof. Dr. İsmet ALTINTAŞ	
Time	Author(s)	Title	
16:40-17:00	Fadime Gökçe	On Absolute Fibonacci Series Space and Matrix Operators	
17:00-17:20	Fadime Gökçe	On the Absolute Euler Summability Factors	
17:20-17:40	Gürhan Soylu	Approximation Properties of Generalized Jain Operators of Two Variables	
17:40-18:00	İsmail Ekincioğlu, Cansu Keskin, <u>Züleyha Açelya Üçer</u> ,	On the Multilinear Riesz Bessel Transforms on Morrey Spaces	
18:00-18:20	Rosalio Jr. Artes	Cycle Neighborhood Polynomial of Graphs	

16 September 2021 Thursday SESSION II / 16:40-18:20 (Time zone: UTC+3 / İstanbul)

HALL 2	Please click here to join the Hall ZOOMC Video Conferencing	
		Chair: Assoc. Prof. Dr. Nurettin DOĞAN
Time	Author(s)	Title
16:40-17:00	Muhammet Yazıcı	Decay Estimate for the Klein-Gordon Equation in Anti de Sitter Spacetime
17:00-17:20	Bahatdin Daşbaşı	On stability of the bacterial infection model through incommensurate fractional-order system
17:20-17:40	Ilhame Amirali, Gabil M. Amiraliyev, <u>Hülya Acar</u>	Fitted Numerical Method for a Volterra Delay Integro-Differential Equation
17:40-18:00	Yakup Yıldırım	Sub Pico-Second Optical Solitons in Birefringent Fibers with Kaup-Newell Equation by Two Strategic Integration Technologies
18:00-18:20	Maja Nedović	On semi-Nekrasov matrices

HALL 3	Please click here to join the Hall	
		Chair: Prof. Dr. Mustafa ÇALIŞKAN
Time	Author(s)	Title
16:40-17:00	<u>Anıl Altınkaya,</u>	Bertrand Curves and B-Lift Curves in Lorentzian 3-Space
	Mustafa Çalışkan	
17:00-17:20	Pooja Swaroop Saxena	A Study on Zermelo Navigation Problem and the Curvature Properties on Conic Kropina Manifolds
17:20-17:40	Kebire Hilal Ayvacı,	Some Special Smarandache Ruled Surfaces According to Flc Frame in E ³
	Süleyman Şenyurt,	
	Davut Canlı	
17:40-18:00	Aysel Turgut Vanlı	The Properties of Projective, Concircular and Conharmonic Curvature Tensor Fields on the Complex
		Sasakian Manifold
18:00-18:20	Aytekin Enver,	
	Fahd Jarad, Fatma Ayaz,	Biquadratic C ² Spline and Caputo Fractional Order Derivative
	Nilay Akgönüllü Pirim	

16 September 2021 Thursday SESSION II / 16:40-18:20 (Time zone: UTC+3 / İstanbul)

HALL 4	Please click here to join the Hall				
	Chair: Prof. Dr. Hüseyin YILDIRIM				
Time	Author(s)	Title			
16:40-17:00	Zeynep Çakmak Gürel	The Opinions of Secondary School Students' Parents about Mathematics Course in Distance Education			
17:00-17:20	<u>Aybige Arabacı,</u> Keziban Orbay	The Effects Of Activities Carried Out With Web 2.0 Tools On Some Field Competencies Of Mathematics Teacher Candidates			
17:20-17:40	<u>B. Damla Baber Elbistan,</u> Kolja Pustelnik	On the Development of Planning Ability in Problem Solving from Grades 5 through 7			
17:40-18:00	Habip Mehmet Sevgi	Assessment of the Online Course Process During the Pandemic Period from the Perspective of Instructor (Mathematics Teacher)			
18:00-18:20	Sare Şengül, <u>Dilara Yılmaz</u>	Pre-service and In-service Teachers' Proof Schemes and Their Opinions on Mathematical Proof			

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PLENARY LECTURE				
	Please click here to join the Plenary Lecture ZOONO Video Conferencing Video Conferencing			
Chair: Prof. Dr. Sare ŞENGÜL				
	Invited Spiker: Prof. Dr. Erdinç ÇAKIROĞLU			
10:00-10:40	"Sayı Duyusunun Gelişimi ve Matematiksel Yeterlikler"			

