



# 8<sup>th</sup> International Symposium on Multidisciplinary Studies and Innovative Technologies

SYMPOSIUM PROGRAM

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November 7-9, 2024, Ankara-Turkey

### November 7, 2024 (Virtual Presentations)

	9:00 am - 11:00 am	Session 1.1. (Virtual ROOM1) Chair: T.Ozseven	Session 1.2. (Virtual ROOM2) Chair: E.Yasar	Session 1.3. (Virtual ROOM3) Chair: O. Pektezel
	11:00 am - 11:30 am	Coffee Break		
Time (GMT+3)	11:30 am - 12:00 pm	<b>Keynote Speaker</b> <b>Session 2.1. (Virtual ROOM2)</b> <b>Assoc. Prof. Dr. Korhan Cengiz, University of Fujairah, United Arab Emirates</b>		
	12:00 pm - 1:00 pm	Lunch		
	1:00 pm - 3:00 pm	Session 3.1. (Virtual ROOM1) Chair: T.Ozseven	Session 3.2. (Virtual ROOM2) Chair: E.Yasar	
	3:00 pm - 3:30 pm	Coffee Break		
	3:30 pm - 5:30 pm	Session 4.1. (Virtual ROOM1) Chair: T. Ozseven	Session 4.2. (Virtual ROOM2) Chair: E. Yasar	

### November 8, 2024 (Virtual Presentations)

Time (GMT+3)	9:30 am - 12:00 pm	Session 5.1. (Virtual ROOM1) Chair: T.Ozseven	Session 5.2. (Virtual ROOM2) Chair: E.Yasar	Session 5.3. (Virtual ROOM3) Chair: O. Pektezel
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### November 9, 2024 (Virtual Presentations)

Time (GMT+3)	9:30 am - 11:30 am	Session 6.1. (Virtual ROOM2) Chair: E. Yasar		
	1:00 pm - 3:00 pm	Session 8.1. (Virtual ROOM2) Chair: E. Yasar		
	3:00 pm - 3:30 pm	Coffee Break		
	3:30 pm - 5:30 pm	Session 9.1. (Virtual ROOM2) Chair: E. Yasar		

### November 9, 2024 (In-person Presentations)

Time (GMT+3)	9:30 am - 11:30 am	Session 6.2. (In-person ROOM1) Chair:		
	11:30 am - 12:00 pm	<b>Keynote Speaker</b> <b>Session 7.1. (In-person ROOM1)</b> <b>Dr. Ali Berkol, Aselsan-Bites, Türkiye</b>		
	1:00 pm - 3:00 pm	Session 8.2. (In-person ROOM1) Chair:		

