

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

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## ACCEPTED PAPERS

The **in-person part** of the organization will be held on **November 9, 2024**.

**Virtual presentations** will be held live via Zoom on **November 7 and 8, 2024**.

Title	Author(s)	Topic	Publishing	Participation Type
Optimizing Energy Efficiency in Smart Buildings through Intelligent HVAC Control Systems	Korhan Cengiz	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Optimizing Power Consumption in Data Centers through Intelligent Load Balancing Algorithms	Korhan Cengiz	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Classification Flower Images Based On Deep Learning And Machine Learning	Asia Kamal Mustfa, SK Abdulateef, Qabas Amer Hameed , M.A. Ahmed, ZT Al-Qaysi	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Effect of Including Attention Mechanisms on (yolov7) Ability to Recognize Gymnastics Motions	Ahmed S. Abdullah, Khalil I. Alsaif	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Quasi-Subordination on pseudo and Bazilevic Bi-Univalent Functions Involving the Horadam Polynomials	Mohammed H. Saloomi, Sondekola Rudra Swamy, Mohamed Al-Sultani, Roaa Hatem Talib	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Finding the Best Hamiltonian Cycle as a Solution to Applications of Maximizing the TSP	Hussein A. H. Al-Saeedi, Mushtak A.K. Shiker	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
A Modern Approach of Solution of Assignment Problems	Ali H. Abdullah , Mushtak A.K. Shiker, Zahraa K. Hashim	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Comparison Newton Method with Bisection Method for Solving Nonlinear Equations	Hussain Ali Mueen, Mushtak A.K. Shiker	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Analytical Solutions for the Nonlinear Homogeneous Fractional Burger's Equation using a Local Fractional Operator	Athmar Razaq Saeid, Lamees K. Alzaki	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Solving Ordinary Differential Equations with Variable Coefficients by Complex Al-Zughair Transform	Baneen Sadeq Mohammed Ali, Walaa Hussein Ahmed, Mohamed Al-Sultani	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
A new transformer faults diagnosis method based on an improved Fuzzy C-means Clustering Algorithm	Ali Abdul-hussian Hassan, Ali Mohamed Hussein Nasralla , Abdul-hussien Hassan Habeb	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Recommendation System Based on Opinion Mining: A Survey	Amenah Nahedh AbdulAmeer, Mohsin Hasan Hussein	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Feature-Driven Human Action Recognition from Mobile Sensor Data using Deep Learning Networks	Muthana Hmod Abdullah, M.A. Ahmed, ZT Al-Qaysi, SK Abdulateef	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Bi-Clustering Anomaly Detection: A Dual-Stage Clustering Approach Using Bayesian Gaussian Mixture Models (Bi-BGMM)	Ezgi Bingöl, Gizem Bekar	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person

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Title	Author(s)	Topic	Publishing	Participation Type
Evaluation of Machine and Deep Learning Methods for Fraud Detection	Can Akkaya, Dionysis Goularas	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Smart Continuous Wearable Real Time Monitoring System for Human Health Care based on IoT	Abbas Ahmed Muhammed, Auns Qusai Al-Naemi, Alaa Hamid Mohammed, Safa L. Kailan	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Cybersecurity of SMART Technologies Using Deep Learning Methods	Oleksandr Milov , Irada Rahimova, Alla Havrylova, Sergii Golovashych , Iryna Aksonova , Dmytro Pecherytsia	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
An Efficient Algorithm to Get the Score for The DNA Analysis Depending on The Properties of Nitrogen Base	Hadeel M. Saleh, Sahar Hamad Ahmed	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
New Version Conjugate Gradient Method for Image Impulse Noise Removals	Basim A. Hassan, Hisham M. Khudhur, Ayman W. Jasim	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Effect Conjugate Gradient Method for Solving Nonlinear Optimization Problems	Basim A. Hassan, Ahmed S. Ahmed	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Enhancing Human Computer Interaction (HCI) Through Machine Learning Applications	Fahad Abdulateef Yaseen, Mohammad Shihab Ahmed, Mokhalad Eesee Khudhur	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Analysis of The Software Security Protection	Andrii Tkachov, Andrii Hapon, Dmytro Balagura, Oleksandr Sievierinov, Illia Bukatych, Alla Havrylova	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Artificial Intelligence Against Climate Change Challenges: From Research to Action Towards a More Sustainable Future	Ana Todorova, Irina Kostadinova, Diana Antonova, Svilena Ruskova	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
A System for Registering and Selecting Courses and Teaching Staff for Postgraduate Students	Ali Atalah Yousif, Saadi Hamad Thalij	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Machine Learning and Deep Learning Techniques for Distinguishing Between Genuine Users and Impostors in EEG-Based Authentication Using Pattern Lock	Aseel Yasir Younis, Mocheheb Shuwandy	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Study of the Application of Logistic Regression and Naïve Bayes Algorithms for Automatic Classification of User Reviews in Bulgarian	Irena Valova, Gabriel Kanev, Tsvetelina Kaneva	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual

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Araştırma Alanlarının Anlamsal Benzerlikleri Kullanılarak Bilimsel İş Birliği Ağlarının Oluşturulması	Yusuf Yargı Baydilli	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Cryptocurrency Prediction Using Deep Recurrent Neural Networks	Shayan Doroodian, Emre Özbilge, Mustafa Mulla	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
AI-Based Predictive Analytics for Financial Risk Management	Mahmood Alsaadi, Mohammed Thakir Almashhadany, Ahmed Sadoon Obaed, Hussein Basim Furaijl, Siham Kamil, Saadaldeen Rashid Ahmed	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Leveraging IoT Data for Real-Time Business Decision-Making	Muthana Abdualwhab, Jumaa Gareed, Ali J. Al-Shimary, Hussein Basim Furaijl, Saadaldeen Rashid Ahmed, Sameer Algburi	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
The Role of Artificial Intelligence in Enhancing English Language Communication and Operational Efficiency in Logistics and Transportation Systems	Lana Dlawar Miran, Wameedh Abduladheem, Ahmed Fouad Abdullah, Talib Abidzaid Al-Sharify, Dr. Mohammed AlAqad, Saadaldeen Rashid Ahmed, Sameer Algburi	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Machine Learning Models For Optimizing Supply Chain Management	Sanabel Alkubaisi, Ali Fenjan, Talib Abidzaid Al-Sharify, Salsal Sadek Kanaan, Hussein Basim Furaijl, Saadaldeen Rashid Ahmed	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
A Study Of Scalable Solutions For Smart Contracts Performance	Mohammed Sabah Hameed Alsalim, Osman Nuri UCAN	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Enhanced Image Processing for Improved Detection and Analysis of COVID-19 in Medical Imaging by Using Machine Learning Algorithms	Sinan Ghanem Mikhwir ALBADWI	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
EFFECT OF SLEEP EEG, EOG, ECG and SPO2 SIGNALS ON SLEEP APNEA CLASSIFICATION	Evrin Yıldız, Cengiz Tepe, Nevra Güllü Arslan	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Measuring Engagement in a Video Conference	Jonathan Cyriax Brast, Mauricio Altamirano Silva, Eicke Godehardt, Jörg Schäfer	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Robust Automatic Detection of Hip Prostheses in X-ray Images: A Method Based on Edge Detection and Circle Fitting	Yahia Adwan, Mehmet Öztürk	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person



