| Time (GMT +03:00) | | FIRST DAY \| JULY 1, 2026 | | |
|---|---|---|---|---|
| 09:45-10:00 | | OPENING TALKS (Room 1) | | |
| | | Room 1 | | Room 2 |
| 10:00 - 10:15 | CHAIR: TUNCER ACAR | **Michele Campiti**<br>Approximation Processes on Minimal Surfaces | CHAIR: GÜLSÜM ULUSOY ADA | **Jehad Alzabut**<br>Almost Automorphic and Pseudo-Almost Automorphic Solutions: A Unified Theory with Applications to Classical and Fractional Evolution Systems |
| 10:15 - 10:30 | | **Clemente Ceserano**<br>From Operator Theory to Fractional Operators in the Framework of Orthogonal Polynomials | | **Sakthivel R**<br>Reliability Evaluation for the linear or Circular Consecutive k-out-of-n: G System Using Continuous Time Bayesian Network |
| 10:30 - 10:45 | | **Harun Karslı**<br>Convergence of Multidimensional Mellin type Singular Integral Operators with non-Isotropic Kernels | | **Poonam Rane**<br>Inequalities for Complex Polynomials |
| 10:45 - 11:00 | | **Margit Pap**<br>Hyperbolic Wavelets, Basis Problem | | **Anthony Ripa**<br>Sums as Sets |
| 11:00 - 11:15 | | **Timothy Myers**<br>A Constructive Definition of the Riemann Integral on a Separable Banach Space | | **Vishal Vignesh S**<br>Multi-state Performance analysis of Benes Network |
| 11:15 - 11:30 | | COFFEE BREAK | | |
| 11:30 - 11:45 | CHAIR: MICHELE CAMPITI | **Gülsüm Ulusoy Ada**<br>Approximation by Generalized Baskakov Operators Associated with Exponential Functions | CHAIR: H. ERHAN ALTIN | **Şule Sağlam**<br>Modeling Bounded Data for the Unit Transformed Inverse Weibull Distribution: Estimation and Application |
| 11:45 - 12:00 | | **Rabian Wangkeeree**<br>A New Gradient-Based Neurodynamic Network for Circular Cone Constrained Variational Inequality Problems | | **Isabel Cacao**<br>Appell-Vietoris Polynomials and Their Zeros |
| 12:00 - 12:15 | | **Vasiliy Prokhorov**<br>Rational Approximation and Meromorphic Continuation | | **Santosh Kumar Upadhyay**<br>Weinstein Pseudo-differential Operator on Torus |
| 12:15 - 12:30 | | **Murat Bodur**<br>Where/Why Do We Use the Bivariate/Multivariate Positive Linear/Nonlinear Operators? | | **Kasamsuk Ungchittrakool**<br>An Inertial Projection-Based Neurodynamic Approach for Image Restoration and Inpainting |
| 12:30 - 12:45 | | **Buse Yumruktay**<br>Characterization of Some Classes of Compact Operators on Cesàro Difference Series Spaces | | **Deepa Vijayasenan**<br>Convergence of the Generalized Picard-Mann Iteration for G-Monotone Non-expansive Mappings in Banach Spaces with a Graph |
| 12:45 - 13:00 | | **Dilek Erdoğan**<br>Convergence and Asymptotic Behavior of Mellin-Steklov Exponential Sampling Series in Logarithmically Weighted Spaces | | **Tenzile Erbayram**<br>XBilal Distribution: Properties, Parameter Estimation, and Applications |
| 13:00 - 13:30 | | LUNCH BREAK | | |
| 13:30 - 13:45 | CHAIR: MURAT BODUR | **Başak Zaman**<br>Modules with ss-Supplements in Their Cofinite Extensions | CHAIR: ROMAN DMYTRYSHYN | **Aleyna Çetinkaya**<br>A Study on Associated Curves and Their Curvature Relations |
