

# ICMRS 2021 CONFERENCE PROGRAMME

(Updated 22.10.2021)

## FIRST DAY 22 October 2021

22.10.2021 FRIDAY	HALL 1	HALL 2
09.00-09.30	<b>OPENING CEREMONY</b>	
09.30-10.10	<b>HALL 1 Keynote Speaker: Prof. Dr. Abdon ATANGANA (CHAIR: Prof. Dr. Ahmet Ocak AKDEMİR)</b> Nonlocal behaviours in nature: Fractional, fractal and piecewise processes.	
10.20-11.00	<b>HALL 1 Keynote Speaker: Prof. Dr. Fikret ALIEV (CHAIR: Prof. Dr. Erhan SET)</b> Some mathematical problems and their solutions for the oscillating systems with liquid dampers (survey)	
11.15-11.30	Homogeneous q-difference equations for q-polynomials and some applications <b>Jian CAO</b>	Investigating the Performance of Almost Unbiased Estimators in Gamma Regression Model <b>Merve KORKMAZ</b>
11.30-11.45	Directional developable surfaces in Euclidean 3-Space <b>Yanlin LI</b>	Compliance performance of some growth models when they are logarithmic <b>Mehmet KORKMAZ</b>
11.45-12.00	Applications of Uhlmann phase of quantum mixed state in topological phase transition <b>Xuyang HOU</b>	Analyzing a West Nile Virus Model in the Sense of Atangana-Baleanu Fractional Operator <b>Mustafa Ali DOKUYUCU</b>
12.00-13.00	<b>BREAK</b>	
13.00-13.15	Investment and Oil Price Affect on Gross Domestic Product of Azerbaijan <b>Elnore SHAFIZADE</b>	Branches on Sheffer stroke Hilbert algebras <b>Tuğçe KATICAN</b>
13.15-13.30	Double-diffusive free convection flow of a rate type fluid <b>Azhar Ali ZAFAR</b>	Algorithmic Approach on Sheffer Stroke L-algebras <b>Necla KIRCALI GÜRSOY</b>
13.30-13.45	Information security as an important factor in the use of digital technologies <b>Sevda BADALOVA</b>	Decision-Making Approach with Bipolar Fuzzy Soft Graphs <b>Yıldray ÇELİK</b>
13.45-14.00	Mathematical model of crack formation and growth in composite material during single-axis tension <b>Nurlan GURBANOV</b>	On the Diophantine Equations Involving Integer Sequences <b>Abdullah ÇAĞMAN</b>
14.00-14.40	<b>HALL 1 Keynote Speaker: Prof. Dr. Maria Alessandra RAGUSA (Chair: Prof. Dr. Ahmet Ocak AKDEMİR)</b> Sharp regularity theorems for minimizers	
14.40-14.50	<b>BREAK</b>	
14.50-15.30	<b>HALL 1 Keynote Speaker: Prof. Dr. Vasile BERINDE (Chair: Assoc. Prof. Dr. Mustafa GÜRBÜZ)</b> The Convex Combination: a Powerful Tool in the Construction of Convergent Fixed Point Iterative Algorithms	
15.30-15.45	Fixed Point result on complete metric space with respect to w-distance <b>Abdelkader BELHENNICHE</b>	Some results on conformal quasi-hemi-slant Riemannian maps <b>Şener YANAN</b>
15.45-16.00	Jensen–Mercer and Related Inequalities On Fractal Sets <b>Saba YOUSEF</b>	Smarandache Ruled Surfaces According to Bishop Frame in E3 <b>Davut CANLI</b>
16.00-16.15	Hermite–Hadamard–Mercer and Related Inequalities on Fractal Sets <b>Saba YOUSEF</b>	Eigenvalue Estimates over Compact Spacelike Spin Hypersurfaces of Lorentzian Manifolds <b>Serhan EKER</b>
16.15-16.30	Refinements of Jensen's inequality for Jackson Nörlund Integrals <b>Ammara NOSHEEN</b>	Some Estimates on the Spin Manifolds by Using $\beta$ -twist Dirac operator <b>Serhan EKER</b>
16.30-16.45	The Unified Method for The Nonlinear Partial Differential Equations <b>Md. Nur ALAM</b>	An examination on to find 5th order Bezier curve in E <sup>3</sup> <b>Şeyda KILIÇOĞLU</b>
16.45-17.00	Existence Results for Fractional Differential Equations with Generalized Boundary Conditions <b>Imran TALIB</b>	On the parabola as a quadratic Bezier curve in E <sup>2</sup> <b>Şeyda KILIÇOĞLU</b>

