

ISCDFAMS 2024 SYMPOSIUM PROGRAMME

FIRST DAY 2 September, 2024

2.09.2024 Monday	Hall 1	Hall 2	Hall 3
Türkiye Istanbul Time	OPENING CEREMONY (T BLOCK TURQUOISE SALOON) Chair: Ayşenur Uçar Hybrid (Face to Face and Online) ZOOM MEETING ID: 922 5590 6249		
08:45-08:50	National Anthem and Respectful Silence		
08:50-09:00	Prof. Dr. Engin ÖZKAN, Marmara University - Speaker on behalf of the organizing committee (Türkiye Istanbul Time-Zoom) Hybrid (Face to Face and Online)		
Türkiye Istanbul Time	(09:00-09:10) Prof. Dr. Hasan TÜRKEZ - Atatürk University - Vice Rector (09:10-09:20) Prof. Dr. İbrahim Hakkı AYDIN - İstanbul Aydın University - Rector (09:20-09:25) Prof. Dr. Şakir TAŞDEMİR, Sinop University - Rector (09:25-09:30) Prof. Dr. Abdulhalik KARABULUT, Ağrı İbrahim Çeçen University - Rector		
09:00-10:30	(09:30-09:35) Prof. Dr. Ali Cengiz KÖSEOĞLU, Ankara Yıldırım Beyazıt University - Rector (09:35-09:40) Prof. Dr. Adnan YÜKSEL, Biruni University - Rector (09:40-09:45) Prof. Dr. Akın LEVENT, Erzincan Binali Yıldırım University - Rector (09:45-09:50) Prof. Dr. Bülent ÇAKMAK, Erzurum Technical University - Rector (09:50-09:55) Prof. Dr. Uğur ÜNAL, Gazi University - Rector (09:55-10:00) Prof. Dr. Halil İbrahim ZEYBEK, Gümüşhane University - Rector (10:00-10:05) Prof. Dr. Mustafa KURT, Marmara University - Rector (10:05-10:10) Prof. Dr. Elçin BABAYEV, Bakü State University - Rector		

10:10-11:00	COCKTAIL		
11:00-11:30	Keynote Speech: Prof. Dr. Bülent ÜNAL (Bilkent University – Türkiye) (T BLOCK TURQUOISE SALOON) Chair: Ayşenur Uçar <i>Current perspectives on Ricci flows (Türkiye Istanbul Time-Zoom) Hybrid (Face to Face and Online) ZOOM MEETING ID: 922 5590 6249</i>		
11:30-12:00	Invited Speakers: Prof. Dr. Arif SALİMOV (Baku State University – Azerbaijan) (T BLOCK TURQUOISE SALOON) Chair: Ayşenur Uçar <i>Tensor Derivations and Problem of Lifts (Türkiye Istanbul Time-Zoom) Hybrid (Face to Face and Online) ZOOM MEETING ID: 922 5590 6249</i>		
12:00-13:00	LUNCH (Self Provided)		
13:00-13:30	Invited Speakers: Prof. Dr. Tofiq Allahviranloo (Istinye University – Turkey) (T BLOCK TURQUOISE SALOON) Chair: Ayşenur Uçar <i>Z-Numbers (Türkiye Istanbul Time-Zoom) (Online) ZOOM MEETING ID: 922 5590 6249</i>		
13:30-13:45	COFFEE BREAK		

