



ISMSIT
2025

9th International Symposium on Multidisciplinary Studies and Innovative Technologies

SYMPOSIUM INFORMATION

Committees
Symposium Statistics

Technical Program

Invited Speakers
Accepted Papers



IEEE
Türkiye Section



www.ismsitconf.org
November 14-16, 2025, Ankara, Türkiye

Welcome to ISMSIT2025


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 ISMSIT2025 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 2025 is technically sponsored by  .

Important Dates

Deadline for Submission	: September 15, 2025
Deadline for Notification	: October 15, 2025
Deadline for Registration	: October 25, 2025
Deadline for Camera-Ready Papers	: November 1, 2025

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



Keynote/Invited Speakers**Prof. Dr. Utku Kose**

Süleyman Demirel University, Türkiye
IEEE Senior Member | ACM Professional Member

Title: "Advancing Healthcare via Generative Artificial Intelligence"

Short-Bio:

Dr. Utku Kose received the B.S. degree in 2008 from computer education of Gazi University, Turkey as a faculty valedictorian. He received M.S. degree in 2010 from Afyon Kocatepe University, Turkey in the field of computer and D.S. / Ph. D. degree in 2017 from Selcuk University, Turkey in the field of computer engineering. Between 2009 and 2011, he has worked as a Research Assistant in Afyon Kocatepe University. Following, he has also worked as a Lecturer and Vocational School - Vice Director in Afyon Kocatepe University between 2011 and 2012, as a Lecturer and Research Center Director in Usak University between 2012 and 2017, Assistant Professor in Suleyman Demirel University between 2017 and 2019, and as an Associate Professor in Suleyman Demirel University between 2019 and 2024. Currently, he is a Full Professor in Suleyman Demirel University, Turkey. Kose also gave lectures at other higher education institutions such as Gazi University and Istanbul Arel University. He also worked as a Visiting Researcher at the University of North Dakota, USA (between 2023 and 2024) and holds the Honorary Professor of Artificial Intelligence title at ITM (SLS) Baroda University, India. He has more than 350 publications including articles, authored and edited books, proceedings, and reports. He is also in editorial boards of many scientific journals and serves as one of the editors of the Biomedical and Robotics Healthcare (CRC Press) and Computational Modeling Applications for Existential Risks (Elsevier) book series. His research interests include artificial intelligence, machine ethics, artificial intelligence safety, biomedical applications, optimization, the chaos theory, distance education, e-learning, computer education, and computer science.

**Assoc. Prof. Dr. Murat Karakus**

Ankara University, Türkiye
IEEE Member

Title: "From Intelligence to Resilience: AI-Enabled Blockchain and Programmable Networking Security for Cyber-Physical Systems"

Short-Bio:

Murat Karakuş received his B.Sc. degree in Mathematics from Süleyman Demirel University, Türkiye, in 2009, his M.Sc. degree in Computer Science and Information Systems from the University of Michigan-Flint, USA, in 2013, and his Ph.D. in Computer Science from Purdue School of Science, USA, in 2018.

He currently serves as an Associate Professor and the Head of the Department of Software Engineering at Ankara University Faculty of Engineering.

Dr. Karakuş has authored over 50 peer-reviewed publications and serves as a reviewer for esteemed journals and conferences published by IEEE, ACM, and Elsevier. Additionally, he is an active member of the organizing committees for prominent international conferences such as MeditCom, BalkanCom, BCCA, and BlackSeaCom, where he has also delivered invited talks.

His research interests include next-generation network architectures (Software-Defined Networking - SDN), blockchain technology, natural language processing (NLP), network scalability, quality of service (QoS), and routing. Dr. Karakuş has led and managed several research and industry projects supported by TÜBİTAK and private sector collaborations.

Committees**Symposium Chair**

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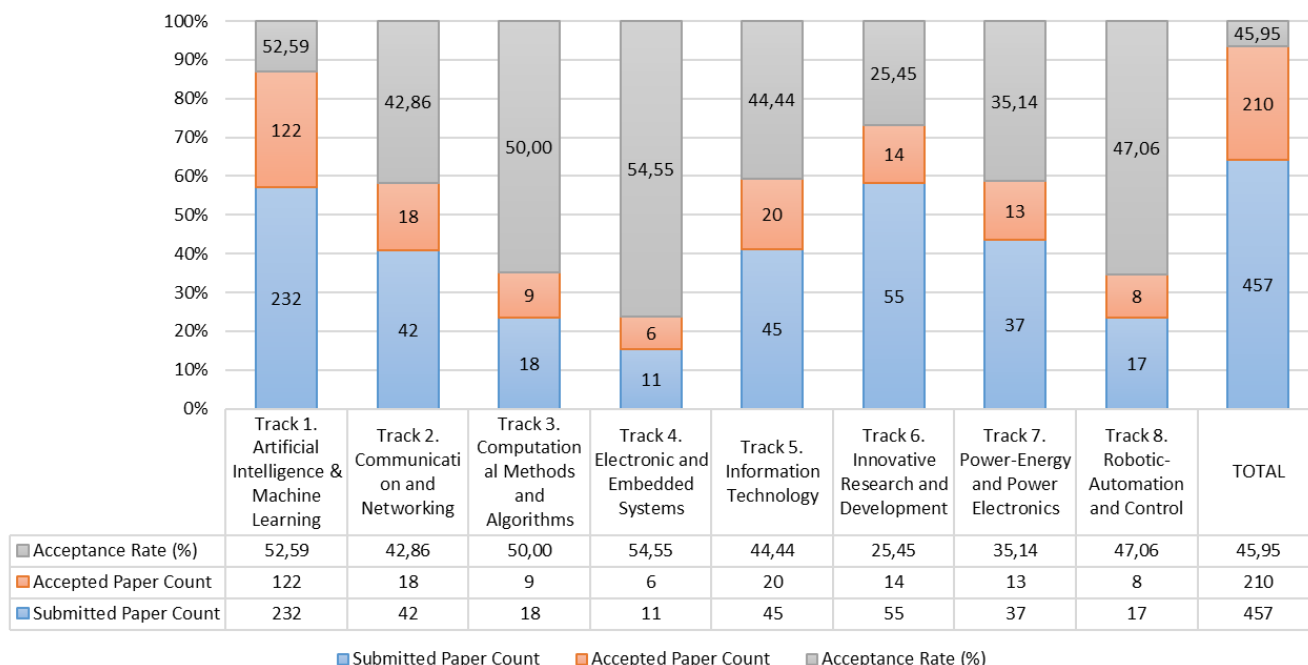
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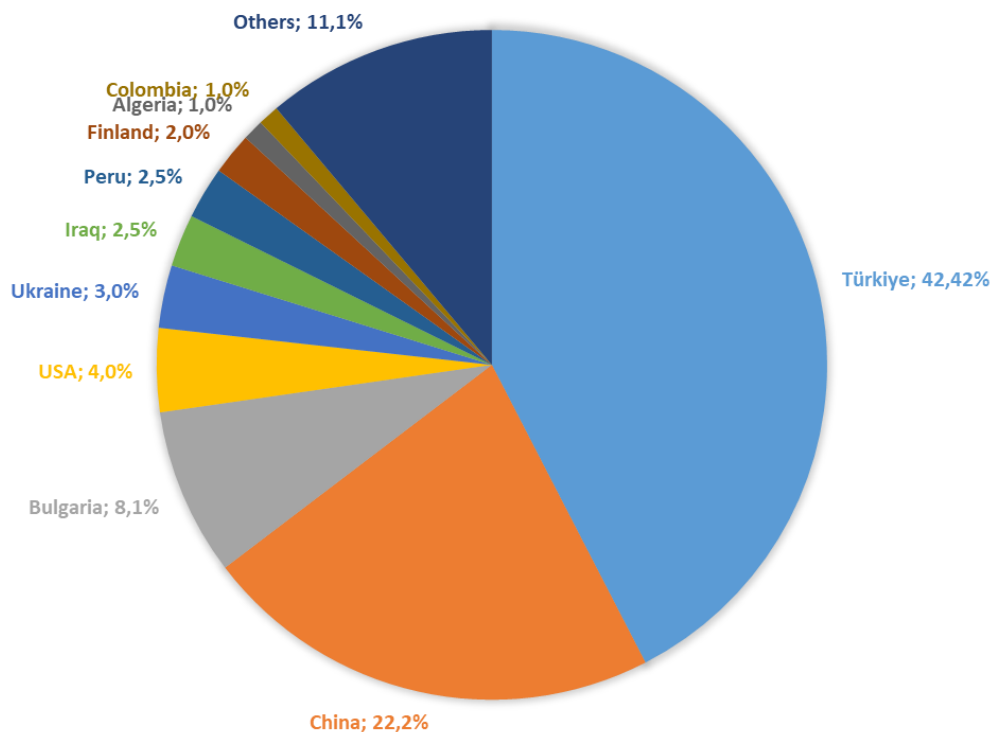
- Paper Process
 - Papers must be prepared at the highest level of quality .
 - Papers have a maximum page limit of 6 pages including references, graphs and figures. If they exceed 6 pages, author must pay extra fee.
 - Since the acceptance rate will be kept below 60%, priority will be given to papers 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

