



ISMSIT
2024

8th International Symposium on Multidisciplinary Studies and Innovative Technologies

November 7-9, 2024, Ankara, Türkiye

Symposium Information

Comittees

Symposium Statistics

Accepted Papers

Technical Program



www.ismsitconf.org

ismsitconf@ismsitconf.org



Welcome to ISMSIT2024


International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT) has been organized since 2017. The symposium aims to bring scientists, experts, instructors, non-governmental organizations, and private sector representatives together to share and discuss theoretical and practical knowledge in a scientific framework. In addition to cutting edge research paper presentations in engineering areas, the symposium serves as a multi-disciplinary platform for discussing current issues in the multidisciplinary studies and innovative technologies.

The technical program of ISMSIT2024 will include the presentation of invited speakers and regular sessions. ISMSIT is an international symposium organized by universities, research groups, companies, and technology groups from many other countries to communicate their research results and innovative applications.

Authors are invited to submit full papers for consideration in the symposium. All submitted papers will be double-blind peer reviewed, and evaluated based on originality, research content, correctness, relevance to the symposium, and readability. Only accepted papers will be presented and published in the conference proceedings.

The official languages of the symposium are Turkish and English. Papers in both languages are accepted.

The main topics of the congress are **"Artificial Intelligence & Machine Learning"**, **"Communication and Networking"**, **"Computational Methods and Algorithms"**, **"Electronic and Embedded Systems"**, **"Information Technology"**, **"Innovative Research and Development"**, **"Power, Energy and Power Electronics"**, **"Robotic, Automation and Control"**.

ISMSIT 2024 is technically sponsored by  .

Important Dates

Deadline for Submission	: September 15, 2024
Deadline for Notification	: October 5, 2024
Deadline for Registration	: October 15, 2024
Deadline for Camera-Ready Papers	: October 25, 2024

Scope

Track 1: Artificial Intelligence & Machine Learning	Track 2: Communication and Networking
Track 3: Computational Methods and Algorithms	Track 4: Electronic and Embedded Systems
Track 5: Information Technology	Track 6: Innovative Research and Development
Track 7: Power, Energy and Power Electronics	Track 8: Robotic, Automation and Control

Sponsors & Supporters



ISMSIT 2024 Invited Speakers



Assoc. Prof. Dr. Korhan Cengiz
Istinye University, Türkiye
University of Hradec Kralove, Czech Republic
University of Fujairah, United Arab Emirates

Title: "Novel Research Schemes for 5G and Beyond"

Short-Bio:

Assoc. Prof. Dr. Korhan Cengiz was born in Edirne, Turkey, in 1986. He received the BSc degrees in Electronics and Communication Engineering from Kocaeli University and Business Administration from Anadolu University, Turkey in 2008 and 2009 respectively. He took his MSc degree in Electronics and Communication Engineering from Namik Kemal University, Turkey in 2011, and the PhD degree in Electronics Engineering from Kadir Has University, Turkey in 2016. Since March 2023, He has been a Senior Researcher in the department of Information Technologies, University of Hradec Kralove, Kralove, Czech Republic. Since September 2022, He has been an Associate Professor in the department of Computer Engineering, Istinye University, Istanbul, Turkey. Since April 2022, he has been the chair of the research committee of University of Fujairah, United Arab Emirates. Since August 2021, he has been an Assistant Professor at the College of Information Technology in University of Fujairah, UAE. Dr. Cengiz is the author of more than 40 SCI / SCI-E articles including IEEE Internet of Things Journal, IEEE Access, Expert Systems with Applications, Knowledge Based Systems and ACM Transactions on Sensor Networks, 5 international patents, more than 10 book chapters, and 1 book in Turkish. He is editor of more than 20 books. His research interests include wireless sensor networks, wireless communications, statistical signal processing, indoor positioning systems, internet of things, power electronics and 5G. He is the Associate Editor of IEEE Transactions on Intelligent Transportation Systems, IEEE Potentials Magazine, Handling Editor of Microprocessors and Microsystems, Elsevier, Associate Editor of IET Electronics Letters, and IET Networks. He serves several reviewer positions for IEEE Internet of Things Journal, IEEE Sensors Journal and IEEE Access. He serves several book editor positions in IEEE, Springer, Elsevier, Wiley and CRC. He presented 40+ keynote talks in reputed IEEE and Springer Conferences about WSNs, IoT and 5G. He is Senior Member, IEEE and Professional Member of ACM. Dr. Cengiz's awards and honors include the Tubitak Priority Areas PhD Scholarship, the Kadir Has University PhD Student Scholarship, best presentation award in ICAT 2016 Conference and best paper award in ICAT 2018 Conference.



Dr. Ali Berkol
Aselsan-Bites, Türkiye

Title: "Synergies of Generative AI, Edge AI, and Explainable AI in Defense Industry: Exploring Future Frontiers"

Short-Bio:

Ali Berkol completed his Bachelor's degree in Electrical-Electronics Engineering at Başkent University. He pursued his Master's studies in Aerospace Engineering at Middle East Technical University (ODTÜ) and also at Başkent University in the field of Electrical-Electronics Engineering. He obtained his Ph.D. in Artificial Intelligence from Başkent University, focusing on the same discipline. He commenced his professional career at TAI-Turkish Aerospace Industries, serving as a System Engineer in Avionics Systems for 2 years part-time and 8 years full-time. Subsequently, he continued as a Senior Systems Engineer at SDT-Space and Defence Technologies for 2 years. Following this, he engaged in academia for 3 years at Başkent University, holding managerial positions at the incubation center. For the past 4 years, he has been serving as the Avionics Program Manager at Aselsan-Bites. Ali Berkol has authored over 70 indexed journal and conference publications.