<b>Session 1.1. (Virtual ROOM1)</b>		Date: November 7, 2024
<b>Chair: Turgut Ozseven</b>		Time (GMT+3): 9:00 am - 11:00 am
<b>Paper</b>	<b>Author (s)</b>	
77 - A Modern Approach of Solution of Assignment Problems	Ali H. Abdullah, Mushtak A.K. Shiker, <b>Zahraa K. Hashim</b>	
70 - Various Fixed Points Results of Cyclic Mappings Satisfying Integral Contraction Conditions	Abbas Karim Nahi, <b>Salwa Salman Abed</b>	
243 - Hybrid Multiscale Residual Features For Network Anomaly Detection	<b>Salman Mohammed Jiddah</b> , Mohammed Muftah Abubaera, Salem Msaoud Adrugi, Ahmed Mohammed Omar Aesheebah	
244 - Improved Automatic Stress Detection Through Compound Facial Expressions Using Multi Scale Residual Network	<b>Salman Mohammed Jiddah</b> , Burcu Kuter, Kamil Yutkan	
299 - Security of AI-Powered Systems: Threat Intelligence on the Edge	<b>Radka Nacheva</b> , Otmane Azeroual	
288 - Identifying Degradation in Voice over Internet Protocol (VoIP) Communications through Audio-Based Transformer Models	Buse Cetin, <b>H.Hakan Kilinc</b> , Hasan Kilimci, Zeynep Hilal Kilimci	
195 - Impact of Generative AI in Revolutionizing Education	<b>Shayan Aamir</b> , Shafaq Fatima Mughal, Aeyaz Jamil Kayani, Muhammad Zain Yousuf, Omar Ali Rastgar, Ayesha Asif Syed	
250 - SWOT analysis of online examination of engineering students and strategies to improve its quality	<b>Fatme Rashidova</b>	
<b>Session 1.2. (Virtual ROOM2)</b>		Date: November 7, 2024
<b>Chair: Ebubekir Yasar</b>		Time (GMT+3): 9:00 am - 11:00 am
<b>Paper</b>	<b>Author (s)</b>	
233 - Predicting Transfer Passenger Numbers in Urban Rail Systems with Time Series	<b>Taha Yüksel</b>	
214 - Assessment of Demand Side Management Performance of DC Electric Springs in DC Microgrid Systems	<b>Kenan Ayten</b> , Murat Mustafa Savrun	
202 - VR-Based Promotion and Training of Electric Vehicles	<b>Hamza Eren Koç</b> , Muhammet Başarslan, Hikmet Canlı	
303 - An algorithm to support the review process of a scientific research project proposal using ChatGPT	<b>Aldeniz Rashidov</b>	
114 - Multi-Contour Security System Constructing Concept	Serhii Yevseiev, Serhii Toliupa, Serhii Pohasii, <b>Stanislav Milevskyi</b> , Vladyslav Sokol, Herman Zviertsev	
162 - Leveraging IoT Data for Real-Time Business Decision-Making	<b>Muthana Abdulwhab</b> , Jumaa Gareed, Ali J. Al- Shimary, Hussein Basim Furajil, Saadaldeen Rashid Ahmed, Sameer Algburi	
176 - Enhanced Image Processing for Improved Detection and Analysis of COVID-19 in Medical Imaging by Using Machine Learning Algorithms	<b>Sinan Ghanem Mikhwir Albadwi</b>	
<b>Session 1.3. (Virtual ROOM3)</b>		Date: November 7, 2024
<b>Chair: Oguzhan Pektezel</b>		Time (GMT+3): 9:00 am - 11:00 am
<b>Paper</b>	<b>Author (s)</b>	
163 - The Role of Artificial Intelligence in Enhancing English Language Communication and Operational Efficiency in Logistics and Transportation Systems	<b>Lana Dlawar Miran</b> , Wameedh Abduladheem, Ahmed Fouad Abdullah, Talib Abidzaid Al-Sharify, NoorUlhuda S. Ahmed, Saadaldeen Rashid Ahmed, Mohammed AlAqad, Sameer Algburi	
298 - Analysis Of Wireless Networks Transmission For Cathodic Protection In Petroleum Industry	<b>Muhammet Tahir Guneser</b> , Noor Qasim Atiyah Alsaedi	
162 - Leveraging IoT Data for Real-Time Business Decision-Making	<b>Muthana Abdulwhab</b> , Jumaa Gareed, Ali J. Al- Shimary, Hussein Basim Furajil, Saadaldeen Rashid Ahmed, Sameer Algburi	
176 - Enhanced Image Processing for Improved Detection and Analysis of COVID-19 in Medical Imaging by Using Machine Learning Algorithms	<b>Sinan Ghanem Mikhwir Albadwi</b>	
174 - Machine Learning Models For Optimizing Supply Chain Management	<b>Sanabel Alkubaisi</b> , Ali Fenjan, Talib Abidzaid Al-Sharify, Salsal Sadek Kanaan, Hussein Basim Furajil, Saadaldeen Rashid Ahmed	
203 - Study of Recurring Revenue Growth for IT Infrastructure Providers	<b>Veera Venkata Satyanarayana Kantipudi</b> , Seetha Raman, K Maddulety	
127 - Authentication and Authorization Method Based on McEliece Crypto-Code Construction	Roman Korolov, Stanislav Milevskyi, Leonid Shcherbyna, Yana Lutsenko, <b>Sergii Dunaiev</b> , Vadym Stetsenko	
312 - Study of Processing Modes in CNC Machining Centers	<b>Marin Zhilevski</b> , Viktoriya Kolibanekova, Mikho Mikhov, Nikolay Yordanov	