Symposium Statistics

Acceptance Rate (45.95%)



Top 10 Countries by Number of Speakers



Country	Türkiye	China	Bulgaria	USA	Ukraine	Iraq	Peru	Finland	Algeria	Colombia	Others
S. Count	84	44	16	8	6	5	5	4	2	2	22
Rate (%)	42.42%	22.2%	8.1%	4.0%	3.0%	2.5%	2.5%	2.0%	1.0%	1.0%	11.1%

Algeria, Brazil, Bulgaria, China, Colombia, Finland, Germany, Hungary, Indonesia, Iraq, Jordan, Malaysia, Morocco, Palestine State, Panama, Peru, Poland, Saudi Arabia, South Africa, Sri Lanka, Thailand, Türkiye, UAE, UK, Ukraine, USA

ACCEPTED PAPERS		
ID	Title	Author(s)
8	No-Code Application Programming Interface Testing Platform – Atlas	Emre Torun, Ceren Ulus, Talha Eroğlu, Ridvan Gülcü, Cihan Güler, Berat Çetin, Nazlı Yusufoglu, Mehmet Fatih Akay
18	Optimizing Supply Chain Shipping Time Prediction: A Hybrid Approach Using a Modified Marine Predators Algorithm	Resul Özdemir, Murat Taşyürek, Veysel Aslantaş
25	Analysis of Pulse Shapers in Split Hopkinson Pressure Bar Systems and a Novel Latent Space Based Spectral Evaluation Framework	Furkan Kosova, Nuri Durlu
26	Assessment of Photovoltaic Module Degradation Through Neural Network Classification	Nadira Madjoudj, Hichem Hafdaoui, Nasreddine Belhaouas, Fateh Mehareb, Houria Assem, Abdallah Bouabidi
27	Navigating the Dual-Edged Sword of AI in Cybersecurity	Rotimi-Williams Bello, Roseline O. Ogundokun, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk, Daniel Olubummo
28	Comparing Solar Irradiance obtained from WRF and LibRadtran Models	Kamel ABDELADIM, Abdelhak RAZAGUI, Kada BOUCHOUICHA, Amar HADJ ARAB, Smail SEMAOUI, Ismail BENDAAS, Saliha BOULAHCHICHE
29	Real-time Pose Recognition Using Smartphone-Friendly Computer Vision	Omar Hisham Abdelhakam Zaghloul, Yousef Khalil, Hüseyin Fuat Alsan, Kadir Hasoğlu, Taner Arsan
30	Self Balancing Robot with RL Control Using Q-learning, Deep Q Neural Network and DDPG	Qiong Li, Jaweria Asif, Jerry Wu
33	CBAM-Enhanced ResNet18 for Interpretable Binary Classification of Cattle Retinal Health Using Grad-CAM and SHAP Explainability	Roseline Oluwaseun Ogundokun, Rotimi-Williams Bello, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk
34	CRAM-LSTMNet: A Lightweight Spatio-Sequential Deep Learning Architecture for Binary Retinal Health Classification in Cattle	Roseline Oluwaseun Ogundokun, Rotimi-Williams Bello, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk
36	Reduced-Sensors Model Predictive Control for Three-Phase Grid-Connected Inverter using Extrapolation Technique	Ekrem DEMIR, Ozan GULBUDAK
37	Integrating Critical Chain Methodologies with Machine Learning for Optimized Progress Management in Commercial Real Estate Projects	Haokun Guo
38	Research on Autonomous Driving Control Strategies for Rail Transit Trains Based on Intelligent Transportation Systems	Yan Zhang
39	AI-Powered Neural Architecture Search (NAS) for Optimizing Distributed Learning Systems in Intelligent Communication Networks	Shiqi Xu
40	Financial Analytics for Green Supply Chain Optimization: A Machine Learning Approach to Investment Decision Making	Yuanxi Mao
42	High-Precision Gravity and Magnetic Gradient Anomaly Detection for Mineral Exploration and Sustainable Resource Management	Jiayi Liu, Qian Zhong
43	Multi-Agent Adversarial Training for Text-to-Image GANs	Jiabao Shi
44	Constructing a Novel Dataset for Android Bug Prediction	Amany Saies, Samer Zein
47	Improving Environmental Degradation Prediction Using Metaheuristic-Driven Machine Learning Technique	Oluwatayomi Adegboye, Kekeli Feda, Ezgi Deniz
48	Operational Anomaly Detection in Low-Frequency Telecommunications Time Series Using Bayesian Matrix Factorization	Ezgi Bingöl, Gizem Dürgeci Bekar