## SECOND DAY 23 October 2021

23.10.2021 SATURDAY		HALL 1		HALL 2
09.00-09.15	Chair: Ahmet Cakir AKDEMİR	Evolving evolutooids and pedaloids of curves from viewpoints of envelope and singularity theory in Minkowski Plane  <b>Yanlin LI</b>	Chair: Abdussamet ÇALIŞKAN	On Soliton Surface Associated with Betchow-Da Rios Equation in Minkowski Space  <b>Melek ERDOĞDU</b>
09.15-09.30		Existence and Uniqueness of The Weak Solution for Keller-Segel Model Coupled With The Heat Equation  <b>Ali SÜMANI</b>		A Note On Beams and Inextensible Flows in Trans-Sasakian Manifolds  <b>Azime ÇETİNKAYA</b>
09.30-09.45		Weaker conditions for Steffensen's inequality and its generalizations in quantum calculus settings  <b>Ksenija Smoljak KALAMIR</b>		On Kähler structures of Taub-NUT and Kerr spaces  <b>Özgür KELEKÇİ</b>
09.45-10.00		Fixed point theorems in b-metric spaces with applications  <b>Monica BOTA</b>		On Optimal Control of the Initial Velocity of an Euler-Bernoulli Beam System  <b>Arif ENGİN</b>
10.00-10.15	Chair: Gülhan AYAR	Nearly Kenmotsu manifolds endowed with a semi-symmetric metric connection  <b>Mustafa YILDIRIM</b>	Chair: Alper EKİNCİ	Numerical Solutions of 1D and 2D Sinh-Gordon Equation via Linear Barycentric Collocation Method  <b>Ömer ORUÇ</b>
10.15-10.30		Flat Translation Surfaces with Respect to Semi-Symmetric Connections in $E^{n,3}$ and $E_{-1}^{n,3}$  <b>Mustafa ALTIN</b>		On the Floquet Solutions of the Second Order Linear Differential Equation with Almost Periodic Coefficients  <b>Egref ORUCOV</b>
10.30-10.45		Concircular Curvature Tensor of Nearly Cosymplectic Manifolds with Generalized Tanaka-Webster Connection  <b>Çağatay MADAN</b>		Oscillation Criterion for Differential Equations with Several Delays  <b>Nurten KILIÇ</b>
10.45-11.00		H-curvature tensors in Kähler Manifolds  <b>İnan ÜNAL</b>		Automation of the Information-Measurement Process and Improving the Accuracy of Measurements  <b>Almaz MEHDİYEVA</b>
11.00-11.15	BREAK			
11.20-12.00	<b>HALL 1 Keynote Speaker: Prof. Dr. Ferhan M. ATICI (CHAIR: Prof. Dr. Erhan SET)</b> Fractional h-Discrete Calculus and Its Applications in Medical Sciences			
13.00-13.40	<b>HALL 1 Keynote Speaker: Prof. Dr. Thabet ABDELJAWAD (CHAIR: Assoc. Prof. Dr. Mustafa Ali DOKUYUCU)</b> Some Recent Developments on Discrete Fractional Calculus			
14.00-14.15	Chair: Mustafa GÜRBÜZ	The influence of c-subnormality of subgroups on the structure of finite groups  <b>Jehad AL JARADEN</b>	Chair: Şeyda KILIÇOĞLU	On Slant Lightlike Submersions  <b>Ramazan SARI</b>
14.15-14.30		Finite Domination Type for Monoids  <b>Anjeza KRAKULLI</b>		The Quaternionic Darboux Ruled Surface in terms of Bishop Frame  <b>Abdussamet ÇALIŞKAN</b>
14.30-14.45		Elastoplastic Complication for Perforated Plate in Transverse Shear  <b>Rustam MAMMADOV</b>		Asymptotical Deferred Invariant Statistical Equivalence of Order $\alpha$ for Sequences of Sets  <b>Esra GÜLLE</b>
14.45-15.00		Differential game for the Pontryagin's example with Life-line  <b>Ulmasjon SOYIBBOEV</b>		The Solution of Linear Volterra Integral Equation of The First Kind Aboodh Transform  <b>Özgür KOTAN</b>
15.00-15.15	COFFEE BREAK			
15.15-15.30	Chair: Alper EKİNCİ	On the Weighted Generalized q-Hermite-Hadamard inequalities  <b>Necmettin ALP</b>	Chair: Abdullah ÇAĞMAN	The Representation and Finite Sums of the Padovan-p Jacobsthal Numbers  <b>Özgür ERDAĞ</b>
15.30-15.45		Integral Inequalities for differentiable s-convex functions in the second sense via Atangana-Baleanu Integral Operators  <b>Merve AVCI-ARDIÇ</b>		Factorization of a Class of Multilinear Maps through Convolution Product  <b>Ezgi ERDOĞAN</b>
15.45-16.00		Parameter Dependent Refinements of Hölder and Minkowski's Inequalities  <b>Khuram Ali KHAN</b>		Laplace Type Integral Transforms for Solving Generalized Katugampola Fractional Kinetic Equations Involving Certain Class of Functions  <b>Durmuş ALBAYRAK</b>
16.00-16.15		On Important Fundamental Integral Inequalities For Convex Functions  <b>Mehmet Zeki SARIKAYA</b>		Numerical performances through artificial neural networks for solving the vector-borne disease with lifelong immunity  <b>Ayşe Nur AKKILIÇ</b>