17 September 2021 Friday SESSION III / 10:50-12:10 (Time zone: UTC+3 / İstanbul)

HALL 1	Please click here to join the Hall Zoomo				
	Chair: Prof. Dr. İsmail EKİNCİOĞLU				
Time	Author(s)	Title			
10:50-11:10	Sezer Erdem,	Matrix Transformations and Some Algebraic and Topological Properties Related to the New Catalan Double			
	Serkan Demiriz	Sequence Space			
11:10-11:30	Sezer Erdem,	Some Results Related to New Jordan Totient Double Sequence Spaces			
	Serkan Demiriz				
11:30-11:50	Gencay Oğuz	Some Mean Ergodic Type Theorems			
11:50-12:10	Rahime Dere Paçin	Some Operator Identities on the Umbral Algebra			

HALL 2		Please click here to join the Hall Zoomo Video Conferencing			
	Chair: Prof. Dr. Meryem KAYA				
Time	Author(s)	Title			
10:50-11:10	Ersan Erdem,	Analysis of Covid-19 epidemic in Turkey using Generalized SEIR Model			
	Gülnur Çelik Kızılkan				
11:10-11:30	Gonca Çelikten	Implicit Exponential Finite Difference Method for Numerical Solutions of Modified Burgers Equation			
11:30-11:50	Josipa Barić,	rić, Hermite-Hadamard -Fejér type inequalities for higher order convex functions and quadrature formulae			
	Ljiljanka Kvesić,				
	Josip Pečarić,				
	Mihaela Ribičić Penava				
11:50-12:10	Qing-Bo Cai,	The Asymptotic Behavior for Generalized λ - Bernstein-Stancu Type Operators			
	<u>Gülten Torun,</u>				
	Ülkü Dinlemez Kantar				

17 September 2021 Friday SESSION III / 10:50-12:10 (Time zone: UTC+3 / İstanbul)

HALL 3	Please click here to join the Hall ZOON	
		Chair: Prof. Dr. Keziban ORBAY
Time	Author(s)	Title
10:50-11:10	<u>Çağla Ramis</u> , Yusuf Yaylı	Generating Circle-Foliated Transition Surfaces in Lorentz Space
11:10-11:30	<u>Aslıhan İklim Şen,</u> Mustafa Saltan	On Some Closed Sets and Circles of the Added Sierpinski Triangle
11:30-11:50	Halil İbrahim Yoldaş	Some Notes on N(k)-contact Metric Manifolds
11:50-12:10	<u>Davut Canlı</u> , Süleyman Şenyurt, Kebire Hilal Ayvacı	An Extension of Smarandache Ruled Surfaces According to Frenet Frame in E ³

HALL 4	Please click here to join the Hall ZOOMC Video Conferencing				
	Chair: Prof. Dr. Mustafa KANDEMİR				
Time	Author(s)	Title			
10:50-11:10	Sare Şengül,	The Field Experiences on the Online Application of the Case Study Method in Mathematics Lesson			
	Gülşah Gerez Cantimer				
11:10-11:30	Gülşah Gerez Cantimer, The Investigation of Studies on Case Study Method in Education				
	Sare Şengül				
11:30-11:50	Göksu İnan, An Application On Comparison of Student Achievements in Face-to-Face and Online Education Models in				
	Zeynep Hande Toyganözü,	University Mathematics Education			
	Cüneyt Toyganözü				
11:50-12:10	H. Elif Dağlıoğlu,	Translation of the Digital Game Critter Corral into Turkish and Its Evaluation in Terms of Mathematics			
	<u>Hilal Genç Çopur</u>	Education Standards and Appropriateness for Children			

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	PLENARY LECTURE				
	Please click here to join the Plenary Lecture ZOONC Video Conferencing Video Conferencing				
	Chair: Prof. Dr Fatma AYAZ				
	Invited Spiker: Prof. Dr. Matthias HEIL				
13:40-14:20	"Flows Past Cylinders: Are The Transitions Between Different Flow Regimes Caused by A Continuous Evolution or by Bifurcations?"				