51	Neural Network Architectures for Enhancing Data Center Intelligence through Deep Learning	Antonio Cortes
52	Impact of artificial intelligence on human resources in the context of Industry 5.0	Sibel Ahmedova, Siyka Demirova, Dzhemal Ali, Yordan Yankov
61	Multi-Client Scenario-Based Reverse Shell Attack Simulation	Malek Malkawi, Yasamin Akrami, Safa Kechaou, Reda Alhajj
62	Industrial, Collaborative, and Mobile Robotics in Aerospace Manufacturing: Technical Review focused on Industry 5.0	Jose Cornejo
67	Autonomous Human Detection Drone for Disaster Response in Flooded Areas	Tharushi Indrakumara, Hirushi Hewaarachchi, Sanduni Somasiri, Piumika Karunanayake
70	Control of Radiant Zone Heaters and Coolers with Adaptive Temperature Setpoint Limitation	Dimitar Mankov, Mihail Mihalev, Docho Tsankov
71	Integrating Artificial Intelligence into Modern Education: Models for Interactive, Multimedia and Personalized Educational Materials	Donika Valcheva , Teodor Kalushkov, Slavena Tihova, Georgi Shipkovenski, Paulina Agova
72	Reinforcement Learning Based Dynamic UAV Positioning System Design	Muzamil Mohammedelkhatim, Ayşe Elif Canbilen
73	Leveraging Big Data and AI for Strategic Decision-Making and Operational Efficiency in Multinational Corporations	Qin Cheng
74	Analyzing Emotion Analysis Technologies to Enhance Personalized Learning in Modern Education System	Wei Jin
75	Grade Prediction Using Transfer Learning Methods on Meningioma Brain Tumor Images	Kaan Gümele, Talha Karahan, Mustafa Umut Etli, Gonca Gül Öndüç, Muhammet Sinan Başarslan
77	Application of digital twin and data visualization technology in manufacturing industry	Ning Zhang
78	Artificial Intelligence-Driven Strategic Risk Forecasting: Integration of Random Forest and GBDT Models with Real-Time Updates	Biaobang Xu
80	Fire Extinguisher Position Detection in Complex Environments based on Deep Learning Model of ResNet-50 and Feature Pyramid Enhancement	Xiaodong Ma
81	Secure and Scalable IoT Data Transmission with Adaptive Protocol Switching	Hasan Tolga Ünal, Özgür Umut Vurgun, Arif Furkan Mendi, Mehmet Akif Nacar
83	Optimising Global Digital Economy Growth Using Advanced Data Transmission Techniques and Real-Time Data Processing	Lufan Chen, Shuangjun Wu
84	AI-Assisted Professional Development for English Teachers: Improving Pedagogical Strategies in Adult Education	Jingyi Han
85	Low-carbon urban travel solutions integrated with IoT sensor networks and intelligent traffic management systems	Shuolei Cao
86	Research on the integration of Internet of Things and artificial intelligence in the construction of green transportation infrastructure: Aiming at optimizing transportation economic and environmental benefits	Ye Zhu
88	Adaptive Operation Planning and Intelligent Decision-Making System For Lunar Soil Drilling Based on Reinforcement Learning	Rui Qiu, Guangcheng Ma, Hao Fu
89	The Combination of Miao Culture and Womenswear: Exploring the Consumer's Want based on the Emotional Design	Diya Tang
90	Enhancing Customer Engagement through an AI- Powered Chatbot for Product Presentations and Demonstrations	Gizem Nur Bikir, Osman Kavaf, Serkan Ulucan, Alper Uzanulu, Hasan Tolga Ünal, Müge Ak, Doruk Can Mutlu, Arif Furkan Mendi, Mehmet Akif Nacar
91	Development of Machine Learning-based Revenue Forecasting Models for Electronic Payment and Money Institutions	Zehra Sude Sarı, Cem Bezmen, Hasan Hüseyin Yurdağül, Ceren Ulus, Mehmet Fatih Akay

102	Air Quality Forecast With Deep Learning Models Processing	Marko Bocharov, Teodor Kalushkov, Georgi Shipkovenski
103	ETL Process Optimization and Data Warehouse Construction for the Main Structural Quality Testing Data of Prefabricated Concrete Buildings Based on AAS	Xizhong Zhang, Xinliang Duan
104	Generative AI-Based Digital Narrative Content Generation for Ideological and Political Education and Ethical Risk Prevention	Xiuying Lu
105	Fundus Image-Based Diabetic Retinopathy Detection Using EfficientNetB3 with Web Integration	Sevgi Koyuncu Tunç, Cem Ünsal, Ceyda Girgeç, Ömer Faruk Kılıç
106	Multi-Attribute Clothing Classification Using Modular Deep Learning Models: A ResNet-Centric Architecture	Boran Kuzukıran, Emrah Horkar, Esra Akşit, Sevgi Koyuncu Tunç
107	Transforming Test Automation: AI-Driven Object Locator Extraction for Delphi-Based Applications	Özay Kekulluoglu, Merve Nergiz Afatsun, Mustafa Güçlü Aydınar
108	Neural Network-Based Methods for Cybercrime Detection and Classification	Oleksandr Kushnerov, Iryna Pozovna, Inna Tiutiunyk, Vladyslav Sokol, Oleksandr Lezik, Andrii Volkov
109	Edge Authentication Using a Cryptographic Accumulator	İsmet Kaan Çekiş, Armağan Toros, Volkan Yiğit, İlker Özçelik
112	Optimization Model and Algorithm for Balanced Energy Management in a Cloud Energy Storage System	Oleg Asenov, Georgi Shipkovenski
114	Robotic Arm Control using Model-based Reinforcement Learning and a Three-Dimensional Camera for Object Manipulation	Puttha Jeenkour, Meta Mueangprasert, Montana Rungsiyopas, Nantawatana Weerayuth, Kittipong Boonlong
116	NLP-Driven Perplexity-Based Anomaly Detection in IoT Sensor Data	Ertürk Erdağı
117	Oral Disease Classification Using an Ensemble Of Vision Transformers and Convolutional Neural Networks	Mohamed Lamine Cisse, Melike Sah
119	Comparative Evaluation of Deep Learning Models for Retinal Disease Diagnosis Using Fundus Imaging	Diane Mujawayezua, Ahmet İlhan, Boran Sekeroglu, Serife Kaba, Omid Mirzaei
120	Aspect-Based Sentiment Analysis Using Transformer-Based Zero-Shot Learning for Hotel Reviews	Saed Alqaraleh, Amani Kanti, Hasan ALHUSEIN
121	Adaptive SNR-Based Higher-Order MOCZ for Short-Packet Communications	Tuncay Eren
123	The Effect of Parameters Used in Sla-Type Printers on Part's Mechanical Strength	Volkan Erol, Volkan Korkut, Hürrem Akbıyık
124	AI as a Surrogate for Social and Spatial Connectedness in Isolated and Confined Environments	Hesam Mohseni, Johanna Silvennoinen, António Correia
139	Advances in U-Net and Image Processing: A Path to Early Cancer Diagnosis	Kezban Alpan, Shahedur Rahman, Xuesong Wen, Fikret Dirilenoglu
140	Makine ve Derin Öğrenme Tabanlı Ağ ve Web Saldırı Analizi ile Web Tabanlı IDS Platformu	Sultan Tazefidan, Gulay Cicek
142	A Multimodal CNN Approach to Static Object Recognition Using RGB and Depth Data	Idress Husien
143	PSO-based FOPI controller design for Load Frequency control	Erdal Cokmez
144	AI-Powered Moodle Modules for Advanced E-Learning	Radka Nacheva
145	Designing Customized Wearable Devices: A Novel AI-Based Framework for Product Development	Stefan Resch
147	Performance Analysis of Solar Panels: Effects of Panel Tilt, Surface Cleanliness, and Weather Conditions	Bilge Sıla Çevik, Ceyda Aksoy Tirmıkçı
148	Methodology for developing software projects at high school stage	Mariyana Nikolova, Diana Lazarova

