

# 4 SEPTEMBER 2024

## REGISTRATION (Face to Face)

13:00-14:00

## OPENNING CEREMONY (Face to Face/Online)

14:00-14:45

### KEYNOTE SPEAKER

The Process of Predictions and Programming

**Prof. Dr. Kenan Peker** (Online)

**Chair:** Gökhan Çuvalcıoğlu

15:00-15:45

### COFFEE BREAK

15:45-16:00

	HALL-A (Online)-Mathematics		HALL-B (Online)-Mathematics
	Chair:		Chair:
16:00-16:15	A Computational Algorithm For Solutions Of System Of Fractional Order Differential Equations <b>Elçin Gökmen</b>	16:00-16:15	Limited Operators On Banach Lattices <b>Nefise Nur Begüm Kayacı, Ömer Gök</b>
16:15-16:30	Method Of The Exact Difference Schemes For The Integro-Differential Equations With Boundary Layers <b>Muhammet Enes Durmaz</b>	16:15-16:30	On The Extension Of Conformable Fractional Dynamic Dirac System <b>Yasin Ertuğrul, Hüseyin Tuna</b>
16:30-16:45	The Main Equation Of Inverse Scattering Problem Of Sturm-Liouville Operator Containing Spectral Parameter <b>Özge Akçay</b>	16:30-16:45	On The Reducibility Of Weighted Composition Operators Teube Cyrille Mbainissem, <b>Dethie Dione</b>
16:45-17:00	Solving Sturm-Liouville Problems Using Mathematica Software <b>Fikret Doğan Bakoğlu, Kh.R. Mamedov</b>	16:45-17:00	Similarity Metric And Its Relations Between Other Metrics Mehmet Solgun, Kemal Taşköprü, <b>Esra Güder</b>
17:00-17:15	Comprehensive Analysis Of Fuzzy C-Means Clustering And Its Variants: Time Complexities And Performance Review <b>Orkun Gürler, Efendi Nasibov</b>	17:00-17:15	On The Problem Of Computing Projectivities Between Rational Vector Fields <b>Uğur Gözütok</b>

## KEYNOTE SPEAKER

Optimization of Type-2 Fuzzy Systems and Future Trends for Theory and Applications

**Prof. Dr. Oscar Castillo** (Online)

**Chair:** Gökhan Çuvalcıoğlu

17:30-18:15

## 5 SEPTEMBER 2024

	HALL-A (Online)-Mathematics		HALL-B (Online)-Engineering
	Chair:		Chair:
09:00-09:15	Dynamics Properties Of A Discrete Time Model With Weak Allee Effect <b>Figen Kangalgil</b> , Seval Işık	09:00-09:15	Comparative Study Of Solar PV Storage For Utility Scales Applications Danladi Garba, <b>Collins N. Ineneji</b>
09:15-09:30	Another Example For $P$ -Ideals <b>Mustafa Gülfırat</b>	09:15-09:30	Design And Electromagnetic Analysis Of Magnetically Controlled Shunt Reactor <b>İres İskender</b> , Emir Yükselen
09:30-09:45	On Alternating Bicommutative Polynomials <b>Nazar Şahin Öğüşlü</b>	09:30-09:45	Modeling Neuron Growth Using Artificial Neural Networks <b>Brishna Khan</b>
09:45-10:00	Convergence Of Bieberbach Polynomials In Special Domains <b>Cem Koşar</b>	09:45-10:00	Evaluating The Effects Of Refrigerant Charge Levels On ASHP Operating Parameters <b>Kutbay Sezen</b>