**Keynote Speaker**  
**Session 2.1. (Virtual ROOM2)**  
**Assoc. Prof. Dr. Korhan Cengiz, University of Fujairah, United Arab Emirates**

November 7, 2024

Time (GMT+3): 11:30 am - 12:00 pm

Chair: Ebubekir Yasar

Session 3.1. (Virtual ROOM1)	
Chair: Turgut Ozseven	
Date: November 7, 2024	
Time (GMT+3): 1:00 pm - 3:00 pm	
Paper	Author (s)
85 - Recommendation System Based on Opinion Mining: A Survey	<b>Amenah Nahedh AbdulAmeer</b> , Mohsin Hasan Hussein
89 - On $\beta^*$ -I-open Sets and $e^*$ -I-open Sets in Ideal Topological Spaces	Ali Shaker Mahmoud, <b>S.R Yassen</b>
276 - Efficient Key Management in Lightweight Cryptography: A New Hashing-Based Approach	Haider Al-Mahmood, <b>Saad Alsaad</b>
308 - Fake Voice Detection: A Hybrid CNN-LSTM Based Deep Learning Approach	<b>Saadin Oyucu</b> , Derya Betül Ünsal Çelimli, Ahmet Aksöz
91 - Applied Aspects of Polyharmonic Functions for Security and Reliability of Data Transmission	<b>Oleksandr Laptiev</b> , Andrii Sobchuk, Anton Ryzhov, Oleh Perehuda, Iryna Tsygansvska, Serhii Kopytko
289 - Cloud-based Documental Management System: A Bibliometric Review Analysis	<b>Duarte Silva</b> , Carlos Coutinho
179 - Mechatronics Maintenance: Detection and Diagnosis of Bearing Faults in a Fan Using Digital Signal Processing in MATLAB	<b>Adrian Nacarino</b> , Andre Rueda-Lopez, Joel Quispe-Castro, Bryan P. Vega-Samanez, Jose Cornejo
145 - Space Life Support Engineering and Biomechatronics towards the Moon and Mars: A Scoping Review	Jose Cornejo, Mariela Vargas, Milton V. Rivera, <b>Ricardo Palomares</b> , Ricardo Barreto, Jorge Cornejo
68 - The Bushy Sets in Cluster Topological Proximity Space	L. A. Al. Swidi, <b>Raghad Almohammed</b> , Maryam Khenyab Kareem
112 - Enhancing Human Computer Interaction (HCI) Through Machine Learning Applications	<b>Fahad Abdulateef Yaseen</b> , Mohammad Shihab Ahmed, Mokhalad Eesee Khudhur
246 - Enhanced Emotion Recognition from EEG Signals with ResConv U-Net Architecture	<b>Nasim Ahmadzadeh Nobari Azar</b>