149	Harnessing Artificial Intelligence to Optimize Decision-Making and Social Value Creation in Philanthropy	Mahaning Indrawaty Wijaya, Ali Gunawan, Richard Wiputra, Rindang Widuri
150	Wearable Devices for Monitoring Hormonal Biomarkers: Technological Possibilities and Limitations	Alexandra Lőrincz, Tibor Kovács
152	Comparison of Four Deep Learning Architectures for Flat Sheet Metal Part Identification	Gül Sığındı, Ali Kılıç, Sadettin Kapucu
153	A Sensor-Based System for Cardiac Activity Tracking with Integrated Remote Monitoring Capabilities	Galya Georgieva-Tsaneva, Krasimir Cheshmedzhiev
155	Artificial Intelligence for Risk Prediction of Anemia Disease: Bioinformatics Scoping Review	George Pena, Jose Cornejo, Silvia Rita Rodríguez Alvarez
156	Cardiovascular Disease Detection Using Embedded Software for Signal Preprocessing: A Technical Review	Jorge Luis Hinostrroza, Grisel Mucha, Jose Cornejo, Silvia Rita Rodríguez Alvarez
157	A Comparative Evaluation of Cypress and Katalon for Web Application Test Automation	Sarah Shokeh, Mohammad Khier Sabobeh, Ahmad Baker, Samer Zein
158	Generative Adversarial Networks-Driven Synthetic Patient Data Creation for Risk Identification in Childhood Acute Lymphoblastic Leukemia	Utku Kose, Osman Ceylan, Muhammet Enes Karatas, Ilhan Uysal, Ahmet Koca
159	An Interpretable Machine Learning Approach to Decode Event-Related Oscillations during Motor-Imagery	Reshma Kar, Anshul Kaushal, Sricheta Parui, Gulhan Bizel
160	Forecasting Flight Delays From Operational and Weather Data: A Regression-Based Machine Learning Application	Yağmur DEMİRKAYA, Kerem GENCER, Sude MEYDAN, Murat Okan GÜVEN, İsmail SAVRAN
184	Phishing Detection Framework and Cybersecurity Effectiveness during COVID-19 pandemic: A Technical Review	Diego Alonso Bejarano Granados, Jazmín Vanessa Gadea Paucar, Silvia Rita Rodríguez Alvarez, Jose Cornejo
185	MRI-Based Brain Tumor Classification with Deep Learning Methods	Melike Kılıç, Seyit Metin Köroğlu, Duygu Işık, Savaş İzzetoğlu, Züleyha Akusta Dağdeviren
192	LSTM-AU: Dynamic Thresholding and Explainable Autoencoding for Cyber Defense	Omar Gwassi, Osman Nuri Ucan, Ali Tariq Kalil Al-Khayyat
193	Graph Neural Network Approach for HS6-Level Bilateral Trade Flow Prediction	Hamdi Işiner Köse, Erdem Karaosmanoğlu, Hatice Şeyma Koç, Çağlar Günel, Serdar Arslan
195	Comparative Study of Classical ML and Deep Learning on Small EEG Datasets	İdil Gökçe Demirtaş, Ali Berkol
196	Genetic Algorithm-Based Hyperparameter Optimization for Deep Learning Models	Ali Berkol
197	Uncertainties and Emerging Uses of Human-AI Medical Diagnosis in Collaborative Clinical Practice	António Correia, Benjamim Fonseca, Daniel Schneider, Ramon Chaves, Tommi Kärkkäinen
198	Post-Quantum Authentication and Authorization Using the Niederreiter Code-Theoretic Scheme	Roman Korolov, Volodymyr Hnatushenko, Anna Korchenko, Vladyslav Sokol, Iryna Udovyyk, Tymur Kurtseitov
199	Modern virtual reality technologies for education and training	Slavena Tihova, Emiliyan Petkov
200	Assessment of Software Security Measures	Andrii Tkachov, Andrii Hapon, Illia Bukatych, Mykhailo Zhyhalov, Yehor Kudriavtsev, Stanislav Milevskiy
215	Analysis of Deep Learning Algorithms for Automated Drowning Detection	Ruba Al-Harbi, Lama Al-Mubarak, Layan Al-Tamimi, Nawal Al-Otaibi, Zohra Sbai
216	Design and Implementation of an LLM-Based Controlled Mobile Robot	Layan Nasereddin, Aya Alabed, Maen Amer, Taima Darwish, Belal Sababha
219	A Hybrid CNN-LSTM Framework for State of Charge Estimation of Lithium-ion Batteries	Uzay Gezer, Mehmet Küçük, Ozan Yazar, Serdar Coskun, Fengqi Zhang
224	Obezite Sınıflandırmasında Dikkat Mekanizmalı Tam Bağlantılı Sinir Ağı Kullanımı	İrfan Samur, Hamza Osman İlhan

225	Explainable and Interactive Scientometrics with Large Language Models and Knowledge Graphs	Mirka Saarela, António Correia, Tommi Kärkkäinen
226	Discrimination of the Melanoma and Dysplastic Nevi from the Hyperspectral Dermoscopy Images: A Comparison of Deep Classification Networks	Saadet Aytaç Arpacı, Songül Varlı, Gökhan Bilgin
227	A Resource-Efficient and Deployable Deep Learning Model for Reliable Leaf Classification - LeafNet	Kenan Koçoğlu, Mehmet Sezgin
233	Kübik Hücreli Ku-Band Luneburg Lens Anten Tasarımı	Ekin Ayas, Yasin Genç, Ahmet Akkoç, Çağatay Korkuç, Erkan Afacan, Erdem Yazgan
236	Prisma Guided Systematic Review of Large Language Model (LLM) Applications in Business Intelligence	Ibrahim Yuluçe, Fatih Dagdeviren, Murat Orun, Ismail Duran, Orhan Dagdeviren
237	Blockchain-Enhanced Federated Learning for Credit Card Fraud Detection	Safak Kayikci, Taghi Khoshgoftaar
239	Analysis and Visualization of Energy Consumption Based on Varying Environmental Conditions and Driving Profiles in Different Electric Vehicle Models Using Realistic Route Data	Burhan Dođuhan Leventerler, Mehmet Sezgin
240	HBC-Med: A Hybrid Blockchain Model for Medical Data Management. Balancing Privacy, Interoperability and Decentralization.	Emiliyan Petkov, Stefan Georgiev
243	Enhancing LVRT capability in grid connected PV system using DRL based controller during unbalanced faults	Büşra Özgenç, Yeşim Aysel Baysal Aslanhan, İsmail Hakkı Altaş
246	LLM-Augmented and Fair Machine Learning Framework for University Admission Prediction	Mohammad Abbadi, Yassine Himeur, Shadi Atalla, Dahlia Mansoor, Wathiq Mansoor
247	Deep Learning Based Visual Matching Approach for Reliable Target Localization Under Varying Altitudes and Viewing Angles	Fatih Baykal, Ahmet Saygın Öğülmüş, Burak Yenipınar, Mehmet İrfan Gedik
249	BERT-Driven Analysis of Leadership Communication Patterns in SaaS Platforms	Jiani Gao
251	Big Data Analytics for Optimizing Film Distribution and Social Media Promotion	Bianyi Liang
252	The Application of Big Data Analysis in the Allocation of Higher Education Resources	Na Xu
257	Multimodal Learning Affect Recognition and Adaptive Teaching Strategy Adjustment for Online Education Scenarios	Qiuping Wei, Yuxuan Xie
258	Addressing Class Imbalance in IoT Intrusion Detection with Hybrid Machine Learning Models	Alperen Tezcan, Oğuzhan Karahan
259	Deep Learning Techniques for Analysing Consumer Preferences in Fashion Planning for Emerging Entrepreneurial Projects	Junkai Wang
260	Exploring the Role of Virtual Simulation and AI Technologies in Modernizing Higher Vocational Education Curriculum	Biaobang Xu
261	Big Data Analytics-Based Design Strategy Research for Regional Cultural Brand Packaging	Yixin Gao, Xinchun Zhong, Shengming Guo, Yiyang Wu
262	Design And Implementation of a Spatiotemporal GIS Database for Migrant Population Dynamics Management	Hongkai Cao
268	Big Data-Driven Decision-Making in the Digital Supply Chain of Power Grid Materials	Xin Zhao, Ming Zhao, Jianfeng Wu
269	Characterization of Contact Line Faults in Hybrid AC/DC Grids and Adaptive Protection Strategies	Gang Li, Kai Tang, Weiwei Huang, Yongtao Zhang, Wenchao Li
270	Effects of Virtual and Mixed Reality Environments on Heart Rate Dynamics During High-Intensity Gaming	Penio Lebamovski, Evgeniya Gospodinova, Galya Georgieva-Tsaneva
271	Transformer-Based Novelty Scoring of Research Ideas: An End-to-End NLP Pipeline	Necip Gözüağık
273	Combining Similar Trajectories and XGBoost via Residual Learning for Traffic Flow Forecasting	Ümit Işlak, Elif Yılmaz, İlker Arslan, Tuna Çakar