17 September 2021 Friday SESSION IV / 14:30-15:50 (Time zone: UTC+3 / İstanbul)

HALL 1	Please click here to join the Hall ZOOM	
		Chair: Prof. Dr. Birol ALTIN
Time	Author(s)	Title
14:30-14:50	Bahri Turan, <u>Kazım Özcan</u>	Order Boundedness of Ideal Operator
14:50-15:10	<u>Abdullah Akkurt,</u> Fatih Korkmaz, Hüseyin Yıldırım	Generalized Fractional Integral Inequalities on Convex Functions
15:10-15:30	Ayşegül Keten Çopur, <u>Fatma Özceran</u>	Some Results Based on (p,r)-Compact Sets in Banach Spaces
15:30-15:50	Aynur Keskin Kaymakçı, <u>Ayşe Nazlı Uresin</u>	Upper and Lower θp-continuous Multifunctions

17 September 2021 Friday SESSION IV / 14:30-15:50 (Time zone: UTC+3 / İstanbul)

HALL 2	Please click here to join the Hall ZOOM				
	Chair: Prof. Dr. Adil MISIR				
Time	Author(s)	Title			
14:30-14:50	<u>Özge Kazar,</u> Meryem Kaya	Global Existence and Uniqueness of The Inviscid Velocity-Vorticity Model of The g-Navier-Stokes Equations			
14:50-15:10	Enes Ata, İ. Onur Kıymaz	New Fractional Operators Including Wright Function in Their Kernels			
15:10-15:30	Ali Yakar, <u>Hadi Kutlay</u>	A Note on Monotone Technique for a class of Fractional Integro-Differential Equations			
15:30-15:50	<u>Zeliha Özdemir,</u> Kemâl Aydın	Numerical Integration of System of Differential Equations by Iterative Decreasing Dimension Algorithm			

HALL 3		Please click here to join the Hall Zoomo Video Conferencing			
	Chair: Prof. Dr. Mustafa Fahri AKTAŞ				
Time	Author(s)	Title			
14:30-14:50	Engin Özkan, <u>Mine Uysal</u>	A Generalization of Gaussian Pell-Lucas Polynomials			
14:50-15:10	Selami Ercan	Groups whose proper factor-groups are Fitting			
15:10-15:30	Yüksel Soykan, <u>Erkan Taşdemir,</u> Tülin Erdoğan Taşdemir	A Note on Sum Formulas of Generalized Hexanacci Numbers: Closed Forms of the Sum Formulas $\sum_{k=0}^{n} kx^{k}W_{k}$ and $\sum_{k=1}^{n} kx^{k}W_{-k}$			
15:30-15:50	Yüksel Soykan, Erkan Taşdemir, Melih Göcen	A Note on Sum Formulas of Generalized Pentanacci Sequence: Closed Forms of the Sum Formulas $\sum_{k=0}^{n} kx^{k}W_{k}$ and $\sum_{k=1}^{n} kx^{k}W_{-k}$			

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HALL 4		Please click here to join the Hall Zoomo Video Conferencing
		Chair: Prof. Dr. Ercan ÇELİK
Time	Author(s)	Title
14:30-14:50	<u>Fercan Filiz</u> , Erbil Çetin	Existence of Solutions for a Third-order Boundary Value Problem with Integral Boundary Conditions on Infinite Intervals
14:50-15:10	<u>Gülnur Haçat</u> , Mine Akbaş, Aytekin Çıbık	Analysis of Continuous Data Assimilation Scheme for the Navier-Stokes Equations Using Variational Multiscale Method
15:10-15:30	Faton Merovci	The Poisson Topp Leone Generalized Exponential Distribution
15:30-15:50	Faton Merovci	The Marshall–Olkin ,Transmuted Rayleigh Distribution. Statistical Properties and Different Methods of Estimation

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	PLENARY LECTURE			
	Please click here to join the Plenary Lecture ZOONO Video Conferencing			
	Chair: Assoc. Prof. Dr. H. Mehmet BAŞKONUŞ			
	Invited Spiker: Prof.Dr. Zakia Hammouch			
16:00-16:40	"An Efficient Algorithm to Solve Nonlinear Reaction-Diffusion Problems With Non-İnteger Order Derivatives"			