Session 3.2. (Virtual ROOM2)	
Chair: Ebubekir Yasar	
Date: November 7, 2024	
Time (GMT+3): 1:00 pm - 3:00 pm	
Paper	Author (s)
115 - Application of Neural Networks for Network Traffic Monitoring and Analysis	<b>Oleksandr Kushnerov</b> , Pierre Murr, Serhii Herasymov, Stanislav Milevskyi, Marharyta Melnyk, Sergii Golovashych
251 - Harnessing LLMs for IoT Malware Detection: A Comparative Analysis of BERT and GPT-2	<b>Marwan Omar</b> , Hewa Zangana, Jamal Al Karaki, Derek Mohammed
247 - Transforming Social Media Analysis: TweetEval Benchmarking with Advanced Transformer Models	<b>Md Saiful Islam Sajol</b> , A S M Jahid Hasan, Md Shazid Islam, Md Saydur Rahman
180 - Mechatronics Fundamentals and Locomotion Analysis of Hybrid Mobile Robot: Rocker-Bogie Wheeled System and SCARA Manipulator	<b>Juan Alva</b> , Renzo Meza, Ricardo Palomares, Jose Cornejo
194 - Place-Belongingness Through Digital Language Learning and Placemaking	<b>Hesam Mohseni</b>
131 - Artificial Intelligence Against Climate Change Challenges: From Research to Action Towards a More Sustainable Future	<b>Ana Todorova</b> , Irina Kostadinova, Diana Antonova, Svilena Ruskova
307 - Urban Issue Reporting Applications Towards Government 2.0	<b>Joao Soares</b> , Carlos Coutinho
144 - Bio-inspired Design and Additive Manufacturing Techniques for Aquatic Robot Development based on the Locomotion of the Istiophorus (Sailfish)	<b>Bernabé Oscoco</b> , Victor Cuyotupac, Jose Mayorga, Robert Castro, Ricardo Palomares, Jose Cornejo
133 - Zoning and Rezoning Applications in Digital Buildings	<b>Dimitar Ivanov Mankov</b> , Docho Tsankov Tsankov
'304 - Do I Belong Here, There, or Elsewhere?': The Materiality and Intangible Benefits of Technology in Digital Nomads' Place-Belongingness	<b>Hesam Mohseni</b> , Marcos De Almeida, Daniel Schneider, Antonio Correia
226 - Optimizing Wireless Sensor Network Lifespan through Weighted Fitness Function in K-Means Clustering and Cluster Head Selection	<b>Fatima Harrouz</b> , Mohammed Omari, Mohammed Kaddi

Session 4.1. (Virtual ROOM1)	Date: November 7, 2024
Chair: Turgut Ozseven	Time (GMT+3): 3:30 pm - 5:30 pm
Paper	Author (s)
84 - A new transformer faults diagnosis method based on an improved Fuzzy C-means Clustering Algorithm	<b>Ali Abdul-hussian Hassan</b> , Ali Mohamed Hussein Nasralla , Abdul-hussien Hassan Habeb
80 - Analytical Solutions for the Nonlinear Homogeneous Fractional Burger's Equation using a Local Fractional Operator	Athmar Razaq Saeid, <b>Lamees K. Alzaki</b>
161 - AI-Based Predictive Analytics for Financial Risk Management	<b>Mahmood Alsaadi</b> , Mohammed Thakir ALmashhadany, Ahmed Sadoon Obaed, Hussein Basim Furajil, Siham Kamil, Saadaldeen Rashid Ahmed
76 - Using Sturms Technique to Find the Polynomials Real Roots	<b>Hussain Ali Mueen</b> , Mushtak A.K. Shiker
75 - Finding the Best Hamiltonian Cycle as a Solution to Applications of Maximizing the TSP	<b>Hussein A. H. Al-Saeedi</b> , Mushtak A.K. Shiker
158 - Thermodynamic and Thermo-economic Optimization of Combined Cycle Gas Turbine Power Plants for Enhanced Efficiency	<b>Hussein Majeed Mughir Hussein</b> , Sahar Ali Akbar Shakir Ibrahim
83 - Design and Implementation a Smart ICU Based on Cloud Computing	<b>Mohammed Abdulmahdi Mohammedali</b> , Laith A. AL-anzy, Ghadeer H. Eskandar
69 - Quasi-Subordination on pseudo and Bazilevic Bi-Univalent Functions Involving the Horadam Polynomials	<b>Mohammed H. Saloomi</b> , Sondekola Rudra Swamy, Mohamed Al-Sultani, Roaa Hatem Talib