277	The Potential of AI-Powered Digital Twins in GSM Base Stations	Betul Karaoglan, Cihat Seker, Hasari Celebi, Muhammet Tahir Guneser
285	Data-Driven Simulation of Carbon Tax Policy Effects on Economic and Environmental Outcomes	Chen Ling
286	Genetic Algorithm-Based Tourism Carrying Capacity Optimization Model	Tianyi Wu
288	Cognitive Remodelling and Inclusive Design in VR-AI Hybrid Classrooms for Cross-Cultural Education	Xinchun Zhong, Hanyue Deng, Yixin Gao, Xuan Luo, Yunxia Cui
289	Dynamic Rule Engine for Real-Time Risk Control in Financial Digital Transformation	Linhai Yue, Zhenxing Su, Xingchen Dong
290	A Data-Driven Framework for Personalized Innovation and Entrepreneurship Education on Online Platforms	Junjie You, Haoyun Liang
291	Intelligent Decision-Making in Manufacturing Transformation: A Large Multimodal Approach	Wei Yang, Zhenxing Su, Weinan Zhong
292	An Intelligent Framework for Identifying Carbon Emission Thresholds in the Digital Economy	Jintao Xu, Han Han, Xiaoyu Ge
293	Collaborative Optimization for Green Carbon Reduction in New Power Systems: Multi-Entity Interaction Across Research, Standards, and Industry	Tiantian Chen, Wenqing Li, Lian Liu, Ling Luo, Tao Wang
302	ECFuzz++: An Enhanced Fuzz Testing Framework for Large-Scale System Configuration Vulnerabilities Based on Multimodal AI	Yuanzhe Feng
305	Machine Learning-Based Analysis of Therapeutic Music Patterns for Emotion Recognition	Junyu Li
306	Procedural Generation of Heritage Weaving Methods through Human-AI Collaboration	Yixin Hong, Hongyang Zhang, Xu Zhu
312	Energy Efficiency Maximization with Dynamic Reflection Coefficient based Physical Layer Security: A Symbiotic Approach for Cellular Networks	Muhammed Yusuf ONAY
313	Automatic Anomaly Detection in Panoramic Dental Radiographs Using a YOLOv8-Based Deep Learning Method	Muhammet Tarık Yılmaz, Muhammed Ali Pala
314	Enhancing File Security with an Optimized Auto-Classification Framework Based on Learning Models	Zeliha Açıkgöz, Serdar Arslan, Recep Sinan Arslan
317	Development and validation of coronary heart disease detection model using machine learning.	Mubarak Alrashoud
322	Failure Modes and Effects Analysis of Aircraft Structural Components Using Digital Twin Technology	Song Wang, Qinghua Zhao, Li Ning
323	Ethical, Privacy, and Technical Challenges of AI-Driven Emotion Recognition in Education Settings: An Umbrella Review	Sachini Gunaserka, Mirka Saarela
327	Disease Detection and Classification from Lung Images Using Deep Learning Methods	Ipek Atik, Murat Kaan Akar
328	Prediction of Cyberattacks using Machine Learning in the Financial Sector: Technical Review	Victor Moran Torres, Jack Roman Diaz, Jose Cornejo, Enrique Sanchez Portugal
329	A Prompt Engineering Methodology for Evaluating Large Language Models in Academic Processes	Mihaela Georgieva, Ioannis Patias, Plamen Totev
330	A Code-Based Universal Cryptographic Accumulator	İlker Özçelik
332	Warehouse Automation Simulation involving Robotic Picking System	Slawomir Samolej, Darya Baturyna, Reggie Davidrajuh
333	Development of Machine Learning and Statistics-based Call Count and Average Talk Time Prediction Models	Onur Aygün, Ceren Ulus, Mehmet Fatih Akay
334	A case study on mirror- and twin-based bypass of smartphone face unlock systems	Jose Luis Cabra Lopez, Sebastián Rodríguez Muñoz, Elkin Ladino Ordoñez, Dario Alejandro Segura Torres

339	Using Convolutional Neural Networks and Multi Layer Preceptron in Arabic Handwritten Digit Recognition	Ulaş Akbulut, Yeşim Öniz
340	SMOTE-Enhanced Machine Learning Models for Reliable Crop Recommendation System	Ahmet Aytuğ Ayrancı, Mert Hayar, Atilla Özmen
342	Interpretable Machine Learning and Deep Learning Models for Predicting Chemical Oxygen Demand and Biological Oxygen Demand in Industrial Wastewater Treatment Plants for Improved Operational Efficiency and Cost-Effectiveness: A Review	Ismaila Bobboi, Kamil Dimililer
357	Bridging Perception and Communication with Intelligence: An Overview of AI in 6G ISAC Systems	İbrahim Yazıcı, Sedat Çimen, Sümeye Nur Karahan, Mücahit Altıntaş, İsmail Duru
358	Reward-Scheduling for Enhanced Energy Management Using Deep Reinforcement Learning	Taner Yaşa, Ozan Yazar, Serdar Coskun, Fengqi Zhang
359	Bit Error Rate (BER) Performance of BPSK, QPSK, and 16-QAM in a PMCW Radar Environment	Erim Fıçıcı, Yusuf İslam Demir, Tuncay Eren, Mustafa Serdar Osmanca
360	Smishing Detection Using Fine-Tuned BERT	Emre Aşkın, Muhammet Baykara
361	Transformer Models for Smishing Detection: Benchmarking BERT and ELECTRA	Emre Aşkın, Muhammet Baykara
363	Biometric-Based Criminal Identification: A Secure Method Using Facial Keypoints, Hybrid PCA–CNN Feature Fusion, and Cryptographic Hashing	Osama Hosam
364	Predictive Analysis of Transaction Risk Assessment in the Power and Energy Market: Ensuring Compliance and Stability	Miao Mao, Mingding Liao, Yizhou Jiang, Yijia Li, Chunlan Guo
365	Customer Perceptions of Humanoid Hairdresser Robot: A Focus-Group Evaluation and Machine Learning Analysis	Mohammad Karami, Nasim Ahmadzadeh Nobari Azar
366	The Need for a Compact, User-friendly Battery Simulator for Research	Ömer Arda Özdemir, Deniz Arslan, Havin Karabulut, Serhan Özdemir
367	Hybrid Volcanic Eruption and Migrating Birds Optimization: A Comparative Metaheuristic Approach Using Benchmark Functions	Mitat Uysal, Samiye Aynur Uysal, Erkut Dere
369	Interpretable Classification of Laminar and Turbulent Flow Using Gated Deep Learning Models with SHAP-Based Explainability	Burçak Asal
371	Image Retrieval through Retrieval-Oriented Dimensionality Reduction	Enis Teper, Alp Arda Yalman, Dilge Karakaş, Serena Tomakyan, Yusuf Hüseyin Şahin
372	Management of Smart Technology Systems in Conditions of Increased Requirements for Information Security	Dmytro Pecherytsia, Natalia Brynza, Olha Tiutiunyk, Maryna Mashchenko, Krystyna Tonieva, Vadym Tiutiunyk
373	6G and Quantum AI-Based Protocols: Security, Computing, and Data Processing Scenarios	Merve Güllü, Sedat Çimen, Deniz Karhan
374	Future AI Tools: LLM and Frameworks	Zeynep Örpek, Büşra Tural, Zeynep Destan
396	Designing An Android Application for Accelerating Food Delivery Pick-Ups	Onur Yolal
400	Leveraging Large Language Models and Artificial Intelligence for UAVs in 6G-Enabled Non-Terrestrial Networks	Nurefşan AK KANIGÜR, Melike MERT, İsmail DURU
401	Multi-Contour Intellectual Cyber Protection System Methodology	Yevhen Melenti, Serhii Yevseiev, Stanislav Milevskyi, Olena Akhiezer, Vladyslav Sokol, Anton Smirnov
402	From Code to Circuit: Replicating Neuronal Spikes via NEURON and LTSpice, and Hardware Implementation	Esmâ Cetinkaya, Fahriye Gemci, Mahmut Nedim Ekersular , Abdalbaki Govde , Sefa Ekici, Bugra Emirhan Akkok, Omer Faruk Yıldız
403	Creating Verification Environment Using RISC-V-DV With Open and Closed Source Tools	Deniz Zakir Eroğlu, Mete Kaan Özden, Berna Örs