| 13:45 - 14:00 | | **Anarkul Urdaletova**<br>The Difference of Squares Formula and Quadratic Equations | | **Mrinal Kanti Das**<br>Automatic Differentiation using Neural Networks and Their Comparison with Higher Order Spectral Differentiation |
| 14:00 - 14:15 | | **Muhammet İkbal Akgül**<br>OMNIAI: AI-Powered Chatbot-Based Appointment Management System | | **Arafa Dijhene**<br>Numerical Study on a Class of Higher-Order Singular Polytropic Equations |
| 14:15 - 14:30 | | **Bienvenu Ondami**<br>A Randomized Shifted Finite Volume Method to Break Resonance Locking in 1D Homogenization | | **Aybala Sevde Özkapu**<br>Fixed Point Theorems in Digital Metric Spaces and Applications in Fractal Image Compression |
| 14:30 - 14:45 | | **Gökhan Uçkan**<br>Risk-Aware Autonomous Decision Analysis under Cross-Domain Distribution Shift Using Uncertainty and Explanation Entropy | | **Erdem Cankut**<br>Inference for the Reliability and Mean Time to Failure of Protected Consecutive -out-of-:G Systems |
| 14:45 - 15:00 | | **Pakkapon Preechasilp**<br>A Smooth Lagrangian-Based Neural Network for Solving Semidefinite Programming | | **Şeyda İldan**<br>Structural Stability and Rational q-Deformations in Parikh q-Determinants |
| 15:00 - 15:15 | | **Niyazi Anıl Gezer**<br>Dominants and Their Properties in Lattice Scaled Spaces | | **AbdelAziz Maouche**<br>Pseudospectra in Banach Algebras and Banach Jordan Algebras |
| 15:15 - 15:30 | | COFFEE BREAK | | |
| 15:30 - 15:45 | CHAIR: MURAT BODUR | **Hayri Topal**<br>Dynamic aspects of Composition Operators on Weighted Holomorphic Function Spaces | CHAIR: ROMAN DMYTRYSHYN | **Esref Erdogan**<br>Fixed Point Results for Rational Type F-Contractions in Perturbed Metric Spaces |
| 15:45 - 16:00 | | **Filippo Morabito**<br>Convergence and Smoothness of the Mehler-Fock Transform and Application to Overdetermined Boundary Value Problems in H^n x R | | **Ahmed Bousmaha**<br>Existence of Solutions for a Fractional $p(x,\cdot)$-Laplacian Problem with Neumann Boundary Conditions on an Exterior Domain |
| 16:00 - 16:15 | | **Elena Burova**<br>Magic Squares: from Ancient Aesthetics to a New Recursive Construction Method | | **Ali Arpacıoğlu**<br>On Some Matrix Transformations of Sequences of Function |
| 16:15 - 16:30 | | **Ali Aral**<br>On a new modification of the Mellin-Gauss-Weierstrass Operators in the Weighted Mellin-Lebesgue Spaces | | **Rattanaporn Wangkeeree**<br>A Projection Recurrent Neural Network for Circular Cone Constrained Variational Inequalities |
| 16:30 - 16:45 | | **Berat Sert**<br>Modern Iterative Optimization with Monotone Operators and Nonexpansive Mappings | | **Fatih Evran**<br>An Affine ARX-Based Adaptive RST Framework for Disturbed Buck Converter Systems |
| 16:45 - 17:00 | | COFFEE BREAK | | |
| 17:00 - 17:30 | | CHAIR: TUNCER ACAR (Room 1) | | PLENARY SPEAKER: RAUL CURTO, CLASSES OF OPERATORS RELATED TO SUBNORMAL OPERATORS |

| Time (GMT +03:00) | SECOND DAY \| JULY 2, 2026 | | | |
|---|---|---|---|---|
| 10:00 - 10:30 | **CHAIR: TUNCER ACAR (Room 1)** | **PLENARY SPEAKER: FENG DAI, SAMPLING DISCRETIZATION OF INTEGRAL NORMS IN FINITE-DIMENSIONAL SPACES** | | |