Session 4.2. (Virtual ROOM2)	Date: November 7, 2024
Chair: Ebubekir Yasar	Time (GMT+3): 3:30 pm - 5:30 pm
Paper	Author (s)
175 - A Study Of Scalable Solutions For Smart Contracts Performance	<b>Mohammed Sabah Hameed Alsalim</b> , Osman Nuri UCAN
72 - A New C. G. Technique to Solve Non-Linear Systems of Equations	Doaa Hamzah Allawi, <b>Mushtak A.K. Shiker</b>
79 - Comparison Newton Method with Bisection Method for Solving Nonlinear Equations	Hussain Ali Mueen, <b>Mushtak A.K. Shiker</b>
141 - A System for Registering and Selecting Courses and Teaching Staff for Postgraduate Students	<b>Ali Atalah Yousif</b> , Saadi Hamad Thalij
86 - Feature-Driven Human Action Recognition from Mobile Sensor Data using Deep Learning Networks	<b>Muthana Hmod Abdullah</b> , M.A. Ahmed, ZT Al-Qaysi, SK Abdulateef
71 - Solving Non-Linear Systems of Equations by Using a New Line Search Algorithm	<b>Doaa Hamzah Allawi</b> , Mushtak A.K. Shiker
98 - TOPOLOGICAL SPACE ON THE RING OF THE INTEGERS MODULO N	<b>Reyadh D. Ali</b> , Amjad H. Alhusiny, Ghassan A. Qahtan, Ali K. Hasan, Hussam A.A. Mohammed
300 - Efficient PV Monitoring with LoRaWAN: Integrating IoT and Smartphone Application for Cost-Effective Solutions	Bilal Hashim Hameed, Sefer Kurnaz, <b>Saadalddeen Rashid Ahmed</b>
301 - Optimizing Hybrid Energy Systems: Employing Smart Monitoring Networks with IoT Integration	Anmar Yahya Taher, Sefer Kurnaz, <b>Saadalddeen Rashid Ahmed</b>