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Application of TPE-Random Forest in Microwave Oven Fault Diagnosis Based on GAN and ADASYN Algorithm	Jianqi Liu, Bi Zeng, Feng Li, Huiting Hu	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Impact of Generative AI in Revolutionizing Education	Shayan Aamir, Shafaq Fatima Mughal, Muhammad Zain Yousuf, Omar Ali Rastgar, Ayesha Asif Syed	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Comparing Different Evaluation Metrics with the Grid Search Method for Classification of Highly Imbalanced Data	Tsvetelina Kaneva, Boris Evstatiev, Irena Valova, Nikolay Valov, Katerina Gabrovska-Evstatieva	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
ITSM Automatic Incident Resolution Using Generative AI	Miguel Sousa , Carlos Coutinho	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Performance Evaluation and Comparison of Machine Learning Algorithms in Classification of CDC Diabetes Health Indicators Dataset by WEKA	Kezban Alpan, Bardia Arman, Kamil Dimililer	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
SWOT Analysis of Open-Source Language Models	Zeynep Örpek, Büşra Tural, Zeynep Destan	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Detection of Tomato Brown Rugose Fruit Virus in Anadol Peppers Using Deep Neural Networks and Multispectral Imaging	Feyza Yılmaz, Rifat Edizkan, Hasan Serhan Yavuz, Ömer Nezh Gerek	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Improved Automatic Stress Detection Through Compound Facial Expressions Using Multi Scale Residual Network	Salman Mohammed Jiddah, Burcu Kuter, Kamil Yutkan	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Enhanced Emotion Recognition from EEG Signals with ResConv U-Net Architecture	Nasim Ahmadzadeh Nobari Azar	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Transforming Social Media Analysis: TweetEval Benchmarking with Advanced Transformer Models	Md Saiful Islam Sajol, A S M Jahid Hasan, Md Shazid Islam, Md Saydur Rahman	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Classification of Alzheimer's Disease from MRI Imaging	Pranay Reddy Yallolla, Santhosh Vemula, Digvijay Singh Thakur, Shreeya Vanjari Mastier, Pranitha Kondra	Track 1. Artificial Intelligence & Machine Learning	IJMSIT	Virtual
Harnessing LLMs for IoT Malware Detection: A Comparative Analysis of BERT and GPT-2	Marwan Omar, Hewa Zangana, Jamal Al Karaki, Derek Mohammed	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Analytical Review of the Digital Technologies Usage in Education	Indira Uvaliyeva, Aigul Shaikhanova	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person

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Enhancing Encrypted DDoS Attack Detection: A Comparative Study of Graph Neural Networks and Transformer-based Models	Jayabharathi S, Arthi B	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Periodicity Analysis of Most Time Series Methods: A Review	Muneera Yousif, Musab Ahmed Mohammed , Mete CELIK , Asmaa E. Hamdoon, Riham Jassim, Noor M. Abdullah	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Türkçe el yazısı karakterler ile veri seti oluşturulması	Alperen UZUN, Mehmet ÖZTÜRK	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
An approach to detection of dental restorations on panoramic radiographs	Kevser Keşkekeçi, Gül Şahin, Fuat Türk, Murat Lüy, Fevzi Acar	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Metin Sınıflandırmaya Karşı Kriptografi Yöntemlerinin Kullanılması	Ahmet Emre ERGÜN, Özgü CAN	Track 1. Artificial Intelligence & Machine Learning	IJMSIT	Virtual
Filter-Based Image Enhancement Effects on CNN-Based Decision Support System for Cervical Cancer Diagnosis	FERAT EFIL	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Empowering Critical Thinking through AI: The PAIR Models Impact on Higher Education Excellence	Héctor Ramón Rodríguez Maya, Ana Beatriz Salas Valdes	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Comparative Analysis of VGG16 and ResNet-50 Architectures for Food Image Classification: A Deep Dive into Performance and Practical Implications	Liza Jha, Sylvia Miller, Jerry Wu	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Identifying Degradation in Voice over Internet Protocol (VoIP) Communications through Audio-Based Transformer Models	Buse Cetin, H.Hakan Kilinc, Hasan Kilimci, Zeynep Hilal Kilimci	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Does Profit Paradigm Shift? A comparative analysis of divestment on financial performance using non-parametric and Artificial Neural Network model	Rekha Pillai, Manar AL-Khatib	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Retweet Prediction on Earthquake Tweets	Sevginur İnce, Ebru Akçapınar Sezer	Track 1. Artificial Intelligence & Machine Learning	IEEE	In-person
Security of AI-Powered Systems: Threat Intelligence on the Edge	Radka Nacheva, Otmane Azeroual	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual



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Literature Review on Constraint Satisfaction Problems Solving	Edlira Qefalija, Halil Snopçe, Artan Dermaku	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Fake Voice Detection: A Hybrid CNN-LSTM Based Deep Learning Approach	Saadin Oyucu, Derya Betül Ünsal Çelimli, Ahmet Aksöz	Track 1. Artificial Intelligence & Machine Learning	IEEE	Virtual
Design and Implementation a Smart ICU Based on Cloud Computing	Mohammed Abdulmahdi Mohammedali, Laith A. AL-anzy, Ghadeer H. Eskandar	Track 2. Communication and Networking	IEEE	Virtual
Cloud Computing Based Smart Irrigation System for Big Farms	Haider Kamel, Laith A. AL-anzy	Track 2. Communication and Networking	IJMSIT	Virtual
A Highly Secured Cyber Security Threat Detection and Prevention System for IoT Using He-DNN	Pragati Rana, Patil BP	Track 2. Communication and Networking	IEEE	Virtual
Application of Neural Networks for Network Traffic Monitoring and Analysis	Oleksandr Kushnerov, Pierre Murr, Serhii Herasymov, Stanislav Milevskyi, Marharyta Melnyk, Sergii Golovashych	Track 2. Communication and Networking	IEEE	Virtual
A Traffic Violations System based on Service Decentralization and Spatial Clustering	Samah Fakhri Aziz, Manar Y. Kashmola	Track 2. Communication and Networking	IEEE	Virtual
Application Level Fault Diagnosis in Organic Computing Using Stress Hormone Propagation	Sabikun Nahar, Utkarsh Raj, Simon Meckel, Roman Obermaisser	Track 2. Communication and Networking	IEEE	Virtual
Optimizing Wireless Sensor Network Lifespan through Weighted Fitness Function in K-Means Clustering and Cluster Head Selection	Fatima Harrouz, Mohammed Omari, Mohammed Kaddi	Track 2. Communication and Networking	IEEE	Virtual
Personalized training on risk management in personal data sharing and information protection in the context of building specific competencies	Miroslav Dechev, Mariyana Nikolova	Track 2. Communication and Networking	IEEE	Virtual
Wildfire detection based on IoT technology	Daniel Freira, Carlos Coutinho	Track 2. Communication and Networking	IEEE	Virtual
Hybrid Multiscale Residual Features For Network Anomaly Detection	Salman Mohammed Jiddah, Mohammed Muftah Abubaera, Salem Msaoud Adrugi, Ahmed Mohammed Omar Aesheebah	Track 2. Communication and Networking	IEEE	Virtual
Wildfire detection based on IoT technology	Daniel Freira, Carlos Coutinho	Track 2. Communication and Networking	IEEE	Virtual