| 10:30 - 10:45 | **COFFEE BREAK** | | | |
| | **Room 1** | | **Room 2** | |
| 10:45 - 11:00 | CHAIR: CLEMENTE CESERANO | **Oleksandr Chaban**<br>Stability to Perturbations of Modified S-fractions with Applications | CHAIR: FIRAT ÖZSARAÇ | **Zahra Moaed Abd Al-Majeed**<br>Bridging Extending and Supplemented Modules: Towards a Unified Framework in Module Theory |
| 11:00 - 11:15 | | **Juan Hernández**<br>Some Properties of Generalized Degenerate Tangent Polynomials and Their Associated Matrices | | **Zhanars Abdiramanov**<br>Investigation of Physics-Informed Neural Networks for Solving the Allen-Cahn Equation via SAV-Spectral Architecture |
| 11:15 - 11:30 | | **Rodrigo Ingelmo Vicente**<br>On the Zero Behavior of Degenerate Bernstein Basis Functions | | **Hüda Nur Akgül**<br>Geometric Analysis of Magnetic Trajectories of Charged Particles and Their Relations with Associated Curves |
| 11:30 - 11:45 | | **Hadil Khenissa**<br>Numerical Spectral Analysis of a Chafee--Infante type Equation on Unbounded Domains | | **Aziz Yazla**<br>Hyperbolic Pythagorean Hodograph Curves |
| 11:45 - 12:00 | | **Ilona-Anna Lutsiv**<br>Convergence Domains of Branched Continued Fraction Expansions of Ratio ${H_4(a,d+1;c,d;\mathbf{z})}/{H_4(a+1,d+1;c,d+1;\mathbf{z})}$ | | **Kubilay Yaşar**<br>A New Approach to Decision Making using Soft Covering Based Rough Sets by Concept of Soft Maximal Description |
| 12:00 - 12:15 | | **Ivan Nyzhnyk**<br>On the Representation of Lauricella-Saran Hypergeometric Functions $F_M$ and Their Ratios in Special Cases by Branched Continued Fractions | | **Artan Alidema**<br>Two Dimensional Fuzzy Differential Transform Method for Solving of Two Dimensional Nonlinear Fuzzy Volterra Integral Equations |
| 12:15 - 12:30 | | **Yamilet Quintana**<br>Degenerate Appell Sequences via Caputo-type Fractional Difference Operator | | **Hüseyin Erhan Altın**<br>On the Approximation of Borel Derivatives by Nonlinear Szàsz Mirakyan Durrmeyer Operators |
| 12:30 - 12:45 | | **Samra Sadiković Hajrić**<br>On the Oscillatory Behavior of Cesaro Means for Fourier-Jacobi Series | | **Tuğçe Delen**<br>Fixed-Point Iterations for Analyzing the Topology of Biological Networks |
| 12:45 - 13:00 | | **Roman Dmytryshyn**<br>On the Approximations of the Ratios of Double Hypergeometric Functions by Branched Continued Fractions | | **Yirga Abebe Belay**<br>Machine Learning: Neural Network Approach for Solving Support Vector Machines With Smoothing Functions |
| 13:00 - 13:30 | **LUNCH BREAK** | | | |
| 13:30-13:45 | CHAIR: FIRAT ÖZSARAÇ | **Dong Hyun Cho**<br>A Generalized Fourier-Feynman Transform over Paths in Abstract Wiener Space | CHAIR: SADETTİN KURŞUN | **Osman Alagöz**<br>Fixed Point Approximation Schemes for Wasserstein Gradient Flows in Generative Modeling |
| 13:45 - 14:00 | | **Mürüvvet Tuva Erbaş**<br>Solution Structure of Higher-Order Nonlinear Hadamard-Type Fractional $p$-Laplacian Problems on Finite Domains | | **Olgun Cabri**<br>Eigenvalue Expansions for a Conformable Sturm–Liouville Operator with Mixed Boundary Conditions |