Session 5.1. (Virtual ROOM1)		Date: November 8, 2024
Chair: Turgut Özseven		Time (GMT+3): 09:30 am - 12:00 pm
Paper	Author (s)	
198 - Unveiling Communication Patterns: Helpful Visualizations of Communication in Online Video Conferences	<b>Thomas Spielhofer</b> , Renate Motschnig	
302 - Literature Review on Constraint Satisfaction Problems Solving	<b>Edlira Qefalija</b> , Halil Snopçe, Artan Dermaku	
267 - Türkçe El Yazısı Karakterler ile Veri Seti Oluşturulması	<b>Alperen Uzun</b> , Mehmet Öztürk	
200 - Optimal FOPID and RPIDD2 Controller Design Using Meta-Heuristic Optimization for AVR System	<b>Emre Hasan Dursun</b>	
281 - The Use of Exergame in a Multiplayer-Supported Virtual Clinic	<b>Tuğşad Öcal</b> , Muhammet Baykara, İsmail Uzun	
279 - 3D Convolution and Adaptive Patch-Size Based Random Patches Network for Hyperspectral Image Classification	Taner İnce, <b>Tuğcan Dündar</b>	
113 - Analysis of The Software Security Protection	<b>Andrii Tkachov</b> , Andrii Hapon, Dmytro Balagura, Oleksandr Sievierinov, Illia Bukatych, Alla Havrylova	
99 - Performance Analysis of Three-Phase Grid- Connected Inverter with Model Predictive Control Method in PIL Test Environment	<b>Ekrem Demir</b> , Ozan Gulbudak	
221 - Stochastic Single Server Scheduling Problem	<b>Emine Akyol Özer</b> , Tuğba Saraç	
Session 5.2. (Virtual ROOM2)		Date: November 8, 2024
Chair: Ebubekir Yasar		Time (GMT+3): 09:30 am - 12:00 pm
Paper	Author (s)	
63 - Classification Flower Images Based On Deep Learning and Machine Learning	<b>Asia Kamal Mustfa</b> , SK Abdulateef, Qabas Amer Hameed, M.A. Ahmed, ZT Al-Qaysi	
222 - SWOT Analysis of Open-Source Language Models	<b>Zeynep Örpek</b> , Büşra Tural, Zeynep Destan	
212 - Performance Evaluation and Comparison of Machine Learning Algorithms in Classification of CDC Diabetes Health Indicators Dataset by WEKA	<b>Kezban Alpan</b> , Bardia Arman, Kamil Dimililer	
178 - Effect of Sleep EEG, EOG, ECG and SPO2 Signals on Sleep Apnea Classification	<b>Evrin Yıldız</b> , Cengiz Tepe, Nevra Güllü Arslan	
97 - Cybersecurity of SMART Technologies Using Deep Learning Methods	<b>Oleksandr Milov</b> , Irada Rahimova, Alla Havrylova, Sergii Golovashych, Iryna Aksonova, Dmytro Pecherytsia	
291 - Does Profit Paradigm Shift? A comparative analysis of divestment on financial performance using non-parametric and Artificial Neural Network model	<b>Rekha Pillai</b> , Manar AL-Khatib	
197 - Application Level Fault Diagnosis in Organic Computing Using Stress Hormone Propagation	<b>Sabikun Nahar</b> , Utkarsh Raj, Simon Meckel, Roman Obermaisser	
67 - Effect of Including Attention Mechanisms on (yolov7) Ability to Recognize Gymnastics Motions	<b>Ahmed S. Abdullah</b> , Khalil I. Alsaif	
Session 5.3. (Virtual ROOM3)		Date: November 8, 2024
Chair: Oguzhan Pektezel		Time (GMT+3): 09:30 am - 12:00 pm
Paper	Author (s)	
248 - Feasibility Analysis of Wind-Battery Energy Storage Hybrid Systems in Türkiye	Busra Eyupoglu, <b>Kübra Nur Akpınar</b>	
266 - Periodicity Analysis of Most Time Series Methods: A Review	<b>Muneera Yousif</b> , Musab Ahmed Mohammed, Mete Celik, Asmaa E. Hamdoon, Riham Jassim, Noor M. Abdullah	
258 - Antecedents of PMO effectiveness in Technology projects in the Age of AI	<b>Aditya Basawn</b> , Seetha Raman	
231 - Information Technology Driven Innovations in Healthcare: Mapping The Research Trends By Co-Word Analysis	<b>Mustafa Volkan Güngör</b> , Dilek Özdemir Güngör, Çiğdem Tarhan	
196 - A Practical Guide to Calculating the Expansion Coefficient of a Transformer Tank for Rupture Analysis Using the Finite Element Method	<b>Kerim Kaplan</b> , Mohammad Hassan Hashemi	
183 - Application of TPE-Random Forest in Microwave Oven Fault Diagnosis Based on GAN and ADASYN Algorithm	<b>Jianqi Liu</b> , Bi Zeng, Feng Li, Huiting Hu	
215 - Machine Learning and Vision Transformer for CT Scanners' Calibration and Quality Assessment	<b>Khanh Man</b> , Majeed Soufian, Amani Alsaedi, Jon Fulford, Hairil Razak	
142 - Alpha logarithm-Rayleigh distribution with application	<b>Layla Mohsin</b> , Hazim Kalt	
234 - Personalized training on risk management in personal data sharing and information protection in the context of building specific competencies	<b>Miroslav Dechev</b> , Mariyana Nikolova	