## COFFEE BREAK

10:00-10:15

## INVITED SPEAKER

The Energy of a Graph Over Real Neutrosophic Fuzzy Weights

**Prof. Dr. Madhumangal Pal** (Online)

**Chair:** Gökhan Çuvalcıoğlu

10:15-11:00

## COFFEE BREAK

11:00-11:15

	HALL-A (Online)-Mathematics		HALL-B (Online)-Engineering
	Chair:		Chair:
11:15-11:30	On Some Algebraic Concepts Of Symbolic Plithogenic And Neutrosophic Rings <b>Hamiyet Merkepçi</b>	11:15-11:30	Multiple-Layer Microstrip Circular Patch Antenna Array As A Solution For Significant Improvement In Gain, Directivity, And Multiple Band Frequency Antenna Danladi Garba, <b>Collins N. Ineneji</b>
11:30-11:45	Korovkin Type Convergence Theorems And Their Applications <b>Cem Koşar</b> , Nida Palamut Koşar	11:30-11:45	Investigation Of Mechanical Properties Of Fly Ash-Based 3D-Printed Geopolymer Mortars <b>Maksut Seloğlu</b>
11:45-12:00	On Z4-Invariants Of Algebras Of Generic Objects <b>Nazar Şahin Ögüştü</b>	11:45-12:00	Numerical Analysis Of A Phase Change Material-Based Thermal Control System For Small Satellites <b>Burak İzgi</b>
12:00-12:15	On Hybrid Matrix Pencils <b>Emel Karaca</b>	12:00-12:15	The Effect Of The Use Of Paraffin Wax On The Regression Rate Of Hybrid Rocket Engines: A Review <b>Süreyya Sevinç Varol</b> , Bilge Albayrak Çeper, Nafiz Kahraman
12:15-12:30	Some Applications In Education Using Intuitionistic Fuzzy Sets <b>Ali Sınar</b> , Erhan Çetinkaya and Celalettin Akdoğan	12:15-12:30	
<b>LUNCH</b> 12:30-13:00			
<b>INVITED SPEAKER</b> Invariant Theory of Concrete Finite Groups <b>Prof. Dr. Şehmus Fındık</b> (Face to Face) <b>Chair:</b> Gökhan Çuvalcıoğlu 13:00-13:45			
<b>COFFEE BREAK</b> 13:45-14:00			
	HALL-A (Face to Face)-Mathematics		HALL-B (Face to Face)-Engineering
	Chair:		Chair:
14:00-14:15	On The Application Of The Fractional Order Obesity Model <b>Zafer Öztürk</b>	14:00-14:15	An Evaluation And Ranking Approach For E-Commerce Websites Based On Spherical Fuzzy Sets Under Industry 4.0 <b>Erdem Aksakal</b> , Zeynep Durmaz
14:15-14:30	Some Identities For Sequences Of Binomial Sums Of Generalized Padovan Identities Including Powers And Binomial Coefficients <b>Orhan Dişkaya</b>	14:15-14:30	The Effect Of Question Order On Exam Performance: An Example For Civil Engineering Students <b>Feride Maide Mızrakçı</b> , Savaş Bayram

14:30-14:45	On A Generalization Of The Hosoya Triangle <b>Turhan Çifçi</b> , Hamza Menken, Orhan Dişkaya	14:30-14:45	Human Factors-Based Design And Structural Analysis Of Military-Grade Ladder <b>İlayda Aldatmaz</b> , Mustafa Tellioglu, Selin Selen Eroglu
14:45-15:00	On Oscillation Of Linear Dynamic Equations Under Impulse Effects <b>Sibel Dogru Akgöl</b> , Ağacık Zafer	14:45-15:00	
<b>COFFEE BREAK</b> 15:00-15:15			
	<b>HALL-A (Face to Face)-Mathematics</b>		<b>HALL-B (Face to Face)-Engineering</b>
	Chair:		Chair:
15:15-15:30	Geometry Of Screen Generic Transversal Lightlike Submanifolds Of Indefinite Kaehler Manifolds <b>Nergiz Önen Poyraz</b> , Mehmet Akif Akyol	15:15-15:30	Frequency Constraint Handling Truss Optimization Using Bonobo Optimizer <b>İbrahim Behram Uğur</b>
15:30-15:45	A Dynamic Approach To The Fractional Order Prey-Predator Population Model <b>Zafer Öztürk</b>	15:30-15:45	Structural Optimization Of Military Type Electronic Cabinet <b>İlayda Aldatmaz</b> , Kaan Kartal, Anıl Açar
15:45-16:00	On A Class Of Fractional Impulsive <b>Sibel Dogru Akgöl</b> , Svetlin G. Georgiev	15:45-16:00	Flux Pinning Properties of Nano-Size Zn Doped Bi-2212 Superconductors <b>Mehmet Ersin Aytekin</b>
16:00-16:15	Multi-Step Trigonometric Cubic B-Spline Least –Squares Method For Regularized Long Wave Equation Bülent Saka, <b>Ömer Yazar</b>	16:00-16:15	
<b>COFFEE BREAK</b> 16:15-16:30			
	<b>HALL-A (Face to Face)-Mathematics</b>		<b>HALL-B (Face to Face)-Engineering</b>
	Chair:		Chair:
16:30-16:45	Integration Of The Type 2 Neutrosophic Fuzzy Sets And Scope Validity Ratio (Lawshe) Approach To Identify The Influential Criteria To Structure Of The Decision-Making Problems <b>Ömer Faruk Görçün</b> , Hande Küçükönder	16:30-16:45	Random Vibration Analysis And Evaluation Of The Military Vehicle Afes In Open And Closed Positions Under MIL-STD-810g <b>Selin Selen Eroglu</b> , İlayda Aldatmaz, Furkan Güteryüz
16:45-17:00	Stock Selection Using Multi Criteria Decision Making Methods on Intuitionistic Fuzzy Set Based Mehmet Çitil, <b>Mehmet Emin Akkurt</b>	16:45-17:00	Comparative Pyrolysis Kinetics Of Orange And Tangerine Peel <b>Meltem Kızılca Çoruh</b>
17:00-17:15	A New Plug And Play Algorithm And Its Applications To Super-Resolution Problem <b>Eda Nur Yıldırım</b> , İbrahim Karahan	17:00-17:15	Investigation And Comparing To Other Steel Of Springback Condition In Armor Steels <b>Mesut Yılmaz</b>
17:15-17:30	Re-Visit $J^*$ –Sequential Topology <b>Hassina Sabor Behmanush</b> , Mehmet Küçükaslan		
<b>GALA DINNER</b> 19:00			