## THIRD DAY 24 October 2021

24.10.2021 SUNDAY		HALL 1		HALL 2
09.00-09.15	Chair: Ahmet Ocak AKDEMİR	Mathematical Modeling of the Width of Grooves Created with Laser Beam on Dual-Phase Steel Surface <b>Timur CANEL</b>	Chair: Erhan SET	Invariant and Lacunary Invariant Statistical Convergence of Order for Double Set Sequences <b>Erdiç DÜNDAR</b>
09.15-09.30		Generalized Semiderivations on Prime Rings <b>Evrım GÜVEN</b>		On Some Asymptotical Deferred Equivalence Types of alpha Order for Sequences of Sets <b>Esra GÜLLE</b>
09.30-09.45		Solution of Higher Order Quasi-Linear Parabolic Equation Subject to Periodic Boundary Conditions Using Fourier Method <b>İrem BAĞLAN</b>		On Rough I-Convergence and Rough I-Cauchy Sequence in 2-Normed Spaces <b>Mukaddes ARSLAN</b>
09.45-10.00		New Hadamard type integral inequalities via Caputo-Fabrizio Fractional integral operators <b>Ahmet Ocak AKDEMİR</b>		On Some Properties of Invariant Statistical Convergence in Fuzzy Normed Spaces <b>Şeyma YALVAÇ</b>
10.00-10.15	BREAK			
10.15-10.55	<b>HALL 1 Keynote Speaker: Prof. Dr. Luca GRILLI (CHAIR: Assist. Prof. Dr. Süleyman ŞENYURT)</b> Machine-Deep Learning and Finance: a review of recent results			
11.00-11.15	Chair: Erdiç DÜNDAR	Instruction of Mathematics in Higher Education in the Covid-19 Pandemic <b>Mehmet Alper ARDIÇ</b>	Chair: Muhammad Adil KHAN	Extensions of Discrete Majorization Type Inequalities for Convex Functions Defined on rectangles <b>Hidayat ULLAH</b>
11.15-11.30		Fuzzy Parameterized Intuitionistic Fuzzy Soft Topological Spaces <b>Adem YOLCU</b>		Generalization of Jensen-Mercer Inequality and Hermite-Hadamard Inequality via Majorization <b>Shah FAISAL</b>
11.30-11.45		The Expansion Formula for a class of Dirac Operators with a Spectral Parameter in Boundary Condition <b>Aynur ÇÖL</b>		A Numerical Investigation of the Eigenvalues of a Class of Non-self-adjoint Random Matrices <b>Hasen Mekki ÖZTÜRK</b>
11.45-12.00		The exExpansion Formula for a Class of Dirac Operators with Discontinuous co-efficient and Spectral Parameter in Boundary Condition <b>Aynur ÇÖL</b>		On the initial value problem for the nonlinear fractional Rayleigh-Stokes equation <b>Nguyen Anh TUAN</b>
12.00-12.15	Chair: Süleyman ŞENYURT	Late-order asymptotics of ordinary differential equations <b>Fatih SAY</b>	Chair: Erdal ÜNLÜYOL	New integral inequalities of Hadamard type via Katugampola Fractional operator for m-convex functions <b>Merve ÇAKALOĞLU</b>