2.09.2024 Monday	Hall 1	Hall 2	Hall 3
13:45-14:00	Applications of Diagonal Lift in Semi-tangent Bundles Furkan Yıldırım (Face to face)	Fine spectrum of a class of generalized difference operator-matrices Ali Akhmedov (Face to face)	Some Notes on The Semi-Tangent Bundle Lorentzian Almost R-Paracontact Structures Kursat Akbulut (Face to face)
14:00-14:15	Convergence Results of Exponential Sampling Series in Logarithmic Weighted Spaces Özlem Acar (Face to face)	Returned Sequences with applications Suleyman Baghirov (Face to face)	Investigation of the nonlinear Schrödinger type equations Akbota Myrzakul (Face to face)
14:15-14:30	On Gaussian Fibonacci And Gaussian Lucas Hybrid Numbers Mine Uysal (Face to face)	Saturation Order of Exponential Sampling Series Tuncer Acar (Face to face)	Stability and Flip Bifurcation Analysis of A Fractional-Order Predator–Prey Model Kübra Değerli (Face to face)
14:30-14:45	On the Solution Method of the Linearized Equations of Elastodynamics under Inhomogeneous Initial Stresses Emin Bağirov (Face to face)	A Generalized Approach to Nonlinear Partial Differential Equations Ömer Ünsal (Face to face)	Modular Convergence of New type of Sampling Kantorovich Series Metin Turgay (Face to face)
14:45-15:00	COFFEE BREAK		
15:00-15:15	Lie Derivatives of Tensor Structures in Semi-Tangent Bundle Mustafa Kır (Online)	A Numerical Approach to the Singularly Perturbed Periodic Problem Erkan Cimen (Online)	Some Notes on a Golden Deformation of Paracontact Structures Esen Kemer Kansu (Online)
15:15-15:30	Cheeger-Gromoll metric on the coframe bundle of Riemannian manifold Habil Fattayev (Online)	A Study on Invertible Čech Closure Spaces Naheeda Farhath (Online)	A Simple Proof Of One Theorem Of Planimetry Samed Aliyev (Online)
15:30-15:45	On Total-4-Uniform Graphs Selim Bahadır (Online)	Neutrosophic Soft Lie Algebras Sadi Bayramov (Online)	Integrating TOPSIS Method with Topology in Decision-Making: Exploring Alternative Metrics Nuray Gül (Online)
15:45-16:00	Development of the variational principle for creep problems Yusif Sevdimaliyev (Online)	K-Means Clustering of Teucrium (Lamiaceae) species based on Principal Component Analysis Mehmet Cevri (Online)	Some Inequalities on a Subclass of Spirallike Functions Involving the Barnes-Mittag-Leffler Function Şahsene Altınkaya (Online)

16:00-16:15	COFFEE BREAK		
16:15-16:30	Symplectic embeddings into cylinders for certain symplectic manifolds Nil İpek Şirikçi (Online)	A Study on Generalized Screen Generic Lightlike Submanifolds of indefinite Kaehler manifolds Nergiz Önen Poyraz (Online)	Dirac Equation and Hyperbolic Spinors Emrah Yıldırım (Online)
16:30-16:45		On Operator Estimates on Salah BenMahmoud (Online)	A New Approach to Dickson k-Lucas Polynomials Hakan Akkuş (Online)
16:45-17:00	Chaotic dynamics of a discrete predator-prey model with predator harvesting Cahit Köme (Online)	First-Order Non-Instantaneous Impulsive Integro-Differential Equations with Infinite Delay: Existence and Approximate Controllability Abdelhamid Bensalem (Online)	Variational Analysis for Thermo-Electro-Elastic-Viscoplastic Contact Problem with Damage Ahmed Hamidat (Online)
17:00-17:15	A Note on Hopf's Conjecture Sergey Stepanov (Online)	The Local Existence of Solution to Caputo-Katugampola Fractional Integro-differential Equation Brahim Benaissi (Online)	Examination of Fermatean fuzzy sets and their applications İbrahim Şanlıbaba (Online)
18:00-20:00			