ISMSIT 2024

Committees

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Cem Emeksiz, Tokat Gaziosmanpaşa University, Türkiye

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- » Şeyda Eyüpoğlu, Istanbul University-Cerrahpasa, Türkiye

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- » Cengiz Taplamacioğlu, Gazi University, Türkiye
- » Ceyhun Karpuz, Pamukkale University, Türkiye
- » Chun-Wei Tung, Kaohsiung Medical University, Taiwan
- » Cuma Bindal, Sakarya University, Türkiye
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- » Jose Cornejo, Center for Space Systems, Spain
- » Kamil Dimililer, Near East University, Cyprus
- » Katarzyna Pietrucha-Urbanik, Rzeszow University of Technology, Poland
- » Kenan Zengin, Gaziosmanpaşa University, Türkiye
- » Ljiljana Trajkovic, Simon Fraser University, Canada

- » Lucian N. Vintan, University of Sibiu , Romania
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- » Mete Çelik, Erciyes University, Türkiye
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- » Nesrin Aydın Atasoy, Karabük University, Türkiye
- » Nur Syazreen Ahmad, Universiti Sains Malaysia, Malaysia
- » Nuray Emin, Kastamonu University, Türkiye
- » Nursal Arıcı, Gazi University, Türkiye
- » Patrick Goh Kuan Lye, Universiti Sains Malaysia, Malaysia
- » Recep Özdağ, Yüzüncü Yıl University, Türkiye
- » Ricardo Branco, University of Coimbra, Portugal
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- » Yasemin Çetin Kaya, Gaziosmanpaşa University, Türkiye
- » Yasin Kanbur, Karabük University, Türkiye
- » Yasin Sarıkavak, Ankara Yıldırım Beyazıt University, Türkiye
- » Zafer Dogan, Tokat Gaziosmanpaşa University, Türkiye

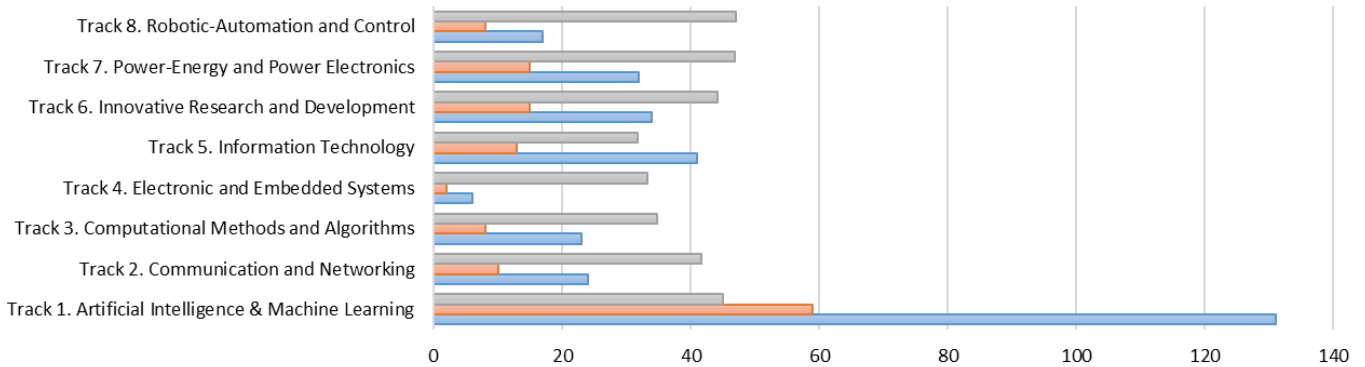
Paper Submission Policies

- Paper Process
 - Papers must be prepared at the highest level of quality .
 - Papers have a maximum page limit of 6 pages including references, graphs and figures. If they exceed 6 pages, author must pay extra fee.
 - Since the acceptance rate will be kept below 60%, priority will be given to papers with high review scores.
 - A speaker can present a maximum of 3 papers. An author's name can be included on maximum 5 papers.
- Plagiarism Rate: 20% without references, 30% with references at most
- Review: Double-blind / at least 3 reviewers per paper

ISMSIT 2024 Symposium Statistics

Submissions By Topics

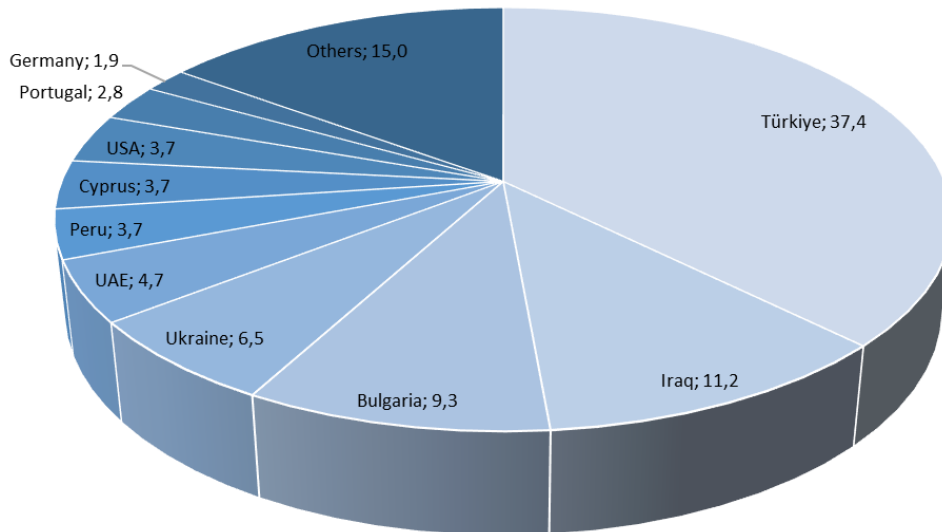
Acceptance Rate (42.21%)



	Track 1. Artificial Intelligence & Machine Learning	Track 2. Communication and Networking	Track 3. Computational Methods and Algorithms	Track 4. Electronic and Embedded Systems	Track 5. Information Technology	Track 6. Innovative Research and Development	Track 7. Power-Energy and Power Electronics	Track 8. Robotic-Automation and Control
Acceptance Rate (%)	45,04	41,67	34,78	33,33	31,71	44,12	46,88	47,06
Accepted Paper Count	59	10	8	2	13	15	15	8
Submitted Paper Count	131	24	23	6	41	34	32	17

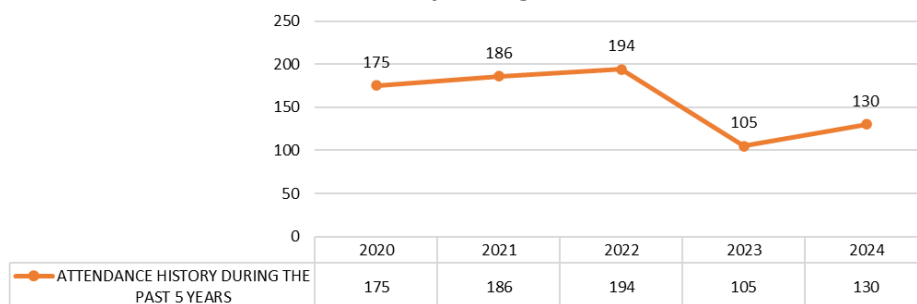
Acceptance Rate (%) Accepted Paper Count Submitted Paper Count