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Management Models for Wireless Communication Channel Interference Monitoring	Serhii Pohasii, Serhii Holdobin, Natalia Brynza, Olga Vilkhivska, Oleksandr Bilotserkivskyi, Borys Samorodov	Track 2. Communication and Networking	IEEE	Virtual
Solving Non-Linear Systems of Equations by Using a New Line Search Algorithm	Doaa Hamzah Allawi, Mushtak A.K. Shiker	Track 3. Computational Methods and Algorithms	IEEE	Virtual
A New C. G. Technique to Solve Non-Linear Systems of Equations	Doaa Hamzah Allawi, Mushtak A.K. Shiker	Track 3. Computational Methods and Algorithms	IEEE	Virtual
Unit Extended Exponential Distribution with an Application to Engineering Datasets	Hazim Kalt, Jamal Obeed, Ayat Sagheer	Track 3. Computational Methods and Algorithms	IEEE	Virtual
Alpha logarithm-Rayleigh distribution with application	Layla Mohsin, Hazim Kalt	Track 3. Computational Methods and Algorithms	IEEE	Virtual
Stochastic Single Server Scheduling Problem	Emine Akyol Özer, Tuğba Saraç	Track 3. Computational Methods and Algorithms	IEEE	Virtual
Real Time Parking Space Detection System Using A Pixel-Based Processing Technique	Berkay Sener, Serife Esra Dincer	Track 3. Computational Methods and Algorithms	IEEE	In-person
3D Convolution and Adaptive Patch-Size Based Random Patches Network for Hyperspectral Image Classification	Taner İnce, Tuğcan Dündar	Track 3. Computational Methods and Algorithms	IEEE	Virtual
Improving laser optical properties with layer coating Nd: YAG laser model	Hasan Jasim, Basim Farhan	Track 4. Electronic and Embedded Systems	IEEE	Virtual
GaN-based 6–18 GHz Power Amplifier MMIC	Salahuddin Zafar, Erdem Aras, Emirhan Urfali, Muhammad Imran Nawaz, Abdullah Hannan, Nasir Mohyuddin, Sajid Baloch, Ekmel Ozbay	Track 4. Electronic and Embedded Systems	IEEE	In-person
Computation of Robust Stability Regions for TimeDelayed DC Motor Speed Control System	İbrahim Kuzu, Saffet Ayasun	Track 4. Electronic and Embedded Systems	IEEE	In-person
Applied Aspects of Polyharmonic Functions for Security and Reliability of Data Transmission	Oleksandr Laptiev, Andrii Sobchuk, Anton Ryzhov, Oleh Perehuda, Iryna Tsygansvska, Serhii Kopytko	Track 5. Information Technology	IEEE	Virtual



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Multi-Contour Security System Constructing Concept	Serhii Yevseiev, Serhii Toliupa, Serhii Pohasii, Stanislav Milevskiy, Vladyslav Sokol, Herman Zviertsev	Track 5. Information Technology	IEEE	Virtual
Authentication and Authorization Method Based on McEliece Crypto-Code Construction	Roman Korolov, Stanislav Milevskiy, Leonid Shcherbyna, Yana Lutsenko, Sergii Dunaiev, Vadym Stetsenko	Track 5. Information Technology	IEEE	Virtual
Fostering Place-Belongingness Through Digital Language Learning and Digital Placemaking: A Research Design	Hesam Mohseni	Track 5. Information Technology	IEEE	Virtual
Unveiling Communication Patterns: Helpful Visualizations of Communication in Online Video Conferences	Thomas Spielhofer, Renate Motschnig	Track 5. Information Technology	IEEE	Virtual
VR-Based Promotion and Training of Electric Vehicles	Hamza Eren KOÇ, Muhammet BAŞARSLAN, Hikmet CANLI	Track 5. Information Technology	IEEE	Virtual
Study of Recurring Revenue Growth for IT Infrastructure Providers	Veera Venkata Satyanarayana Kantipudi, Seetha Raman, K Maddulety	Track 5. Information Technology	IEEE	Virtual
Examining the Role of Using Multiple Modalities for Teaching Large CS2 Classes	Sofia Saleem	Track 5. Information Technology	IEEE	Virtual
Information Technology Driven Innovations in Healthcare: Mapping The Research Trends By Co-Word Analysis	Mustafa Volkan GÜNGÖR, Dilek ÖZDEMİR GÜNGÖR, Çiğdem TARHAN	Track 5. Information Technology	IEEE	Virtual
SWOT analysis of online examination of engineering students and strategies to improve its quality	Fatme Rashidova	Track 5. Information Technology	IEEE	Virtual
Analyzing Current Status and Trends in Artificial Intelligence in Education	Indira Uvaliyeva, Kainizhamal Iklassova	Track 5. Information Technology	IEEE	In-person
Efficient Key Management in Lightweight Cryptography: A New Hashing-Based Approach	Haider Al-Mahmood, Saad Alsaad	Track 5. Information Technology	IEEE	Virtual
Cloud-based Documental Management System: A Bibliometric Review Analysis	Duarte Silva, Carlos Coutinho	Track 5. Information Technology	IEEE	Virtual
The Bushy Sets in Cluster Topological Proximity Space	L. A. Al. Swidi, Raghad Almohammed, Maryam Khenyab Kareem	Track 6. Innovative Research and Development	IEEE	Virtual