Session 6.1. (Virtual ROOM2)		Date: November 9, 2024
Chair: Ebubekir Yaşar		Time (GMT+3): 09:30 am - 11:30 pm
Paper	Author (s)	
147 - Study of the Application of Logistic Regression and Naïve Bayes Algorithms for Automatic Classification of User Reviews in Bulgarian	Irena Valova, <b>Gabriel Kanev</b> , Tsvetelina Kaneva	
81 - Solving Ordinary Differential Equations with Variable Coefficients by Complex Al-Zughair Transform	Baneen Sadeq Mohammed Ali, <b>Walaa Hussein Ahmed</b> , Mohamed Al-Sultani	
271 - Metin Sınıflandırmaya Karşı Kriptografi Yöntemlerinin Kullanılması	<b>Ahmet Emre Ergün</b> , Özgü Can	
134 - Examination of PV panels' performance exposed to environmental stress with electroluminescence tests	<b>Ertuğrul Adıgüzel</b>	
272 - Filter-Based Image Enhancement Effects on CNN-Based Decision Support System for Cervical Cancer Diagnosis	<b>Ferat Efil</b> , Zafer Cömert	
278 - Single-Link Rotary Flexible Joint Control Using S-curve Motion Profile	<b>Ufuk Guner</b>	
148 - Araştırma Alanlarının Anlamsal Benzerlikleri Kullanılarak Bilimsel İş Birliği Ağlarının Oluşturulması	<b>Yusuf Yargı Baydilli</b>	

Session 6.2. (In-person ROOM1)		Date: November 9, 2024
Chair:		Time (GMT+3): 09:30 am - 11:30 pm
Paper	Author (s)	
309 - Analysis of Distribution Transformers at Various Insulating Conditions by Frequency Method	<b>Miroslav Gutten</b> , Daniel Korenciak, Jan Kanuch	
310 - Acoustic Emission Analysis of Dry Distribution Transformers	<b>Daniel Korenciak</b> , Miroslav Gutten, Jan Kanuch	
100 - PIFD Adaptation Mechanism on MRAC with Input Time Delay Plant	<b>Ebubekir Kökçam</b> , Nusret Tan	
297 - Retweet Prediction on Earthquake Tweets	<b>Sevginur İnce</b> , Ebru Akçapınar Sezer	
260 - Stability Delay Margins for Single-Area Load Frequency Control System with Inverter based Air Conditioners Using Rekasius Substitution with Resultant Theory	Mesut Güdek, <b>Burak Atasoy</b> , Saffet Ayasun	
90 - Bi-Clustering Anomaly Detection: A Dual-Stage Clustering Approach Using Bayesian Gaussian Mixture Models (Bi-BGMM)	<b>Ezgi Bingöl</b> , Gizem Bekar	
235 - Detection of Tomato Brown Rugose Fruit Virus in Anadol Peppers Using Deep Neural Networks and Multispectral Imaging	<b>Feyza Yılmaz</b> , Rifat Edizkan, Hasan Serhan Yavuz, Ömer Nezh Gerek	
157 - Cryptocurrency Prediction Using Deep Recurrent Neural Networks	Shayan Doroodian, <b>Emre Özbilge</b> , Mustafa Mulla	

Keynote Speaker		
Session 7.1. (In-person ROOM1)		
Dr. Ali Berkol, Aselsan-Bites, Türkiye		
November 9, 2024	Time (GMT+3): 11:30 am - 12:00 pm	Chair:



Session 8.1. (Virtual ROOM2)	Date: November 9, 2024
Chair: Ebubekir Yaşar	Time (GMT+3): 1:00 pm - 3:00 pm
Paper	Author (s)
129 - Mountain Gazelle Optimizer-tuned PID Controller for Frequency Stabilization of PV-Reheat Thermal Power System	Davut Izci, Serdar Ekinci, Laith Abualigah, <b>Raymond Ghandour</b> , Mohammad Salman
93 - Cloud Computing Based Smart Irrigation System for Big Farms	<b>Haider Kamel</b> , Laith A. AL-anzy
274 - Wildfire detection based on IoT technology	<b>Daniel Freira</b> , Carlos Coutinho
290 - Examination of Electromagnetic Interference Safety Limits Caused by High Voltage Transmission Lines According to International Standards	<b>Hidir Duzkaya</b> , M. Cengiz Taplamacioglu, Afrah A. J. Qali, Omurcan Aydin, Dogukan Pacal
159 - Backstepping Controller with Neural Network Supervisory for a Magnetic Levitation System	<b>Mustafa Kocaman</b> , Fatih Adiguzel
245 - Real Time Parking Space Detection System Using A Pixel-Based Processing Technique	Berkay Sener, <b>Serife Esra Dincer</b>
146 - Machine Learning and Deep Learning Techniques for Distinguishing Between Genuine Users and Impostors in EEG-Based Authentication Using Pattern Lock	<b>Aseel Yasir Younis</b> , Mocheheb Shuwandy
106 - A Novel Modulation Technique for Half Bridge Multilevel Inverter	<b>Sadık Özdemir</b> , Zafer Ortatepe
199 - Comparing Different Evaluation Metrics with the Grid Search Method for Classification of Highly Imbalanced Data	<b>Tsvetelina Kaneva</b> , Boris Evstatiev, Irena Valova, Nikolay Valov, Katerina Gabrovska-Evstatieva
295 - Management Models for Wireless Communication Channel Interference Monitoring	<b>Serhii Pohasii</b> , Serhii Holdobin, Natalia Brynza, Olga Vilkhivska, Oleksandr Bilotserkivskyi, Borys Samorodov

Session 8.2. (In-person ROOM1)	Date: November 9, 2024
Chair:	Time (GMT+3): 1:00 pm - 3:00 pm
Paper	Author (s)
268 - An approach to detection of dental restorations on panoramic radiographs	<b>Keveser Keşkekçi</b> , Gül Şahin, Fuat Türk, Murat Lüy, Fevzi Acar
242 - Computation of Robust Stability Regions for TimeDelayed DC Motor Speed Control System	<b>İbrahim Kuzu</b> , Saffet Ayasun
181 - Measuring Engagement in a Video Conference	<b>Jonathan Cyriax Brast</b> , Mauricio Altamirano Silva, Eicke Godehardt, Jörg Schäfer
210 - Examining the Role of Using Multiple Modalities for Teaching Large CS2 Classes	<b>Sofia Saleem</b>
177 - Regenerative Energy Control on a Batteryless Crab Fishing Vessel with SG/M	Orçun Şenler, <b>Murat Mustafa Savrun</b>
110 - The Design and Prototype Production of a Low-Power Voltage Sensor with a Resistive Divider	Hidir Duzkaya, <b>Suleyman Sungur Tezcan</b> , Ahmet Ocak, Orkun Kılıç
92 - Evaluation of Machine and Deep Learning Methods for Fraud Detection	<b>Can Akkaya</b> , Dionysis Goularas
182 - Robust Automatic Detection of Hip Prostheses in X-ray Images: A Method Based on Edge Detection and Circle Fitting	<b>Yahia Adwan</b> , Mehmet Öztürk
227 - Hosting Capacity for EV Charging in Distribution Networks	<b>Halil Hilmi Namli</b> , Gokturk Poyrazoglu, Ismail Bagci



Session 9.1. (Virtual ROOM2)	Date: November 9, 2024
Chair: Ebubekir Yaşar	Time (GMT+3): 3:30 pm - 5:30 pm
Paper	Author (s)
82 - Improving laser optical properties with layer coating Nd: YAG laser model	<b>Hasan Jasim</b> , Basim Farhan
111 - Unit Extended Exponential Distribution with an Application to Engineering Datasets	<b>Hazim Kalt</b> , Jamal Obeed, Ayat Sagheer
108 - New Version Conjugate Gradient Method for Image Impulse Noise Removals	<b>Basim A. Hassan</b> , Hisham M. Khudhur, Ayman W. Jasim
109 - Effect Conjugate Gradient Method for Solving Nonlinear Optimization Problems	<b>Basim A. Hassan</b> , Ahmed S. Ahmed
95 - A Highly Secured Cyber Security Threat Detection and Prevention System for IoT Using He-DNN	<b>Pragati Rana</b> , Patil BP
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