412	3 Phase AFE Converter Design for EV Charger PFC Applications	Hamit Can Dinç, Erdem Akboy
413	A Lightweight IMU-Only Pipeline for Road Hazard Detection	Hasan Bulut, Huseyin Karacali, Cagla Karahan
418	Integration of Drone and Communication Systems for Disaster Response in Türkiye: A Systems Engineering Framework for Earthquake-Resilient Operations	Elizabeth Pacyna, Gary Langford
421	How Few-Shot Learning is Effective on Predicting Missing Values Using User Reviews in a Multi-criteria Dataset	Ahmet Aydın, Gökhan Göksel, Zeynep Batmaz
422	Neural Networks as a Basis for Adaptive Smart Technologies: Theoretical and Practical Aspects	Mykhailo Zhyhalov, Borys Samorodov, Sergii Kibitkin, Maksym Babenko, Dmytro Kalnytskyi, Hlib Verkolab
427	Utilizing Deep Learning Techniques to Enhance Digital Image Quality: A Review Paper	Sarah M. Mahdi, Ahmed S. Abdullah
430	Force-Triggered Reward Delivery System for Rodent Behavioral Experiments Using Arduino	Omer Tekin, Esmâ Cetinkaya
431	DDPG-Enhanced Integration of the BLUE Algorithm for Adaptive Active Queue Management and Congestion Control	Sawsan Jasim , Majid Ali, Mohanad Shwaish
432	Semi-Active RIS Optimization Using Reinforcement Learning Across Frequencies	Yasin Emre Tok
433	Design and Implementation of an AI-Assisted Platform Leveraging Large Language Models for Foresight and Scenario Generation	Ela Burcu Andıç, Tuba Çayır, Ekin Karabulut Özkan, Burcu Yilmazel
434	A Meta-Graph Learning and Transformer-Based Temporal Modeling for Dynamic City Traffic Flow Prediction	Harun Or Rashid, Chen Long, Md Riaz Hasan, Fariha Sultana
435	Matlab–Unity Based Kinematic Simulation and Interactive Control Platform for Industrial Robot Arms	Almila Duran, Tolga Erol, Ethem Kelekçi
436	Emotion Classification in Bangla: A Comprehensive Comparison of BanglaBERT, mBERT, and XLM-ROBERTa with Error Analysis and Significance Testing	Md Riaz Hasan, Zhihong Chong, Tareq Khaled Abdulwasea, Harun Or Rashid, Fariha Sultana
437	A Framework for ML-Based Intrusion Detection and Prevention: A Containerized, Cloud-Native Approach	Nikolas Naydenov, Stela Ruseva, Naomy Jerono Chemungor, Kayode Sakariyah Adewole
438	Integrated Sensing and Communication for 6G: A Review of 3GPP Standardization, OFDM-based Waveform, and Signal Processing Advances	Tuncay Eren
446	Recent Advances in Machine Learning for Reconfigurable Intelligent Surfaces: Methods, Applications, and Open Challenges	Yasin Emre Tok
448	Machine Learning Based Context Aware Segmentation for Binary Sensor Human Activity Recognition	Muhammad Arslan Ul Haq, Ali Shafique, Kashif Ali, Arslan Saleem
449	Operational Efficiency and Cost Optimization in Corporate Information Technology Management: A Qualitative Case Study on the KeyOS Operating System	Cansu Çiğdem Ekin, Gökay Gök, İbrahim Uğur
450	Performance-Based Selection Methodology for Web Communication Protocols	Roberto Albeiro Pava-Diaz, Dario Alejandro Segura Torres, Bryan Steven Perez Salas
451	AI-First Operating systems: Rethinking OS Architectures for Machine Learning	Vishalinee Pirathap, Sangeetha Arunpirakash, Samantha Rajapaksha
452	Precedent Aware Legal Reasoning System for Turkish Jurisdiction with RAG Supported LLMs	Ulaş Genç, Ömer Faruk Keskin, Nergis Pervan Akman, Ali Berkol, Derya Birant
454	Real-Time Fake News Detection Using NLP and Machine Learning Techniques	Zeynep Selcen Doğan, İsmail Şeker, Meltem Çap, Alpay Doruk, Özgü Özkan, Ali Berkol
455	TrVLM: A Turkish Vision-Language Model for Captioning and Visual Question Answering	Berkan Bucak, Emre Ceniklioğlu, Cihan Deniz Ekiz, Melike Akdağ, Gazi Erkan Bostancı, Ali Berkol
456	Logical Numerical Modeling of Battery Energy Storage Systems for Modern Power Grid Integrations	Bappaditta Saha Chowdhury, Md Shahin Alam

457	SAR Image Classification Using Edge-Preserving Filters	Barış Akkuş, Ahmet Elbir, Ali Can Karaca
458	IoT-Based Mobile Aquaponics for Sustainable Agriculture	Yüksel Tokur Bozkurt, Adil Ceylan
459	Exploring the Variability of TreeSHAP Explanations: Effects of Outlier Adjustments in Predictive Modeling	Saadet Aytaç Arpacı, Songül Varlı
460	Promoting Ethical, Sustainable, and Trustworthy Practices in Digital Media Platform Design	Daniel Schneider, Tales Gomes, Elizabeth De Jesus, Jano De Souza, António Correia
461	The Impact of Digitalization on Operational Efficiency in Ports: A Case Study of Borusan Port	Altan Konuk, İbrahim Çil, Kazım Alper Konuk
462	Energy Saving in Radio Access Networks: 3GPP 5G NR Developments and Directions Toward 6G	Tuncay Eren
464	Performance and Sustainability Analysis of Power Distribution Systems with High Solar PV Integration	Md Shahin Alam, Abdullah Hamadi, Shima Afshar, Seyed Ali Arefifar
465	Comparative Analysis of MOSFET and BJT Switching Devices in Boost Converter Applications	Abdullah Hamadi, Md Shahin Alam, Shima Afshar, Seyed Ali Arefifar
467	A Web-Based Image Segmentation Tool for Educational Purposes Using Java	Vladimir Hristov, Martin Doichev, Aykut Ismailov, Dimitar Pepedzhiev
468	Performance Analysis of Classical vs. Machine Learning-Based Image Segmentation Algorithms in a Java Web Environment	Vladimir Hristov, Martin Doichev, Aykut Ismailov, Dimitar Pepedzhiev
469	Metaheuristic Optimization of Unequal-Area Facility Layout with Safety Clearances	Aseel Jameel Haleel, Dhuha Kadhim Ismayyir , Muhammed A. Mahdi
470	Model for generating the structure of a scientific publication using generative AI	Aldeniz Rashidov, Fatme Rashidova
471	Feature Extraction from Sheet Metal Parts Using Semantic Segmentation	Gül Sığındı, Ali Kılıç, Sadettin Kapucu
472	Impact of AI Governance Mechanisms on ESG Disclosure Quality in Digital Transformation Processes Conference	Yijun Fang
473	Bridging Two Worlds: A Pedagogical Framework for Integrating AI Literacy into HRM Curricula in Morocco	Fatima Zahrae Ferehat, Abdellatif Eddakir
474	Label-Efficient Breast Ultrasound Lesion Detection using a Tiny Transformer Encoder (TEBCS-Net)	Nasim Ahmadzadeh Nobari Azar
476	Deepfake Detection and Cybersecurity Index: The Role of Computer Vision as a Digital Forensic Tool	Temiloluwa O. Modupeola, Victor Ayodeji Oluwasusi, Nasim Ahmadzadeh Nobari Azar, Aondosoo Peter Ichull
477	Application of Optimization Algorithms for Various Scenarios in Gasoline and Diesel Engines	Ebubekir Yaşar, Serhat Bilgin, Mithat Şimşek, Nurullah Gültekin
479	Service Automation: Effects of Chatbot Implementation on Resource Efficiency and Business Performance in Bulgaria	Ana Todorova, Irina Kostadinova, Svetlana Stefanova
478	Machine Learning and Deep Learning in IDS: Challenges and Future Directions	Ahmed Adil Alheeti Mohammed, Layth Mohammed Al Mashhadani Abbas, Noorah Jaber Faisal, Alaa Hamid Mohammed, Mostafa A. Hamood, Ahmed Irmayyidh Mutar