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Various Fixed Points Results of Cyclic Mappings Satisfying Integral Contraction Conditions	Abbas Karim Nahi, Salwa Salman Abed	Track 6. Innovative Research and Development	IEEE	Virtual
Using Sturms Technique to Find the Polynomials Real Roots	Hussain Ali Mueen, Mushtak A.K. Shiker	Track 6. Innovative Research and Development	IEEE	Virtual
IoT Earthquake Detection Using Localization and GSM Networks	Nassir Mofi, Abdullah Hassan, Abdullah Alsaffar, Saud Alhajaj Aldossari	Track 6. Innovative Research and Development	IEEE	In-person
On $\beta$ -I-open Sets and $e^*$ -I-open Sets in Ideal Topological Spaces	Ali Shaker Mahmoud, , S.R Yassen	Track 6. Innovative Research and Development	IEEE	Virtual
TOPOLOGICAL SPACE ON THE RING OF THE INTEGERS MODULO N	Reyadh D. Ali, Amjad H. Alhusiny, Ghassan A. Qahtan, Ali K. Hasan, Hussam A.A. Mohammed	Track 6. Innovative Research and Development	IEEE	Virtual
Mountain Gazelle Optimizer-tuned PID Controller for Frequency Stabilization of PV-Reheat Thermal Power System	Davut Izci, Serdar Ekinci, Laith Abualigah, Raymond Ghandour, Mohammad Salman	Track 6. Innovative Research and Development	IEEE	Virtual
Space Life Support Engineering and Biomechanics towards the Moon and Mars: A Scoping Review	Jose Cornejo, Mariela Vargas, Milton V. Rivera, Ricardo Palomares, Ricardo Barreto, Jorge Cornejo	Track 6. Innovative Research and Development	IEEE	Virtual
Mechatronics Maintenance: Detection and Diagnosis of Bearing Faults in a Fan Using Digital Signal Processing in MATLAB	Adrian Nacarino, Andre Rueda-Lopez, Joel Quispe-Castro, Bryan P. Vega-Samanez, Jose Cornejo	Track 6. Innovative Research and Development	IEEE	Virtual
Mechatronics Fundamentals and Locomotion Analysis of Hybrid Mobile Robot: Rocker-Bogie Wheeled System and SCARA Manipulator	Juan Alva, Renzo Meza, Ricardo Palomares, Jose Cornejo	Track 6. Innovative Research and Development	IEEE	Virtual
A Practical Guide to Calculating the Expansion Coefficient of a Transformer Tank for Rupture Analysis Using the Finite Element Method	Kerim Kaplan, Mohammad Hassan Hashemi	Track 6. Innovative Research and Development	IEEE	Virtual
Machine Learning and Vision Transformer for CT Scanners' Calibration and Quality Assessment	Khanh Quoc, Majeed Soufian, Amani Alsaedi, Mohammed Abdelsamea, Jon Fulford, Hairil Razak	Track 6. Innovative Research and Development	IEEE	In-person
Antecedents of PMO effectiveness in Technology projects in the Age of AI	Aditya Basawn, Seetha Raman	Track 6. Innovative Research and Development	IEEE	Virtual