Top 10 Countries



Afghanistan, Austria, Brazil, Bulgaria, China, Cyprus, Finland, Germany, India, Iraq, Jordan, Mexico, North Macedonia, Pakistan, Palestine State, Peru, Portugal, Singapore, Slovakia, Türkiye, UAE, UK, Ukraine, USA

Attendance History During the Past 5 Years



ISMSIT 2024 Accepted Papers	
Title	Author(s)
Optimizing Energy Efficiency in Smart Buildings through Intelligent HVAC Control Systems	Korhan Cengiz
Optimizing Power Consumption in Data Centers through Intelligent Load Balancing Algorithms	Korhan Cengiz
Classification Flower Images Based On Deep Learning And Machine Learning	Asia Kamal Mustfa, SK Abdulateef, Qabas Amer Hameed , M.A. Ahmed, ZT Al-Qaysi
Effect of Including Attention Mechanisms on (yolov7) Ability to Recognize Gymnastics Motions	Ahmed S. Abdullah, Khalil I. Alsaif
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
Finding the Best Hamiltonian Cycle as a Solution to Applications of Maximizing the TSP	Hussein A. H. Al-Saeedi, Mushtak A.K. Shiker
A Modern Approach of Solution of Assignment Problems	Ali H. Abdullah , Mushtak A.K. Shiker, Zahraa K. Hashim
Comparison Newton Method with Bisection Method for Solving Nonlinear Equations	Hussain Ali Mueen, Mushtak A.K. Shiker
Analytical Solutions for the Nonlinear Homogeneous Fractional Burger's Equation using a Local Fractional Operator	Athmar Razaaq Saeid, Lamees K. Alzaki
Solving Ordinary Differential Equations with Variable Coefficients by Complex Al-Zughair Transform	Baneen Sadeq Mohammed Ali, Walaa Hussein Ahmed, Mohamed Al-Sultani
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
Recommendation System Based on Opinion Mining: A Survey	Amenah Nahedh AbdulAmeer, Mohsin Hasan Hussein
Feature-Driven Human Action Recognition from Mobile Sensor Data using Deep Learning Networks	Muthana Hmod Abdullah, M.A. Ahmed, ZT Al-Qaysi, SK Abdulateef
Bi-Clustering Anomaly Detection: A Dual-Stage Clustering Approach Using Bayesian Gaussian Mixture Models (Bi-BGMM)	Ezgi Bingöl, Gizem Bekar
Evaluation of Machine and Deep Learning Methods for Fraud Detection	Can Akkaya, Dionysis Goularas
Cybersecurity of SMART Technologies Using Deep Learning Methods	Oleksandr Milov , Irada Rahimova, Alla Havrylova, Sergii Golovashych , Iryna Aksonova , Dmytro Pecherytsia
An Efficient Algorithm to Get the Score for The DNA Analysis Depending on The Properties of Nitrogen Base	Hadeel M. Saleh, Sahar Hamad Ahmed
New Version Conjugate Gradient Method for Image Impulse Noise Removals	Basim A. Hassan, Hisham M. Khudhur, Ayman W. Jasim
Effect Conjugate Gradient Method for Solving Nonlinear Optimization Problems	Basim A. Hassan, Ahmed S. Ahmed
Enhancing Human Computer Interaction (HCI) Through Machine Learning Applications	Fahad Abdulateef Yaseen, Mohammad Shihab Ahmed, Mokhalad Eesee Khudhur
Analysis of The Software Security Protection	Andrii Tkachov, Andrii Hapon, Dmytro Balagura, Oleksandr Sievierinov, Illia Bukatych, Alla Havrylova
Artificial Intelligence Against Climate Change Challenges: From Research to Action Towards a More Sustainable Future	Ana Todorova, Irina Kostadinova, Diana Antonova, Svilena Ruskova
A System for Registering and Selecting Courses and Teaching Staff for Postgraduate Students	Ali Atalah Yousif, Saadi Hamad Thalij
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
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
Araştırma Alanlarının Anlamsal Benzerlikleri Kullanılarak Bilimsel İş Birliği Ağlarının Oluşturulması	Yusuf Yargı Baydilli

ISMSIT 2024 Accepted Papers	
Title	Author(s)
Cryptocurrency Prediction Using Deep Recurrent Neural Networks	Shayan Doroodian, Emre Özbilge, Mustafa Mulla
AI-Based Predictive Analytics for Financial Risk Management	Mahmood Alsaadi, Mohammed Thakir Almarshhadany, Ahmed Sadoon Obaed, Hussein Basim Furajil, Siham Kamil, Saadaldeen Rashid Ahmed
Leveraging IoT Data for Real-Time Business Decision-Making	Muthana Abdualwhab, Jumaa Gareed, Ali J. Al- Shimary, Hussein Basim Furajil, Saadaldeen Rashid Ahmed, Sameer Algburi
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, NoorUlhuda S. Ahmed, Saadaldeen Rashid Ahmed, Mohammed AlAqad, Sameer Algburi
Machine Learning Models For Optimizing Supply Chain Management	Sanabel Alkubaisi, Ali Fenjan, Talib Abidzaid Al-Sharify, Salsal Sadek Kanaan, Hussein Basim Furajil, Saadaldeen Rashid Ahmed
A Study Of Scalable Solutions For Smart Contracts Performance	Mohammed Sabah Hameed Alsalm, Osman Nuri UCAN
Enhanced Image Processing for Improved Detection and Analysis of COVID-19 in Medical Imaging by Using Machine Learning Algorithms	Sinan Ghanem Mikhwir ALBADWI
EFFECT OF SLEEP EEG, EOG, ECG and SPO2 SIGNALS ON SLEEP APNEA CLASSIFICATION	Evrin Yıldız, Cengiz Tepe, Nevra Güllü Arslan
Measuring Engagement in a Video Conference	Jonathan Cyriax Brast, Mauricio Altamirano Silva, Eicke Godehardt, Jörg Schäfer
Robust Automatic Detection of Hip Prostheses in X-ray Images: A Method Based on Edge Detection and Circle Fitting	Yahia Adwan, Mehmet Öztürk
Application of TPE-Random Forest in Microwave Oven Fault Diagnosis Based on GAN and ADASYN Algorithm	Jianqi Liu, Bi Zeng, Feng Li, Huiting Hu
Impact of Generative AI in Revolutionizing Education	Shayan Aamir, Shafaq Fatima Mughal, Aeyaz Jamil Kayani, Muhammad Zain Yousuf, Omar Ali Rastgar, Ayesha Asif Syed
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
Performance Evaluation and Comparison of Machine Learning Algorithms in Classification of CDC Diabetes Health Indicators Dataset by WEKA	Kezban Alpan, Bardia Arman, Kamil Dimililer
SWOT Analysis of Open-Source Language Models	Zeynep Örpek, Büşra Tural, Zeynep Destan
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 Neziğ Gerek
Improved Automatic Stress Detection Through Compound Facial Expressions Using Multi Scale Residual Network	Salman Mohammed Jiddah, Burcu Kuter, Kamil Yutkan
Enhanced Emotion Recognition from EEG Signals with ResConv U-Net Architecture	Nasim Ahmadzadeh Nobari Azar
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
Harnessing LLMs for IoT Malware Detection: A Comparative Analysis of BERT and GPT-2	Marwan Omar, Hewa Zangana, Jamal Al Karaki, Derek Mohammed
Periodicity Analysis of Most Time Series Methods: A Review	Muneera Yousif, Musab Ahmed Mohammed , Mete CELİK , Asmaa E. Hamdoon, Riham Jassim, Noor M. Abdullah
Türkçe el yazısı karakterler ile veri seti oluşturulması	Alperen UZUN, Mehmet ÖZTÜRK
An approach to detection of dental restorations on panoramic radiographs	Kevser Keşkekçi, Gül Şahin, Fuat Türk, Murat Lüy, Fevzi Acar
Metin Sınıflandırmaya Karşı Kriptografi Yöntemlerinin Kullanılması	Ahmet Emre ERGÜN, Özgü CAN
Filter-Based Image Enhancement Effects on CNN-Based Decision Support System for Cervical Cancer Diagnosis	Ferat Efil, Zafer Cömert