SECOND DAY 3 September, 2024						
09:00-09:30	<p>Invited Speakers: Prof. Dr. Farit Gabidinovich Avkhadiev (Kazan Federal University-Russia)</p> <p><i>Selected results and open problems on Hardy-Rellich type inequalities (Türkiye Istanbul Time-Zoom)-(Chair: Necati Can Açıkgöz) Hybrid (Face to Face and Online) ZOOM MEETING ID: 922 5590 6249</i></p>					
09:30-09:45	COFFEE BREAK					
3.09.2024 Tuesday		Hall 1		Hall 2		Hall 3
09:45-10:00	Chair: Tuğçe Kunduracı (Co-chair: Melike Aydın)		Chair: Çağrı Karaman (Co-chair: Fidan Sarmasli)		Chair: İsa Yıldırım (Co-chair: Tahir Ceylan)	
10:00-10:15		Neighborhood and Directional Neighborhood Matrices of (2,n) Torus Knot Melike Aydın (Online)		Enhancing Secondary School Geometry Education Through ICT Integration Fidan Sarmasli (Online)		On Toeplitz-Hessenberg Determinants with Higher Order Jacobsthal Number Entries Taras Goy (Online)
10:15-10:30		Inverse Boundary Value Problem for the Linearized Equation of Motion of a Homogeneous Beam Elvin Azizbayov (Online)		The Existence of Solutions for a Hybrid Discrete Fractional Problem with Caputo-Like Formulation Alii Fayçal (Online)		
10:30-10:45		Some Lifts Problems of Lorentzian Almost r-Paracontact Structure On The Semi-Tangent Bundle Gülnur ÇAĞLAR (Online)		Computing Modified First Fuzzy Zagreb Index of Fuzzy Zero-Divisor Graphs Elif Eryaşar (Online)		Investigation of the Fuzzy Eigenvalue Problem with an Arbitrary Eigenvalue Parameter Tahir Ceylan (Online)
10:45-11:00	COFFEE BREAK					
11:00-11:15	Chair: Mesut Karabacak (Co-Chair: Necati Can Açıkgöz)		Chair: Nazlı Karaca (co-chair: Gökhan Mumcu)		Chair: Kürşat Akbulut (Co-Chair: Seher Aslançı) Face to Face	
11:15-11:30		Nonlinear Klein Gordon Equation on a Network Naima Mehenaoui (Online)		Multiple Solutions for a Fractional Problem with a Critical Exponent Asma Senhadji (Online)		The asymptotic behavior of Lord-Shulman system with microtemperature effects with non-positive definite energy Kilani Brahim
11:30-11:45		Existence of fixed points for classes of operators via the fixed point index on cones of Banach spaces Amirouche Mouhous (Online)		Apollonius Problem and Caustics of a One-Sheeted Hyperboloid Elkhan Kachabekov (Online)		On harmonicity of generalized magnetic curves Murat Altunbaş (Face to face)
11:45-12:00		An investigation for productivity of nearly Lindelöf spaces and some covering properties Necati Can Açıkgöz (Online)		Some Characterizations of Quaternionic Normal-Direction Curves in E3 Gökhan Mumcu (Online)		On deformed lifts of 1-forms in the 2-jet bundle Seher Aslançı (Face to face)
12:00-13:00	LUNCH (Self Provided)					
13:00-13:30	<p>Invited Spiker : Prof. Dr. Hemangi Madhusudan Shah (Indian Institute of Technology – India)</p> <p><i>Some Characteristics of Almost Omega Bach Solitons (Türkiye Istanbul Time-Zoom)-(Chair: Necati Can Açıkgöz) (Online) ZOOM MEETING ID: 922 5590 6249</i></p>					
14:00-14:40	COFFEE BREAK					
15:00-15:15	Chair: Orhan Amirov (co-chair: Meddahi Meryem)		Chair: Kürşat Akbulut (co-chair: Döndü Öz)		Chair: Sezai Kızıltuğ (co-chair: Deniz Öztürk)	
15:15-15:30		Nonparametric estimation of spectral density functions of sample covariance matrices with correlated entries Zahira Khettab (Online)		On Infinitesimal Automorphisms With Respect to Some Polynomial Structures in the Semi Tangent Bundle İmran Güneş (Online)		A novel segmentation approach for noisy MRI brain images Chaimae Ouchicha (Online)
15:30-15:45		Representation of unlimited Gaussian integers: Gaussian Pell and Pell-Lucas numbers Zahra Amroune (Online)		Some Sufficient Conditions on Multiple Nonnegative Solutions for Iterative System of Third-Order Impulsive Boundary Value Problem with p-Laplacian Operator Döndü Öz (Online)		Understanding glucose homeostasis through mathematical analysis Deniz Öztürk (Online)
15:45-16:00		Some Applications of Metric Regularity of Composed Multimaps Result Meddahi Meryem (Online)				Variational Analysis for Thermo-Electro-Elastic-Viscoplastic Contact Problem with Damage Ahmed Hamidat (Online)
16:00-16:15						
16:15-16:30	Chair: Seher Aslançı (co-chair: Nesrine Karaterki)	Functional autoregressive process and tests Nesrine Karaterki (Online)	Chair: Murat Çağlar (co-chair: Bayram Şen)	Catalan Transform of the K-Involution and k-Morgan-Lucas Sequences Bayram Şen (Online)	Chair: Fatma Sağsöz (co-chair: Natalia Dzhaluk)	Sylvester-type Matrix Polynomial Equations and Solutions of a Prescribed Degree Nataliia Dzhaluk (Online)
16:30-16:45		Tensor Product Technique and Atomic Solution for Certain Conformable Fractional Partial Differential Equations Ilhem Kadri (Online)		The Controllability Tree for regional controllability of Non-linear Cellular Automata Sara Dridi (Online)		An ab initio study of novel full Heusler alloys for spin polarized and waste heat recycling systems Saadiya Benatmane (Online)
16:45-17:00				Curves at a Constant Distance from the Edge of Regression on Some Special Curves in G_3 Ali Çakmak (Online)		On covariant derivatives of some structures with respect to lifts on semi-tangent bundle t(M) Kübra Atasever (Online)
17:00-17:15						
18:00-20:00	GALA DINNER					