12.15-12.30		Application of resurgence theory and its properties for large-N <b>Fatih SAY</b>		Some new results for different kinds of convex functions via Caputo-Fabrizio Fractional integrals <b>Sinan ASLAN</b>
12.30-12.45		Curves of Constant Breadth with B-Darboux Frame in Euclidean 3-Space <b>Muradiye ÇİMDİKER ASLAN</b>		A Study on the Applications of the Generalized Exponential Rational Function Method <b>Birgül BİNZET</b>
12.45-13.00		The Differential Examination with Blaschke Approach Between The Spacelike Curves and The Spacelike Ruled Surfaces <b>Muradiye ÇİMDİKER ASLAN</b>		On the Solution of Knapsack Problem with Artificial Neural Networks <b>Tugay İLHAN</b>
13:00-13:15		Fekete-Szegő Problem Functional Problems For Some Subclasses of Bi-Univalent Functions Defined By Deniz-Özkan Differential Operator <b>Erhan DENİZ</b>		Hermite-Hadamard-Fejer Inequality and Related Inequalities via Alpha and Beta generators <b>Erdal ÜNLÜYOL</b>
13:15-13:30		Coefficient Estimates For A Certain Subclass of Bi-Univalent Functions Defined By using Deniz-Özkan Differential Operator <b>Sercan KAZIMOĞLU</b>		Emergence and Annihilation of Persistent Activity States in Two-Population Neural Field Model for Under Influence Gaussian External Input <b>Muhammad Yousef BHATTI</b>
13:30-13:45		Picewise Derivatives Versus Short Memory Concept: Analysis and Application <b>Seda İĞRET ARAZ</b>		
14:00-14:30	HALL 1 CLOSING CEREMONY			

The conference will be held via ZOOM platform. Please use the following connection links:

First Day-HALL 1-22.10.2021: <https://us02web.zoom.us/j/9888538161?pwd=TVROTtSeEJFUWNPZU51Z0JBeG5FQT09>

Meeting ID: 988 853 8161 Passcode: icmrs

First Day-HALL 2-22.10.2021: <https://us02web.zoom.us/j/8670243776?pwd=N3V1WmJYZnh4NDNTVHV1cGV5T1pGZz09>

Meeting ID: 867 024 3776 Passcode: icmrs

Second Day-HALL 1-23.10.2021: <https://us02web.zoom.us/j/9888538161?pwd=TVROTtSeEJFUWNPZU51Z0JBeG5FQT09>

Meeting ID: 988 853 8161 Passcode: icmrs

Second Day-HALL 2-23.10.2021: <https://us02web.zoom.us/j/8670243776?pwd=N3V1WmJYZnh4NDNTVHV1cGV5T1pGZz09>

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Meeting ID: 867 024 3776 Passcode: icmrs

TEST MEETING-21.10.2021-15:00: <https://us02web.zoom.us/j/9888538161?pwd=TVROTtSeEJFUWNPZU51Z0JBeG5FQT09>

Meeting ID: 988 853 8161 Passcode: icmrs