ISMSIT 2024 Accepted Papers	
Title	Author(s)
Empowering Critical Thinking through AI: The PAIR Models Impact on Higher Education Excellence	Héctor Ramón Rodríguez Maya, Ana Beatriz Salas Valdes
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
Identifying Degradation in Voice over Internet Protocol (VoIP) Communications through Audio-Based Transformer Models	Buse Cetin, H.Hakan Kilinc, Hasan Kilimci, Zeynep Hilal Kilimci
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
Retweet Prediction on Earthquake Tweets	Sevginur İnce, Ebru Akçapınar Sezer
Security of AI-Powered Systems: Threat Intelligence on the Edge	Radka Nacheva, Otmane Azeroual
Literature Review on Constraint Satisfaction Problems Solving	Edlira Qefalija, Halil Snopçe, Artan Dermaku
Fake Voice Detection: A Hybrid CNN-LSTM Based Deep Learning Approach	Saadin Oyucu, Derya Betül Ünsal Çelimli, Ahmet Aksöz
Design and Implementation a Smart ICU Based on Cloud Computing	Mohammed Abdulmahdi Mohammedali, Laith A. AL-anzy, Ghadeer H. Eskandar
Cloud Computing Based Smart Irrigation System for Big Farms	Haider Kamel, Laith A. AL-anzy
A Highly Secured Cyber Security Threat Detection and Prevention System for IoT Using He-DNN	Pragati Rana, Patil BP
Application of Neural Networks for Network Traffic Monitoring and Analysis	Oleksandr Kushnerov, Pierre Murr, Serhii Herasymov, Stanislav Milevskyi, Marharyta Melnyk, Sergii Golovashych
Application Level Fault Diagnosis in Organic Computing Using Stress Hormone Propagation	Sabikun Nahar, Utkarsh Raj, Simon Meckel, Roman Obermaisser
Optimizing Wireless Sensor Network Lifespan through Weighted Fitness Function in K-Means Clustering and Cluster Head Selection	Fatima Harrouz, Mohammed Omari, Mohammed Kaddi
Personalized training on risk management in personal data sharing and information protection in the context of building specific competencies	Miroslav Dechev, Mariyana Nikolova
Wildfire detection based on IoT technology	Daniel Freira, Carlos Coutinho
Hybrid Multiscale Residual Features For Network Anomaly Detection	Salman Mohammed Jiddah, Mohammed Muftah Abubaera, Salem Msaoud Adrugi, Ahmed Mohammed Omar Aesheebah
Management Models for Wireless Communication Channel Interference Monitoring	Serhii Pohasii, Serhii Holdobin, Natalia Brynza, Olga Vilkhivska, Oleksandr Bilotserkivskyi, Borys Samorodov
Solving Non-Linear Systems of Equations by Using a New Line Search Algorithm	Doaa Hamzah Allawi, Mushtak A.K. Shiker
A New C. G. Technique to Solve Non-Linear Systems of Equations	Doaa Hamzah Allawi, Mushtak A.K. Shiker
Unit Extended Exponential Distribution with an Application to Engineering Datasets	Hazim Kalt, Jamal Obeed, Ayat Sagheer
Alpha logarithm-Rayleigh distribution with application	Layla Mohsin, Hazim Kalt
Stochastic Single Server Scheduling Problem	Emine Akyol Özer, Tuğba Saraç
Real Time Parking Space Detection System Using A Pixel-Based Processing Technique	Berkay Sener, Serife Esra Dincer
3D Convolution and Adaptive Patch-Size Based Random Patches Network for Hyperspectral Image Classification	Taner İnce, Tuğcan Dündar
Predicting Transfer Passenger Numbers in Urban Rail Systems with Time Series	Taha Yüksel
Improving laser optical properties with layer coating Nd: YAG laser model	Hasan Jasim, Basim Farhan
Computation of Robust Stability Regions for TimeDelayed DC Motor Speed Control System	İbrahim Kuzu, Saffet Ayasun