17 September 2021 Friday SESSION V / 16:50-18:30 (Time zone: UTC+3 / İstanbul)

HALL 1		Please click here to join the Hall				
Chair: Prof. Dr. Aynur ARIKAN						
Time	Author(s)	Title				
16:50-17:10	Naim Tuğlu, <u>Elif Ercan</u>	Some Properties of Apostol Bernoulli Fibonacci and Apostol Euler Fibonacci Polynomials				
17:10-17:30	<u>Tuğçe Pekacar Çalcı,</u> Huanyin Chen, Sait Halıcıoğlu, Guo Shile	Linear Maps Preserving Drazin Inverses of Matrices Over Local Rings				
17:30-17:50	Filiz Çıtak	Some Notes on Soft Modules in Soft Sets				
17:50-18:10	<u>Seval Işık,</u> Figen Kangalgil	Behavioural Analysis of a Predator-Prey Model				
18:10-18:30	<u>Feda İlhan,</u> Figen Kangalgil	On Stability Analysis and Flip Bifurcation of a Discrete-Time Predator-Prey System with Allee Effect and Prey Immigration				

HALL 2	Please click here to join the Hall					
	Chair: Prof. Dr. Cengiz ÇİNAR					
Time	Author(s)	Title				
16:50-17:10	Nida Palamut Koşar	On Some Applications of Korovkin Type Theorem for k-Positive Linear Operators				
17:10-17:30	<u>Melek Eriş Büyükkaya,</u> Nesrin Güler, Melike Yiğit	Some Remarks on Predictors in Reduced Linear Models				
17:30-17:50	<u>Melek Eriş Büyükkaya,</u> Nesrin Güler, Melike Yiğit	Some Further Properties of BLUPs in SUR Models				
17:50-18:10	Galina Lyutskanova- Zhekova	Parametric Identification in ODE Models as a Tool for Solving Real-world Problems				
18:10-18:30	<u>Burak Oğul,</u> Dağıstan Şimşek	Dynamical Behavior of Rational Difference Equation $x_{n+1} = \frac{x_{n-11}}{\pm 1 \pm x_{n-1}x_{n-3}x_{n-5}x_{n-7}x_{n-9}x_{n-11}}$				

17 September 2021 Friday SESSION V / 16:50-18:30 (Time zone: UTC+3 / İstanbul)

HALL 3	Please click here to join the Hall		ZOOM CONferencing			
Chair: Prof. Dr. Cenap ÖZEL						
Time	Author(s)	Title				
16:50-17:10	Özgür Taşdemir	SIP-direct-injective Modules and Rings				
17:10-17:30	Tülay Yağmur	Complex (Gaussian) q-Fibonacci and Complex (Gaussian) q-Lucas Quaternions				
17:30-17:50	<u>Samet Sarıoğlan,</u> Selma Altınok	The Universal Difference Property for Generalized Splines over Principal Ideal Domains				
17:50-18:10	Abdullah Yener	Several Weighted Hardy type Inequalities with Robin Boundary Conditions				
18:10-18:30						

HALL 4	Please click here to join the Hall Zoomer Video Conferencing					
Chair: Prof. Dr. Fikret GÖLGELEYEN						
Time	Author(s)	Title				
16:50-17:10	Ebru Ersarı	Preservice High School Mathematics Teachers' Experiences on their Fieldwork During the COVID-19 Pandemic				
17:10-17:30	Ebru Ersarı	The Effectiveness of the Subject Area Textbook Review Course Amid the COVID-19 Pandemic				
17:30-17:50	Dilek Soysal, Majid Bani-Yaghoub	A Disease Modeling Approach to Simulate the Spread of Math Anxiety Between Students				
17:50-18:10	Tuğba Uygun	Development of Preservice Mathematics Teachers' TPACK through Digital Storytelling				
18:10-18:30	Burcu Parlak	Examining the Effects of Pre-school Education on Mathematics Achievement at Different Socioeconomic Levels: The Case of TIMSS 2019 Turkey				

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CLOSING CEREMONY				
	Please click here to join the Closing Ceremony	ZOOM C Video Conferencing		
18:30-19:30	The feelings and thoughts of the participants about the symposium and their expectations for the future			