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MODELS FOR INTENSIFICATION OF ELASTOPLASTIC DEFORMATION OF POWDER COMPOSITES OF THE "IRON CAST IRON" TYPE IN A RIGID MATRIX	Arif Mammadov, Afat Jafarova, Farid Jafarov	Track 6. Innovative Research and Development	IEEE	Virtual
The Use of Exergame in a Multiplayer-Supported Virtual Clinic	Tuğşad Öcal, Muhammet Baykara, İsmail Uzun	Track 6. Innovative Research and Development	IEEE	Virtual
An algorithm to support the review process of a scientific research project proposal using ChatGPT	Aldeniz Rashidov	Track 6. Innovative Research and Development	IEEE	Virtual
Urban Issue Reporting Applications Towards Government 2.0	Joao Soares, Carlos Coutinho	Track 6. Innovative Research and Development	IEEE	Virtual
Performance Analysis of Three-Phase Grid- Connected Inverter with Model Predictive Control Method in PIL Test Environment	Ekrem DEMIR, Ozan GULBUDAK	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
A Novel Modulation Technique for Half Bridge Multilevel Inverter	Sadık Özdemir, Zafer Ortatepe	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
The Design and Prototype Production of a Low-Power Voltage Sensor with a Resistive Divider	Hidir Duzkaya, Suleyman Sungur TEZCAN, Ahmet OCAK, Orkun KILIÇ	Track 7. Power-Energy and Power Electronics	IEEE	In-person
Examination of PV panels' performance exposed to environmental stress with electroluminescence tests	Ertuğrul Adıgüzel	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
Regenerative Energy Control on a Batteryless Crab Fishing Vessel with SG/M	Orçun Şenler, Murat Mustafa Savrun	Track 7. Power-Energy and Power Electronics	IEEE	In-person
Assessment of Demand Side Management Performance of DC Electric Springs in DC Microgrid Systems	Kenan Ayten, Murat Mustafa Savrun	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
Hosting Capacity for EV Charging in Distribution Networks	Halil Hilmi Namli, Gokturk Poyrazoglu, Ismail Bagci	Track 7. Power-Energy and Power Electronics	IEEE	In-person
Feasibility Analysis of Wind-Battery Energy Storage Hybrid Systems in Türkiye	Busra Eyupoglu, Kübra Nur Akpınar	Track 7. Power-Energy and Power Electronics	IJMSIT	Virtual
Stability Delay Margins for Single-Area Load Frequency Control System with Inverter based Air Conditioners Using Rekasius Substitution with Resultant Theory	Mesut Güdek, Burak Atasoy, Saffet Ayasun	Track 7. Power-Energy and Power Electronics	IEEE	In-person



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Examination of Electromagnetic Interference Safety Limits Caused by High Voltage Transmission Lines According to International Standards	Hidir Duzkaya, M. Cengiz Taplamacioglu, Afrah A. J. Qali, Omurcan Aydin, Dogukan Pacal	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
Analysis Of Wireless Networks Transmission For Cathodic Protection In Petroleum Industry	Muhammet Tahir Gunecer, Noor Qasim Atiyah Alsaedi	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
Efficient PV Monitoring with LoRaWAN: Integrating IoT and Smartphone Application for Cost-Effective Solutions	Bilal Hashim Hameed, Sefer Kurnaz, Saadaldeen Rashid Ahmed	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
Optimizing Hybrid Energy Systems: Employing Smart Monitoring Networks with IoT Integration	Anmar Yahya Taher, Sefer Kurnaz, Saadaldeen Rashid Ahmed	Track 7. Power-Energy and Power Electronics	IEEE	Virtual
PIFD Adaptation Mechanism on MRAC with Input Time Delay Plant	Ebubekir Kökçam, Nusret TAN	Track 8. Robotic-Automation and Control	IEEE	In-person
Zoning and Rezoning Applications in Digital Buildings	Dimitar Ivanov Mankov, Docho Tsankov Tsankov	Track 8. Robotic-Automation and Control	IEEE	Virtual
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Single-Link Rotary Flexible Joint Control Using S-curve Motion Profile	Ufuk GUNER	Track 8. Robotic-Automation and Control	IEEE	Virtual

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