Technical Program
November 14, 2025

Time (GMT+3)	9:00 am - 11:30 am	Session 1.1. (Virtual ROOM1) Chair: Ebubekir Yasar		Session 1.2. (Virtual ROOM3) Chair: Muhammed Celik		
	11:30 am - 1:30 pm	Lunch				
	1:30 pm - 3:00 pm	Session 2.1. (Virtual ROOM1) Chair: Ebubekir Yasar		Session 2.2. (Virtual ROOM2) Chair: Oguzhan Pektezel		Session 2.3. (Virtual ROOM3) Chair: Muhammed Celik
		Session 2.4. (In-person ROOM1) Chair: Muhammed A. Mahdi			Session 2.5. (In-person ROOM2) Chair: Gulay Cicek	
	3:00 pm - 3:15 pm	Coffee Break				
	3:15 pm - 3:45 pm	Invited Speaker Session 3.1. (In-person ROOM1) Assoc. Prof. Dr. Murat Karakus Ankara University, Türkiye <i>"From Intelligence to Resilience: AI-Enabled Blockchain and Programmable Networking Security for Cyber-Physical Systems"</i>				
	3:45 pm - 4:00 pm	Coffee Break				
	4:00 pm - 6:00 pm	Session 4.1. (Virtual ROOM1) Chair: Ebubekir Yasar		Session 4.2. (Virtual ROOM2) Chair: Oguzhan Pektezel		Session 4.3. (Virtual ROOM3) Chair: Muhammed Celik
Session 4.4. (In-person ROOM1) Chair: Nadira Madjoudj						

November 15, 2025

Time (GMT+3)	9:00 am - 11:30 am	Session 5.1. (Virtual ROOM1) Chair: Ebubekir Yasar		Session 5.2. (Virtual ROOM2) Chair: Oguzhan Pektezel		Session 5.3. (Virtual ROOM3) Chair: Muhammed Celik	
	11:30 am - 1:30 pm	Lunch					
	1:30 pm - 3:00 pm	Session 6.1. (Virtual ROOM2) Chair: Oguzhan Pektezel			Session 6.2. (Virtual ROOM3) Chair: Muhammed Celik		
		Session 6.3. (In-person ROOM1) Chair: Utku Kose			Session 6.4. (In-person ROOM2) Chair: Ezgi Bingöl		
	3:00 pm - 3:15 pm	Coffee Break					
	3:15 pm - 3:45 pm	Invited Speaker Session 7.1. (In-person ROOM1) Prof. Dr. Utku Kose Süleyman Demirel University, Türkiye <i>"Advancing Healthcare via Generative Artificial Intelligence"</i>					
	3:45 pm - 4:00 pm	Coffee Break					
	4:00 pm - 6:00 pm	Session 8.1. (Virtual ROOM2) Chair: Oguzhan Pektezel			Session 8.2. (Virtual ROOM3) Chair: Muhammed Celik		
Session 8.3. (In-person ROOM1) Chair: İlker Özçelik			Session 8.4. (In-person ROOM2) Chair: Mubarak Alrashoud				

November 16, 2025

Time (GMT+3)	9:00 am - 11:30 am	Session 9.1. (Virtual ROOM1) Chair: Ebubekir Yasar		Session 9.2. (Virtual ROOM2) Chair: Oguzhan Pektezel	
	11:30 am - 1:30 pm	Lunch			
	1:30 pm - 3:30 pm	Session 10.1. (Virtual ROOM1) Chair: Ebubekir Yasar		Session 10.2. (Virtual ROOM2) Chair: Oguzhan Pektezel	

VIRTUAL SESSIONS (Virtual presentations will be held live on Zoom)					
Date	Time (GMT+3)	Session	Chair	Meeting ID	Password
November 14, 2025	9:00 am - 11:30 am	Session 1.1. (Virtual ROOM1)	Ebubekir Yasar	895 1066 6169	274355
		Session 1.2. (Virtual ROOM3)	Muhammed Celik	892 3656 3184	860362
	1:30 pm - 3:00 pm	Session 2.1. (Virtual ROOM1)	Ebubekir Yasar	821 6690 6070	870189
		Session 2.2. (Virtual ROOM2)	Oguzhan Pektezel	863 7448 8981	438826
		Session 2.3. (Virtual ROOM3)	Muhammed Celik	829 0891 4687	144733
	4:00 pm - 6:00 pm	Session 4.1. (Virtual ROOM1)	Ebubekir Yasar	849 7757 8600	117917
		Session 4.2. (Virtual ROOM2)	Oguzhan Pektezel	818 0054 5168	044901
		Session 4.3. (Virtual ROOM3)	Muhammed Celik	842 3423 3846	300577
	November 15, 2025	9:00 am - 11:30 am	Session 5.1. (Virtual ROOM1)	Ebubekir Yasar	867 2739 9536
Session 5.2. (Virtual ROOM2)			Oguzhan Pektezel	891 5743 6706	008738
Session 5.3. (Virtual ROOM3)			Muhammed Celik	860 4136 9775	758539
1:30 pm - 3:00 pm		Session 6.1. (Virtual ROOM2)	Oguzhan Pektezel	825 4654 7877	861996
		Session 6.2. (Virtual ROOM3)	Muhammed Celik	896 3099 9231	049886
4:00 pm - 6:00 pm		Session 8.1. (Virtual ROOM2)	Oguzhan Pektezel	859 5769 0369	190577
		Session 8.2. (Virtual ROOM3)	Muhammed Celik	824 2402 2037	017422
November 16, 2025		9:00 am - 11:30 am	Session 9.1. (Virtual ROOM1)	Ebubekir Yasar	812 2364 7945
	Session 9.2. (Virtual ROOM2)		Oguzhan Pektezel	844 9614 2315	054681
	1:30 pm - 3:30 pm	Session 10.1. (Virtual ROOM1)	Ebubekir Yasar	810 4340 3851	893653
		Session 10.2. (Virtual ROOM2)	Oguzhan Pektezel	825 5471 0454	914132