ISMSIT 2024 Accepted Papers	
Title	Author(s)
Applied Aspects of Polyharmonic Functions for Security and Reliability of Data Transmission	Oleksandr Laptiev, Andrii Sobchuk, Anton Ryzhov, Oleh Perehuda, Iryna Tsygansvska, Serhii Kopytko
Multi-Contour Security System Constructing Concept	Serhii Yevseiev, Serhii Toliupa, Serhii Pohasii, Stanislav Milevskyi, Vladyslav Sokol, Herman Zviertsev
Authentication and Authorization Method Based on McEliece Crypto-Code Construction	Roman Korolov, Stanislav Milevskyi, Leonid Shcherbyna, Yana Lutsenko, Sergii Dunaiev, Vadym Stetsenko
Place-Belongingness Through Digital Language Learning and Placemaking	Hesam Mohseni
Unveiling Communication Patterns: Helpful Visualizations of Communication in Online Video Conferences	Thomas Spielhofer, Renate Motschnig
VR-Based Promotion and Training of Electric Vehicles	Hamza Eren KOÇ, Muhammet BAŞARSLAN, Hikmet CANLI
Study of Recurring Revenue Growth for IT Infrastructure Providers	Veera Venkata Satyanarayana Kantipudi, Seetha Raman, K Maddulety
Examining the Role of Using Multiple Modalities for Teaching Large CS2 Classes	Sofia Saleem
Information Technology Driven Innovations in Healthcare: Mapping The Research Trends By Co-Word Analysis	Mustafa Volkan GÜNGÖR, Dilek ÖZDEMİR GÜNGÖR, Çiğdem TARHAN
SWOT analysis of online examination of engineering students and strategies to improve its quality	Fatme Rashidova
Efficient Key Management in Lightweight Cryptography: A New Hashing-Based Approach	Haider Al-Mahmood, Saad Alsaad
Cloud-based Documental Management System: A Bibliometric Review Analysis	Duarte Silva, Carlos Coutinho
'Do I Belong Here, There, or Elsewhere?': The Materiality and Intangible Benefits of Technology in Digital Nomads' Place-Belongingness	Hesam Mohseni, Marcos De Almeida, Daniel Schneider, Antonio Correia
The Bushy Sets in Cluster Topological Proximity Space	L. A. Al. Swidi, Raghad Almohammed, Maryam Khenyab Kareem
Various Fixed Points Results of Cyclic Mappings Satisfying Integral Contraction Conditions	Abbas Karim Nahi, Salwa Salman Abed
Using Sturms Technique to Find the Polynomials Real Roots	Hussain Ali Mueen, Mushtak A.K. Shiker
On β^* -I-open Sets and e^* -I-open Sets in Ideal Topological Spaces	Ali Shaker Mahmoud, , S.R Yassen
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
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
Space Life Support Engineering and Biomechatronics towards the Moon and Mars: A Scoping Review	Jose Cornejo, Mariela Vargas, Milton V. Rivera, Ricardo Palomares, Ricardo Barreto, Jorge Cornejo
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
Mechatronics Fundamentals and Locomotion Analysis of Hybrid Mobile Robot: Rocker-Bogie Wheeled System and SCARA Manipulator	Juan Alva, Renzo Meza, Ricardo Palomares, Jose Cornejo
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
Machine Learning and Vision Transformer for CT Scanners' Calibration and Quality Assessment	Khanh Quoc, Majeed Soufian, Amani Alsaeedi, Jon Fulford, Hairil Razak
Antecedents of PMO effectiveness in Technology projects in the Age of AI	Aditya Basawn, Seetha Raman
The Use of Exergame in a Multiplayer-Supported Virtual Clinic	Tuğşad Öcal, Muhammet Baykara, İsmail Uzun
An algorithm to support the review process of a scientific research project proposal using ChatGPT	Aldeniz Rashidov

ISMSIT 2024 Accepted Papers	
Title	Author(s)
Urban Issue Reporting Applications Towards Government 2.0	Joao Soares, Carlos Coutinho
Performance Analysis of Three-Phase Grid- Connected Inverter with Model Predictive Control Method in PIL Test Environment	Ekrem DEMIR, Ozan GULBUDAK
A Novel Modulation Technique for Half Bridge Multilevel Inverter	Sadık Özdemir, Zafer Ortatepe
The Design and Prototype Production of a Low-Power Voltage Sensor with a Resistive Divider	Hidir Duzkaya, Suleyman Sungur TEZCAN, Ahmet OCAK, Orkun KILIÇ
Examination of PV panels’ performance exposed to environmental stress with electroluminescence tests	Ertuğrul Adıgüzel
Regenerative Energy Control on a Batteryless Crab Fishing Vessel with SG/M	Orçun Şenler, Murat Mustafa Savrun
Assessment of Demand Side Management Performance of DC Electric Springs in DC Microgrid Systems	Kenan Ayten, Murat Mustafa Savrun
Hosting Capacity for EV Charging in Distribution Networks	Halil Hilmi Namli, Gokturk Poyrazoglu, Ismail Bagci
Feasibility Analysis of Wind-Battery Energy Storage Hybrid Systems in Türkiye	Busra Eyupoglu, Kübra Nur Akpınar
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
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
Analysis Of Wireless Networks Transmission For Cathodic Protection In Petroleum Industry	Muhammet Tahir Guneser, Noor Qasim Atiyah Alsaedi
Efficient PV Monitoring with LoRaWAN: Integrating IoT and Smartphone Application for Cost-Effective Solutions	Bilal Hashim Hameed, Sefer Kurnaz , Saadaldeen Rashid Ahmed
Optimizing Hybrid Energy Systems: Employing Smart Monitoring Networks with IoT Integration	Anmar Yahya Taher, Sefer Kurnaz , Saadaldeen Rashid Ahmed
Analysis of Distribution Transformers at Various Insulating Conditions by Frequency Method	Miroslav Gutten, Daniel Korenciak, Jan Kanuch
Acoustic Emission Analysis of Dry Distribution Transformers	Daniel Korenciak, Miroslav Gutten, Jan Kanuch
PIFD Adaptation Mechanism on MRAC with Input Time Delay Plant	Ebubekir Kökçam, Nusret TAN
Zoning and Rezoning Applications in Digital Buildings	Dimitar Ivanov Mankov, Docho Tsankov Tsankov
Bio-inspired Design and Additive Manufacturing Techniques for Aquatic Robot Development based on the Locomotion of the Istiophorus (Sailfish)	Bernabé Oscco, Victor Cuyotupac, Jose Mayorga , Robert Castro, Ricardo Palomares, Jose Cornejo
Thermodynamic and Thermoeconomic Optimization of Combined Cycle Gas Turbine Power Plants for Enhanced Efficiency	Hussein Majeed Mughir Hussein, Sahar Ali Akbar Shakir İbrahim
Backstepping Controller with Neural Network Supervisory for a Magnetic Levitation System	Mustafa Kocaman, Fatih Adiguzel
Optimal FOPID and RPIDD2 Controller Design Using Meta-Heuristic Optimization for AVR System	Emre Hasan Dursun
Single-Link Rotary Flexible Joint Control Using S-curve Motion Profile	Ufuk GUNER
Study of Processing Modes in CNC Machining Centers	Marin Zhilevski, Viktoriya Kolibanekova, Mikho Mikhov, Nikolay Yordanov