| 14:00 - 14:15 | | **Francisco Javier Martinez Sanchez**<br>Korovkin and Voronovskaya Results for Positive Bivariate Operators under Generalized Convergence | | **Sümeyra Sert**<br>A New Nonparametric k-Sample Test Based on Interval Counts of Order Statistics |
| 14:15 - 14:30 | | **Reza Mokhtari**<br>A $\theta$-Scheme for Complex Nonlinear Klein-Gordon Equations in the Nonrelativistic Limit: Stability Analysis and Numerical Results | | **Erdem Cankut**<br>Statistical Inference of A New Four-Parameter Marshall Olkin Distribution: Comprehensive Simulation and Measurement Applications |
| 14:30 - 14:45 | | **Ayşegül Keten Çopur**<br>Mid \(p\)-Summable Sequences and Applications to Lipschitz Operators | | **Baili Chen**<br>A Chemotaxis-Navier-Stokes System with Dynamical Boundary Conditions |
| 14:45 - 15:00 | **COFFEE BREAK** | | | |
| 15:00 - 15:30 | **CHAIR: HARUN KARSLI (Room 1)** | **PLENARY SPEAKER: CARLO BARDARO, EXPONENTIAL SAMPLING THEORY: ERROR ESTIMATES VIA MELLIN DISTANCE** | | |
| 15:30 - 15:45 | CHAIR: FIRAT ÖZSARAÇ | **Vitaliy Goran**<br>Numerical Stability of Branched Continued Fraction Expansions of Lauricella-Saran Hypergeometric Functions $F_M$ and Their Ratios in Special Cases | CHAIR: SADETTİN KURŞUN | **Selen Akpınar**<br>On Integral Curves Generated by PAF in Euclidean 3-Space |
| 15:45 - 16:00 | | **Alper Erdem**<br>On a Statistical Versions of Certain Types of Alpha Convergence | | **Vipavee Damminsed**<br>A Neurodynamic Optimization Model for Smooth Pinball Loss Based Support Vector Machines |
| 16:00 - 16:15 | | **Vinaya Poyil Chittarickal**<br>Korovkin-type Approximation for Non-positive Operators | | **Coşkun Kuş**<br>A Mixture Model using Unit Type Lindley Distributions |
| 16:15 - 16:30 | | **Firat Ozsarac**<br>Approximation by a Novel Modification of a Mellin-type Kernel | | **Virath Singh**<br>Fixed Point Theorems for Nonlinear Contractive Mappings in Cone-Valued $\theta$-Type Multiplicative Metric Spaces |
| 16:30 - 16:45 | | **Şerife Nur Karaman**<br>Approximation Properties of Modified Neural Network Operators Activated by Sigmoidal Functions | | **Yunus Akdogan**<br>Modified Process Capability Index Under Unit-Gumbel Distribution: Comparative Analysis of Point Estimators |
| 16:45 - 17:00 | | **Gerald Wanjala**<br>The Numerical Range of the Generalized Inverse and Its Applications to Iterative Methods | | **Mohammed Reza Alei Jordahi**<br>Spherical Number Algebras (SNA): An Admissibility-First and Invariant-First Conceptual Architecture |
| 17:00 - 17:15 | | **Metin Turgay**<br>Simultaneous Approximation by Bivariate Kantorovich-Type Operators in Weighted Spaces | | **Sadettin Kurşun**<br>On Exponential-Type Sampling Series: Upper Bounds of Operator Differences |
| 17:15 - 17:30 | | **Tuğçe Delen**<br>New Results on Fixed Point Theory in Perturbed Metric Spaces with Directed Graphs | | **Eşref Erdoğan**<br>Fixed Point Theorems for $Z$-Contractions in Perturbed Metric Spaces |
| 17:30 - 17:45 | | **Dilek Erdoğan**<br>Approximation of Discontinuous Functions By Kantorovich Exponential Neural Network Operators | | |