THIRD DAY 4 September, 2024

09:00-09:30	Invited Speakers: Prof. Dr. Ljubisa KOCINAC (University of Nis– Serbia) (T BLOCK TURQUOISE SALOON) <i>Some Trends in Karamata Theory (Türkiye Istanbul Time-Zoom)-(Chair: Ayşenur Uçar) Hybrid (Face to Face and Online) ZOOM MEETING ID: 922 5590 6249</i>					
4.09.2024		Hall 1		Hall 2		Hall 3
Wednesday						
10.00-10.15	Chair: Fatma Sağsöz (co-chair: Sedaghat Shahmorad)		Chair: Orhan Amirov (co-chair: Smina Djennadi)		Chair: Nazlı Karaca (co-chair: Aleksandr Ivanov)	
10.15-10.30		Tau collocation method for Volterra integral equations with application to fractional differential equations Sedaghat Shahmorad (Online)		A New contributions on Controllability for Linear Descriptor Systems Abed Makreloufi (Online)		Examples of divergences and a cutoff regularization Aleksandr Ivanov (Online)
10.30-10.45		Mathematical modeling of stochastic oscillations of a viscoelastic rope with a moving boundary Vladislav Litvinov (Online)		Mathematical Analysis of an Inverse Problem for the Time Fractional Heat Equation Smina Djennadi (Online)		The Structure of the Greatest Common Divisor of Matrices Over Elementary Divisor Domains Andrii Romaniv
10.45-11.00		Radian Problems For Starlike And Convex Functions Associated With Sine And Cosine Functions For Some Basic Arithmetic Operations Manivannan Mathi (Online)		Studying the Magnetic, Optical, and Thermoelectric Properties of EuGaN using Density Functional Theory Abdelkader Nouri (Online)		On Holomorphically Projective Mappings of Special Kählerian Spaces Lenka Vítková (Online)
11.00-11.15	COFFEE BREAK					
11.15-11.30	Chair: Süheyla Elmas (co-chair: Ebru Aydoğdu)		Chair: Çağrı Karaman (Co-chair: Ahmed El Idrissi)		Chair: Tuğçe Kunduracı (Co-chair: Meriem Tiachachat)	
11.30-11.45		Convergence of a Weighted Barrier Algorithm for Stochastic Convex Quadratic Semidefinite Optimization Asma Gafour (Online)		On General Solution of Fundamental Equations on Conformal Fedosovov Spaces Chakibek Almazbekov (Online)		A new classe of partial Bell polynomials Meriem Tiachachat (Online)
11.45-12.00		Numerical Solution of Lane-Emden Equation Using the SHAM Mouaad Bouakkaz (Online)		Global Well-Posedness for a Nonlinear Diffusion Model with Fractional Laplacian Operators in Critical Besov-Morrey Spaces Ahmed El Idrissi (Online)		Kernel Principal Component Analysis for Nonlinear Schrodinger Equation Yusuf Çakır (Online)
12.00-12.15		Smilarity Measures on Spherical fuzzy sets Ebru Aydoğdu (Online)		Fractional proportional Fourier transform and some of its applications Rabaa Aouafı (Online)		Numerical modeling and mechanical characterization of a composite sleeve Sid Ahmed Benmansour (Online)
12.00-12.15	COFFEE BREAK					
12.20-13.00	LUNCH (Self Provided)					
13:00-13:30	Invited Speakers: Prof. Dr. Sedaghat SHAHMORAD (University of Tabriz- Iran) (T BLOCK TURQUOISE SALOON) <i>Tau collocation method for Volterra integral equations and fractional differential equations (Türkiye Istanbul Time-Zoom) (Chair: Necati Can Açıkğöz) (Online) ZOOM MEETING ID: 922 5590 6249</i>					
13.30-15.00	COFFEE BREAK					