ISMSIT 2024
Technical Program

November 7, 2024				
Time (GMT+3)	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		
	11:30 am - 12:00 pm	Keynote Speaker Session 2.1. (Virtual ROOM2) Assoc. Prof. Dr. Korhan Cengiz, University of Fujairah, United Arab Emirates		
	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				
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

November 9, 2024			
Time (GMT+3)	9:30 am - 11:30 am	Session 6.1. (Virtual ROOM2) Chair: E. Yasar	Session 6.2. (In-person ROOM1) Chair: T. Ozseven
	11:30 am - 12:00 pm	Keynote Speaker Session 7.1. (In-person ROOM1) Dr. Ali Berkol, Aselsan-Bites, Türkiye	
	1:00 pm - 3:00 pm	Session 8.1. (Virtual ROOM2) Chair: E. Yasar	Session 8.2. (In-person ROOM1) Chair: T. Ozseven
	3:00 pm - 3:30 pm	Coffee Break	
	3:30 pm - 5:30 pm	Session 9.1. (Virtual ROOM2) Chair: E. Yasar	

ISMSIT 2024 Technical Program

Session 1.1. (Virtual ROOM1)	
Chair: Turgut Ozseven	Date: November 7, 2024
	Time (GMT+3): 9:00 am - 11:00 am
Paper	Author (s)
77 - A Modern Approach of Solution of Assignment Problems	Ali H. Abdullah, Mushtak A.K. Shiker, Zahraa K. Hashim
70 - Various Fixed Points Results of Cyclic Mappings Satisfying Integral Contraction Conditions	Abbas Karim Nahi, Salwa Salman Abed
243 - Hybrid Multiscale Residual Features For Network Anomaly Detection	Salman Mohammed Jiddah , Mohammed Muftah Abubaera, Salem Msaoud Adrugi, Ahmed Mohammed Omar Aesheebah
244 - Improved Automatic Stress Detection Through Compound Facial Expressions Using Multi Scale Residual Network	Salman Mohammed Jiddah , Burcu Kuter, Kamil Yutkan
299 - Security of AI-Powered Systems: Threat Intelligence on the Edge	Radka Nacheva , Otmane Azeroual
288 - Identifying Degradation in Voice over Internet Protocol (VoIP) Communications through Audio-Based Transformer Models	Buse Cetin, H.Hakan Kilinc , Hasan Kilimci, Zeynep Hilal Kilimci
195 - Impact of Generative AI in Revolutionizing Education	Shayan Aamir , 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	Fatme Rashidova

Session 1.2. (Virtual ROOM2)	
Chair: Ebubekir Yasar	Date: November 7, 2024
	Time (GMT+3): 9:00 am - 11:00 am
Paper	Author (s)
233 - Predicting Transfer Passenger Numbers in Urban Rail Systems with Time Series	Taha Yüksel
214 - Assessment of Demand Side Management Performance of DC Electric Springs in DC Microgrid Systems	Kenan Ayten , Murat Mustafa Savrun
202 - VR-Based Promotion and Training of Electric Vehicles	Hamza Eren Koç , Muhammet Başarslan, Hikmet Canlı
303 - An algorithm to support the review process of a scientific research project proposal using ChatGPT	Aldeniz Rashidov
114 - Multi-Contour Security System Constructing Concept	Serhii Yevseiev, Serhii Toliupa, Serhii Pohasii, Stanislav Milevskyi , Vladyslav Sokol, Herman Zviertsev
162 - Leveraging IoT Data for Real-Time Business Decision-Making	Muthana Abdulwhab , Jumaa Gareed, Ali J. Al- Shimary, Hussein Basim Furaijl, 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	Sinan Ghanem Mikhwir Albadwi

Session 1.3. (Virtual ROOM3)	
Chair: Oguzhan Pektezel	Date: November 7, 2024
	Time (GMT+3): 9:00 am - 11:00 am
Paper	Author (s)
163 - 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, NoorUlhuda S. Ahmed, Saadaldeen Rashid Ahmed, Mohammed AlAqad, Sameer Algburi
298 - Analysis Of Wireless Networks Transmission For Cathodic Protection In Petroleum Industry	Muhammet Tahir Guneser , Noor Qasim Atiyah Alsaedi
162 - Leveraging IoT Data for Real-Time Business Decision-Making	Muthana Abdulwhab , Jumaa Gareed, Ali J. Al- Shimary, Hussein Basim Furaijl, 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	Sinan Ghanem Mikhwir Albadwi
174 - 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
203 - Study of Recurring Revenue Growth for IT Infrastructure Providers	Veera Venkata Satyanarayana Kantipudi , Seetha Raman, K Maddulety
127 - Authentication and Authorization Method Based on McEliece Crypto-Code Construction	Roman Korolov, Stanislav Milevskyi, Leonid Shcherbyna, Yana Lutsenko, Sergii Dunaiev , Vadym Stetsenko
312 - Study of Processing Modes in CNC Machining Centers	Marin Zhilevski , Viktoriya Kolibaneikova, 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)	Date: November 7, 2024
Chair: Turgut Ozseven	Time (GMT+3): 1:00 pm - 3:00 pm
Paper	Author (s)
85 - Recommendation System Based on Opinion Mining: A Survey	Amenah Nahedh AbdulAmeer , Mohsin Hasan Hussein
89 - On β^* -I-open Sets and e^* -I-open Sets in Ideal Topological Spaces	Ali Shaker Mahmoud, S.R Yassen
276 - Efficient Key Management in Lightweight Cryptography: A New Hashing-Based Approach	Haider Al-Mahmood, Saad Alsaad
308 - Fake Voice Detection: A Hybrid CNN-LSTM Based Deep Learning Approach	Saadin Oyucu , Derya Betül Ünsal Çelimli, Ahmet Aksöz
91 - Applied Aspects of Polyharmonic Functions for Security and Reliability of Data Transmission	Oleksandr Laptiev , Andrii Sobchuk, Anton Ryzhov, Oleh Perehuda, Iryna Tsygansvska, Serhii Kopytko
289 - Cloud-based Documental Management System: A Bibliometric Review Analysis	Duarte Silva , Carlos Coutinho
179 - 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
145 - Space Life Support Engineering and Biomechatronics towards the Moon and Mars: A Scoping Review	Jose Cornejo, Mariela Vargas, Milton V. Rivera, Ricardo Palomares , Ricardo Barreto, Jorge Cornejo
68 - The Bushy Sets in Cluster Topological Proximity Space	L. A. Al. Swidi, Raghad Almohammed , Maryam Khenyab Kareem
112 - Enhancing Human Computer Interaction (HCI) Through Machine Learning Applications	Fahad Abdulateef Yaseen , Mohammad Shihab Ahmed, Mokhalad Eesee Khudhur
246 - Enhanced Emotion Recognition from EEG Signals with ResConv U-Net Architecture	Nasim Ahmadzadeh Nobari Azar