6 SEPTEMBER 2024

**INVITED SPEAKER**

Intuitionistic Fuzzy l-Ideals and Intuitionistic Fuzzy l-Filters in l-Groups

**Prof. Dr. P.K. Sharma**(Online)

**Chair:** Gökhan Çuvalcıoğlu

09:00-09:45

**COFFEE BREAK**

09:45-10:00

<b>HALL-A (Online)-Mathematics</b>		<b>HALL-B (Online)-Engineering</b>	
Chair:		Chair:	
10:00-10:15	New Optical Soliton Solutions To The (3+1)-Dimensional Nonlinear Schrödinger Equation <b>Sibel Şehriban Ataş</b>	10:00-10:15	Oscillatory Flow Of Grains Down A Chute With Possible Impact Phenomena <b>Samire Yazar</b>
10:15-10:30	A New Finite Difference Method For The 2D Heat Equation <b>Özgül İlhan, Elif Tembelo</b>	10:15-10:30	Comparison Of Methods Used in Predicting National Electricity Energy Consumption Amounts And An Application With United Kingdom Data <b>Nefise Ertoy, Mehmet Akansel</b>
10:30-10:45	Conformal Robust Neural Networks with Stochastic Differential Equations to Detect Outlier Values <b>Mehmet Ali Kaygusuz, Vilda Purutçoğlu</b>	10:30-10:45	The Potential Of Ginsenosides As An Alternative To Anthracyclines In Breast Cancer Treatment: An In Silico Study Nil Sazlı, <b>Deniz Karataş</b>
10:45-11:00	The Congruity Of Solutions From Stochastic And Random Models In The Analysis Of Deterministic Systems With Uncertainty <b>Zafer Bekiryazıcı</b>	10:45-11:00	Gps Data Synchronisation Using Kalman Filter <b>Yusuf İslam Budak, Ali Köse, Pegah Mutlu</b>

**COFFEE BREAK**

11:00-11:15

<b>HALL-A (Online)-Mathematics</b>		<b>HALL-B (Online)- Engineering</b>	
Chair:		Chair:	
11:15-11:30	Some Novel Characteristics Of A New Variant Of Bernstein Operators <b>Nezihe Turhan Turan</b>	11:15-11:30	Examination Of Reasons For Leaving A Job With The Mcdm Method <b>Özgür Zateri, Serap Akcan Yetgin</b>
11:30-11:45	Likelihood Ratio Test and Consistent AIC Comparison for Gaussian Mixture on Biological Networks <b>Mehmet Ali Kaygusuz, Maruf Göğebakan, Vilda Purutçoğlu</b>	11:30-11:45	Evolving Flow Of A Grain In A Branching Channel <b>Samire Yazar</b>

11:45-12:00	A New Finite Difference Method For The First Order Wave Equation <b>Özgül İlhan, Günay Ergun Bülbül</b>	11:45-12:00	Vibration Analysis Of Functionally Graded Microbeams Based On Modified Couple Stress Theory <b>Duygu Atcı</b>
12:00-12:15	The Novel Examination Of Cahn-Allen Equation With Atangana-Baleanu Fractional Operator Ashı Alkan, <b>Halil Anaç</b>	12:00-12:15	A Pi Algorithm Based Approach For Optimum Parameter Estimation Of Rayleigh Distribution In Wind Energy Applications <b>Hilmi Aygün, Bayram Köse</b>
12:15-12:30	A Non Commutative Determinant Of Invertible Matrices On Universal Enveloping Algebras Of Free Leibniz Algebras <b>Zeynep Özkurt</b>	12:15-12:30	A Lexicographic Goal Programming Approach For Solving Multiple Goals In An E-Commerce Distribution Warehouse System <b>Ela Binici Fayetörbay, Erdem Aksakal</b>