FOURTH DAY 5 September, 2024 (ONLINE)-Türkiye Istanbul Time-Zoom

09:00-09:30	Invited Speakers: Prof. Dr. Josef MIKESH (Palacky University– Czech Republic) (T BLOCK TURQUOISE SALOON) <i>On Global Geodesic Mappings of Special Spaces-Türkiye Istanbul Time-Zoom-(Chair: Necati Can Açıkğöz) (Online) ZOOM MEETING ID: 922 5590 6249</i>					
5.09.2024		Hall 1		Hall 2		Hall 3
Thursday						
09.30-09.45	Chair: Harun Selvitopi (co-chair: Nuray Gül)	Sieves estimator of functional autoregressive process Asma Boukhalfa (Online)	Chair: Çetin Yıldız (Co-chair: Rena Sadikhzada)	On Intuitionistic Fuzzy b-Metric-Like Spaces Nizamettin Ufuk Bostan (Online)	Chair: Nazlı Karaca (Co-chair: Cihan Unal)	
09.45-10.00		An Examination on the Bezier surfaces of order $n \times m$ in E^3 Şeyda Kılıçoğlu (Online)		Intrusion Detection Systems for VANETs Using Artificial Intelligence Khadija Moutassim (Online)		A Modified FBS Algorithm for Regression and Classification Problems İrfan IŞIK (Online)
10.00-10.15		Using forward-backward SDEs and neural networks for a numerical algorithm to solve fully nonlinear parabolic PDEs Andrey Chubatov (Online)		Inverse problem of determining the right-hand side in a third-order pseudo-hyperbolic equation with non-classical boundary conditions Rena Sadikhzada (Online)		Grassmann-like manifold of centered planes when the centre circumscribes a surface Olga Belova (Online)
10.15-10.30		Some optimal lower bound estimates on the spin-submanifolds Serhan Eker (Online)		Elliptic cooperative system and parabolic non cooperative system with Hardy potential Fatima Z. Bengrine (Online)		A new approach for a biharmonic equation with weighted Laplacian Cihan Unal (Online)
10.30-10.45						
10.45-11.00						
11.00-11.15						
11.15-11.30						
11.30-13.30	LUNCH (Self Provided)					
13.30-14.00	Invited Speakers: Assoc. Prof. Dr. Mehmet Akif Akyol (Bingol University – Turkey) (T BLOCK TURQUOISE SALOON) Chair: Ayşenur Uçar <i>On Pointwise Riemannian Maps in Complex Geometry (Türkiye Istanbul Time-Zoom-Hybrid (Face to Face and Online) ZOOM MEETING ID: 922 5590 6249</i>					

3rd INTERNATIONAL

SYMPOSIUM ON CURRENT
DEVELOPMENTS IN FUNDAMENTAL AND
APPLIED MATHEMATICS SCIENCES



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SYMPOSIUM DATE
(Face-to-face)

02-03-04-05 Sep. 2024

SYMPOSIUM DATE
(Online-Zoom)

02-03-04-05 Sep. 2024
Zoom Meeting ID: 922 5590 6249



Important Note 1: Keynote speeches, invited talks and online paper presentations will be made through the Zoom programme (Zoom Meeting Id: 92255906249). Online presentations are not timed according to the time in your country. Presentations should be timed according to Turkey-Istanbul time. Turkey-Istanbul Time is located at the top left corner of the symposium web page (<https://iscdfams.com/>). The same (Zoom Meeting Id: 92255906249) is used for Hall 1, Hall 2, Hall 3 and TURQUOISE SALOON. After logging in to the Zoom programme (Id: 92255906249), you can log in to Hall 1, Hall 2, Hall 3 and TURQUOISE SALOON.

Zoom: <https://zoom.us/j/92255906249#success>

Important Note 2: Notice for those who will attend our symposium face to face: TURQUOISE SALOON is located in Block T. HALL 1, HALL 2, HALL 3 are located in T Block and T 106, T 107, T 108 classrooms respectively.