Session 3.2. (Virtual ROOM2)		Date: November 7, 2024
Chair: Ebubekir Yasar		Time (GMT+3): 1:00 pm - 3:00 pm
Paper	Author (s)	
115 - Application of Neural Networks for Network Traffic Monitoring and Analysis	Oleksandr Kushnerov , Pierre Murr, Serhii Herasymov, Stanislav Milevskiy, Marharyta Melnyk, Sergii Golovashych	
251 - Harnessing LLMs for IoT Malware Detection: A Comparative Analysis of BERT and GPT-2	Marwan Omar , Hewa Zangana, Jamal Al Karaki, Derek Mohammed	
247 - 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	
180 - Mechatronics Fundamentals and Locomotion Analysis of Hybrid Mobile Robot: Rocker-Bogie Wheeled System and SCARA Manipulator	Juan Alva , Renzo Meza, Ricardo Palomares, Jose Cornejo	
194 - Place-Belongingness Through Digital Language Learning and Placemaking	Hesam Mohseni	
131 - Artificial Intelligence Against Climate Change Challenges: From Research to Action Towards a More Sustainable Future	Ana Todorova , Irina Kostadinova, Diana Antonova, Svilena Ruskova	
307 - Urban Issue Reporting Applications Towards Government 2.0	Joao Soares , Carlos Coutinho	
144 - Bio-inspired Design and Additive Manufacturing Techniques for Aquatic Robot Development based on the Locomotion of the Istiophorus (Sailfish)	Bernabé Oscoco , Victor Cuyotupac, Jose Mayorga , Robert Castro, Ricardo Palomares, Jose Cornejo	
133 - Zoning and Rezoning Applications in Digital Buildings	Dimitar Ivanov Mankov , Docho Tsankov Tsankov	
‘304 - Do I Belong Here, There, or Elsewhere?': The Materiality and Intangible Benefits of Technology in Digital Nomads' Place-Belongingness	Hesam Mohseni , 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	Fatima Harrouz , Mohammed Omari, Mohammed Kaddi	

Session 4.1. (Virtual ROOM1)	
Chair: Turgut Ozseven	
Date: November 7, 2024	
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	Ali Abdul-hussian Hassan , 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 Razaaq Saeid, Lamees K. Alzaki
161 - AI-Based Predictive Analytics for Financial Risk Management	Mahmood Alsaadi , Mohammed Thakir ALmashhadany, Ahmed Sadoon Obaed, Hussein Basim Furajl, Siham Kamil, Saadaldeen Rashid Ahmed
76 - Using Sturms Technique to Find the Polynomials Real Roots	Hussain Ali Mueen , Mushtak A.K. Shiker
75 - Finding the Best Hamiltonian Cycle as a Solution to Applications of Maximizing the TSP	Hussein A. H. Al-Saeedi , Mushtak A.K. Shiker
158 - Thermodynamic and Thermo-economic Optimization of Combined Cycle Gas Turbine Power Plants for Enhanced Efficiency	Hussein Majeed Mughir Hussein , Sahar Ali Akbar Shakir Ibrahim
83 - Design and Implementation a Smart ICU Based on Cloud Computing	Mohammed Abdulmahdi Mohammedali , Laith A. AL-anzy, Ghadeer H. Eskandar
69 - 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

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

Session 5.1. (Virtual ROOM1)	
Chair: Turgut Özseven	
Date: November 8, 2024	
Time (GMT+3): 09:30 am - 12:00 pm	
Paper	Author (s)
198 - Unveiling Communication Patterns: Helpful Visualizations of Communication in Online Video Conferences	Thomas Spielhofer , Renate Motschnig
302 - Literature Review on Constraint Satisfaction Problems Solving	Edlira Qefalija , Halil Snopçe, Artan Dermaku
267 - Türkçe El Yazısı Karakterler ile Veri Seti Oluşturulması	Alperen Uzun , Mehmet Öztürk
200 - Optimal FOPID and RPIDD2 Controller Design Using Meta-Heuristic Optimization for AVR System	Emre Hasan Dursun
281 - The Use of Exergame in a Multiplayer-Supported Virtual Clinic	Tuğşad Öcal , Muhammet Baykara, İsmail Uzun
279 - 3D Convolution and Adaptive Patch-Size Based Random Patches Network for Hyperspectral Image Classification	Taner İnce, Tuğcan Dündar
113 - Analysis of The Software Security Protection	Andrii Tkachov , 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	Ekrem Demir , Ozan Gulbudak
221 - Stochastic Single Server Scheduling Problem	Emine Akyol Özer , 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	Asia Kamal Mustfa , SK Abdulateef, Qabas Amer Hameed, M.A. Ahmed, ZT Al-Qaysi
222 - SWOT Analysis of Open-Source Language Models	Zeynep Örpek , Büşra Tural, Zeynep Destan
212 - Performance Evaluation and Comparison of Machine Learning Algorithms in Classification of CDC Diabetes Health Indicators Dataset by WEKA	Kezban Alpan , Bardia Arman, Kamil Dimililer
178 - Effect of Sleep EEG, EOG, ECG and SPO2 Signals on Sleep Apnea Classification	Evrin Yıldız , Cengiz Tepe, Nevra Güllü Arslan
97 - Cybersecurity of SMART Technologies Using Deep Learning Methods	Oleksandr Milov , 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	Rekha Pillai , Manar AL-Khatib
197 - Application Level Fault Diagnosis in Organic Computing Using Stress Hormone Propagation	Sabikun Nahar , Utkarsh Raj, Simon Meckel, Roman Obermaisser
67 - Effect of Including Attention Mechanisms on (yolov7) Ability to Recognize Gymnastics Motions	Ahmed S. Abdullah , 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, Kübra Nur Akpınar
266 - Periodicity Analysis of Most Time Series Methods: A Review	Muneera Yousif , 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	Aditya Basawn , Seetha Raman
231 - Information Technology Driven Innovations in Healthcare: Mapping The Research Trends By Co-Word Analysis	Mustafa Volkan Güngör , 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	Kerim Kaplan , Mohammad Hassan Hashemi
183 - Application of TPE-Random Forest in Microwave Oven Fault Diagnosis Based on GAN and ADASYN Algorithm	Jianqi Liu , Bi Zeng, Feng Li, Huiting Hu
215 - Machine Learning and Vision Transformer for CT Scanners' Calibration and Quality Assessment	Khanh Man , Majeed Soufian, Amani Alsaedi, Jon Fulford, Hairil Razak
142 - Alpha logarithm-Rayleigh distribution with application	Layla Mohsin , Hazim Kalt
234 - Personalized training on risk management in personal data sharing and information protection in the context of building specific competencies	Miroslav Dechev , 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, Gabriel Kanev , Tsvetelina Kaneva
81 - Solving Ordinary Differential Equations with Variable Coefficients by Complex AI-Zughair Transform	Baneen Sadeq Mohammed Ali, Walaa Hussein Ahmed , Mohamed Al-Sultani
271 - Metin Sınıflandırmaya Karşı Kriptografi Yöntemlerinin Kullanılması	Ahmet Emre Ergün , Özgü Can
134 - Examination of PV panels' performance exposed to environmental stress with electroluminescence tests	Ertuğrul Adıgüzel
272 - Filter-Based Image Enhancement Effects on CNN-Based Decision Support System for Cervical Cancer Diagnosis	Ferat Efil , Zafer Cömert
278 - Single-Link Rotary Flexible Joint Control Using S-curve Motion Profile	Ufuk Guner
148 - Araştırma Alanlarının Anlamsal Benzerlikleri Kullanılarak Bilimsel İş Birliği Ağlarının Oluşturulması	Yusuf Yargı Baydilli