**LUNCH**  
12:30-13:30

	<b>HALL-A (Online)-Mathematics</b>		<b>HALL-B (Online)- Mathematics</b>
	Chair:		Chair:
13:30-13:45	On Elliptic Sombor Index Of Zero Divisor Graphs <b>Fatma Tirik, Yaşar Nacaroglu</b>	13:30-13:45	On Invariants Of The Metabelian Product <b>Nazar Şahin Ögürlü</b>
13:45-14:00	Applications Of Non-Commutative Determinants: Non-Tame Automorphisms <b>Zeynep Özkurt</b>	13:45-14:00	A Minimal Maslov Number Condition For Displaceability In Certain Weakly Exact Symplectic Manifolds <b>Nil İpek Şirikeci</b>
14:00-14:15	Hyper-Dual Numbers Related To Generalized Tribonacci Numbers <b>Tülay Yağmur</b>	14:00-14:15	Existence Results For A P-Laplacian Caputo-Type Fractional Boundary Value Problem Via Fixed Point Theory <b>Tuğba Şenlik Çerdik, Fulya Yörük Deren</b>
14:15-14:30	A Novel Method To Solve Some Nonlinear Fractional Partial Differential Equations Ashı Alkan, <b>Halil Anaç</b>	14:15-14:30	Some Results On $I$ -Deferred Statistical Convergence Of Order Alpha Sequences In Paranormed Spaces <b>Zeynep Hande Toyganözü</b>

**COFFEE BREAK**  
14:30-14:45

	<b>HALL-A (Online)-Mathematics</b>		<b>HALL-B (Online)- Mathematics</b>
	Chair:		Chair:
14:45-15:00	Theoretical Improvements on Decomposed Fuzzy Sets <b>Ali Köseoğlu</b>	14:45-15:00	Subcategories Of Modules And Irreducible Representations Of Leavitt Path Algebras With Coefficients in A Commutative Ring <b>Ayten Koç</b>
15:00-15:15	$[\alpha, \beta]$ - Bounded Intuitionistic Fuzzy Sets And Subgroups <b>Ümit Deniz</b>	15:00-15:15	On Solutions Of Some Generalized Functional Equations Arising In Mathematical Psychology And Theory Of Learning <b>Ali Turab</b>
15:15-15:30	Gradation Of Intuitionistic Fuzzy Functions Ümit Deniz, <b>Neslihan Yılmaz</b>	15:15-15:30	Fixed Point Results in Quasi-Partial Metric Spaces Via $C$ -Class Functions With An Application <b>Maroua Meneceur</b>
15:30-15:45	Comparison Of Two İterative Algorithms For Root Finding <b>Şükran Konca, Bayram Köse, Bahar Demirtürk</b>	15:30-15:45	The Novel Examination Of Transport Equation With Atangana-Baleanu Fractional Operator <b>Hakkı Güngör</b>

## COFFEE BREAK

15:45-16:00

<b>HALL-A (Online)-Mathematics</b>		<b>HALL-B (Online)- Mathematics</b>	
	Chair:		Chair:
16:00-16:45	Multi-Scale Mathematical Analysis And Modeling Of Glycogenesis Pathways In The Liver <b>Deniz Öztürk</b>	16:00-16:45	Leavitt Path Algebras With Coefficients in A Commutative Unital Ring <b>Ayten Koç</b>
16:45-17:00	Sequence Spaces And Matrix Domain Of Quintet Band Matrix <b>Mustafa Cemil Bişgin</b>	16:45-17:00	The New Study For Solving The Nonlinear Fractional Partial Differential Equations <b>Hakkı Güngör</b>
17:00-17:15	A Study The Conduct Of Differential Identities On Semiprime $\sigma$ -Rings <b>Mehsin Jabel Atteya</b>	17:00-17:15	Radii Problems For Starlike And Convex Functions Associated With Sine And Cosine Functions For Some Basic Arithmetic Operations <b>Manivannan M</b>
17:15-17:30	Graph-Theoretical Approaches to Routing Problems in Computer Networks With Path-Coding Methods: Bloom Filter Vs Cuckoo Filter <b>Gökçe Çaylak Kayaturan</b>	17:15-17:30	An Integrated AHP-COBRA Approach on Decomposed Fuzzy Sets <b>Elif Başkan, Ali Köseoğlu, Rıdvan Şahin</b>
17:30-17:45	Comparison Of Similarity Measures Of Some L-Fuzzy Sets Gökhan Çuvalcıoğlu, <b>Cansu Altıncı</b>	17:30-17:45	A Multi-Criteria Decision Making Approach Using a New Similarity Measure Under the Neutrosophic Z-Number Universe <b>Güler Tuğba Gültekin, Elif Başkan, Rıdvan Şahin</b>

## CLOSING CEREMONY (Face to Face/Online)

17:45