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	Miroslav Gutten , Daniel Korenciak, Jan Kanuch
310 - Acoustic Emission Analysis of Dry Distribution Transformers	Daniel Korenciak , Miroslav Gutten, Jan Kanuch
100 - PIFD Adaptation Mechanism on MRAC with Input Time Delay Plant	Ebubekir Kökçam , Nusret Tan
297 - Retweet Prediction on Earthquake Tweets	Sevginur İnce , 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, Burak Atasoy , Saffet Ayasun
90 - Bi-Clustering Anomaly Detection: A Dual-Stage Clustering Approach Using Bayesian Gaussian Mixture Models (Bi-BGMM)	Ezgi Bingöl , Gizem Bekar
235 - 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
157 - Cryptocurrency Prediction Using Deep Recurrent Neural Networks	Shayan Doroodian, Emre Özbilge , Mustafa Mulla

<p style="text-align: center;">Keynote Speaker Session 7.1. (In-person ROOM1) Dr. Ali Berkol, Aselsan-Bites, Türkiye</p>		
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, Raymond Ghandour , Mohammad Salman
93 - Cloud Computing Based Smart Irrigation System for Big Farms	Haider Kamel , Laith A. AL-anzy
274 - Wildfire detection based on IoT technology	Daniel Freira , Carlos Coutinho
290 - 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
159 - Backstepping Controller with Neural Network Supervisory for a Magnetic Levitation System	Mustafa Kocaman , Fatih Adiguzel
245 - Real Time Parking Space Detection System Using A Pixel-Based Processing Technique	Berkay Sener, Serife Esra Dincer
146 - 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
106 - A Novel Modulation Technique for Half Bridge Multilevel Inverter	Sadık Özdemir , Zafer Ortatepe
199 - 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
295 - Management Models for Wireless Communication Channel Interference Monitoring	Serhii Pohasii , 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	Kevser Keşkekçi , Gül Şahin, Fuat Türk, Murat Lüy, Fevzi Acar
242 - Computation of Robust Stability Regions for TimeDelayed DC Motor Speed Control System	İbrahim Kuzu , Saffet Ayasun
181 - Measuring Engagement in a Video Conference	Jonathan Cyriax Brast , Mauricio Altamirano Silva, Eicke Godehardt, Jörg Schäfer
210 - Examining the Role of Using Multiple Modalities for Teaching Large CS2 Classes	Sofia Saleem
177 - Regenerative Energy Control on a Batteryless Crab Fishing Vessel with SG/M	Orçun Şenler, Murat Mustafa Savrun
110 - The Design and Prototype Production of a Low-Power Voltage Sensor with a Resistive Divider	Hidir Duzkaya, Suleyman Sungur Tezcan , Ahmet Ocak, Orkun Kılıç
92 - Evaluation of Machine and Deep Learning Methods for Fraud Detection	Can Akkaya , Dionysis Goularas
182 - Robust Automatic Detection of Hip Prostheses in X-ray Images: A Method Based on Edge Detection and Circle Fitting	Yahia Adwan , Mehmet Öztürk
227 - Hosting Capacity for EV Charging in Distribution Networks	Halil Hilmi Namli , 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	Hasan Jasim, Basim Farhan
111 - Unit Extended Exponential Distribution with an Application to Engineering Datasets	Hazim Kalt, Jamal Obeed, Ayat Sagheer
108 - New Version Conjugate Gradient Method for Image Impulse Noise Removals	Basim A. Hassan, Hisham M. Khudhur, Ayman W. Jasim
109 - Effect Conjugate Gradient Method for Solving Nonlinear Optimization Problems	Basim A. Hassan, Ahmed S. Ahmed
95 - A Highly Secured Cyber Security Threat Detection and Prevention System for IoT Using He-DNN	Pragati Rana, Patil BP
277 - Empowering Critical Thinking through AI: The PAIR Models Impact on Higher Education Excellence	Héctor Ramón Rodríguez Maya, Ana Beatriz Salas Valdes
286 - 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
1 - Optimizing Energy Efficiency in Smart Buildings through Intelligent HVAC Control Systems	Korhan Cengiz
2 - Optimizing Power Consumption in Data Centers through Intelligent Load Balancing Algorithms	Korhan Cengiz