Session 2.1. (Virtual ROOM1)		Date: November 14, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
400 - Leveraging Large Language Models and Artificial Intelligence for UAVs in 6G-Enabled Non-Terrestrial Networks	Nurefşan AK KANIGÜR , Melike MERT, İsmail DURU	
374 - Future AI Tools: LLM and Frameworks	Zeynep Örpek, Büşra Tural, Zeynep Destan	
18 - Optimizing Supply Chain Shipping Time Prediction: A Hybrid Approach Using a Modified Marine Predators Algorithm	Resul Özdemir , Murat Taşyürek, Veysel Aslantaş	
239 - Analysis and Visualization of Energy Consumption Based on Varying Environmental Conditions and Driving Profiles in Different Electric Vehicle Models Using Realistic Route Data	Burhan Dođuhan Leventerler , Mehmet Sezgin	
89 - The Combination of Miao Culture and Womenswear: Exploring the Consumer's Want based on the Emotional Design	Diya Tang	
314 - Enhancing File Security with an Optimized Auto-Classification Framework Based on Learning Models	Zeliha Açıkgöz , Serdar Arslan, Recep Sinan Arslan	
285 - Data-Driven Simulation of Carbon Tax Policy Effects on Economic and Environmental Outcomes	Chen Ling	

Session 2.2. (Virtual ROOM2)		Date: November 14, 2025
Chair: Oguzhan Pektezel		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
71 - Integrating Artificial Intelligence into Modern Education: Models for Interactive, Multimedia and Personalized Educational Materials	Donika Valcheva , Teodor Kalushkov, Slavena Tihova, Georgi Shipkovenski, Paulina Agova	
142 - A Multimodal CNN Approach to Static Object Recognition Using RGB and Depth Data	Idress Husien	
451 - AI-First Operating systems: Rethinking OS Architectures for Machine Learning	Vishalinee Pirathap , Sangeetha Arunpirakash, Samantha Rajapaksha	
114 - Robotic Arm Control using Model-based Reinforcement Learning and a Three-Dimensional Camera for Object Manipulation	Puttha Jeenkour, Meta Mueangprasert, Montana Rungsiyopas, Nantawatana Weerayuth, Kittipong Boonlong	
200 - Assessment of Software Security Measures	Andrii Tkachov , Andrii Hapon, Illia Bukatych, Mykhailo Zhyhalov, Yehor Kudriavtsev, Stanislav Milevskiyi	
197 - Uncertainties and Emerging Uses of Human-AI Medical Diagnosis in Collaborative Clinical Practice	António Correia , Benjamim Fonseca, Daniel Schneider, Ramon Chaves, Tommi Kärkkäinen	
251 - Big Data Analytics for Optimizing Film Distribution and Social Media Promotion	Bianyi Liang	

Session 2.3. (Virtual ROOM3)		Date: November 14, 2025
Chair: Muhammed Celik		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
29 - Real-time Pose Recognition Using Smartphone-Friendly Computer Vision	Omar Hisham Abdelhakam Zaghloul , Yousef Khalil, Hüseyin Fuat Alsan, Kadir Hasođlu, Taner Arsan	
422 - Neural Networks as a Basis for Adaptive Smart Technologies: Theoretical and Practical Aspects	Mykhailo Zhyhalov , Borys Samorodov, Sergii Kibitkin, Maksym Babenko, Dmytro Kalnytskyi, Hlib Verkolab	
199 - Modern virtual reality technologies for education and training	Slavena Tihova , Emiliyan Petkov	
467 - A Web-Based Image Segmentation Tool for Educational Purposes Using Java	Vladimir Hristov , Martin Doichev, Aykut Ismailov, Dimitar Pepedzhiev	
468 - Performance Analysis of Classical vs. Machine Learning-Based Image Segmentation Algorithms in a Java Web Environment	Vladimir Hristov , Martin Doichev, Aykut Ismailov, Dimitar Pepedzhiev	
192 - LSTM-AU: Dynamic Thresholding and Explainable Autoencoding for Cyber Defense	Omar Gwassi , Osman Nuri Ucan, Ali Tariq Kalil Al-Khayyat	
198 - Post-Quantum Authentication and Authorization Using the Niederreiter Code-Theoretic Scheme	Roman Korolov, Volodymyr Hnatushenko, Anna Korchenko, Vladyslav Sokol , Iryna Udovyyk, Tymur Kurtseitov	

Session 2.4. (In-person ROOM1)		Date: November 14, 2025
Chair: Muhammed A. Mahdi		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
106 - Multi-Attribute Clothing Classification Using Modular Deep Learning Models: A ResNet-Centric Architecture	Boran Kuzukıran , Emrah Horkar, Esra Akşit, Sevgi Koyuncu Tunç	
435 - Matlab–Unity Based Kinematic Simulation and Interactive Control Platform for Industrial Robot Arms	Almila Duran , Tolga Erol, Ethem Kelekçi	
371 - Image Retrieval through Retrieval-Oriented Dimensionality Reduction	Enis Teper , Alp Arda Yalman, Dilge Karakaş, Serena Tomakyan, Yusuf Hüseyin Şahin	
193 - Graph Neural Network Approach for HS6-Level Bilateral Trade Flow Prediction	Hamdi İşiner Köse , Erdem Karaosmanoğlu, Hatice Şeyma Koç, Çağlar Günel, Serdar Arslan	
469 - Metaheuristic Optimization of Unequal-Area Facility Layout with Safety Clearances	Aseel Jameel Haleel, Dhuha Kadhim Ismayyir , Muhammed A. Mahdi	

Session 2.5. (In-person ROOM2)		Date: November 14, 2025
Chair: Gulay Cicek		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
140 - Makine ve Derin Öğrenme Tabanlı Ağ ve Web Saldırı Analizi ile Web Tabanlı IDS Platformu	Sultan Tazefidan , Gulay Cicek	
121 - Adaptive SNR-Based Higher-Order MOCZ for Short-Packet Communications	Tuncay Eren	
462 - Energy Saving in Radio Access Networks: 3GPP 5G NR Developments and Directions Toward 6G	Tuncay Eren	
357 - Bridging Perception and Communication with Intelligence: An Overview of AI in 6G ISAC Systems	İbrahim Yazıcı, Sedat Çimen , Sümeye Nur Karahan, Mücahit Altıntaş, İsmail Duru	
105 - Fundus Image-Based Diabetic Retinopathy Detection Using EfficientNetB3 with Web Integration	Sevgi Koyuncu Tunç, Cem Ünsal, Ceyda Girgeç, Ömer Faruk Kılıç	
433 - Design and Implementation of an AI-Assisted Platform Leveraging Large Language Models for Foresight and Scenario Generation	Ela Burcu Andıç, Tuba Çayır, Ekin Karabulut Özkan , Burcu Yılmazel	

<p>Invited Speaker Session 3.1. (In-person ROOM1) Assoc. Prof. Dr. Murat Karakus Ankara University, Türkiye <i>"From Intelligence to Resilience: AI-Enabled Blockchain and Programmable Networking Security for Cyber-Physical Systems"</i> November 14, 2025 Time (GMT+3): 3:15 pm - 3:45 pm</p>
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Session 4.1. (Virtual ROOM1)		Date: November 14, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
224 - Obezite Sınıflandırmasında Dikkat Mekanizmalı Tam Bağlantılı Sinir Ağı Kullanımı	İrfan Samur , Hamza Osman İlhan	
143 - PSO-based FOPI controller design for Load Frequency control	Erdal Cokmez	
259 - Deep Learning Techniques for Analysing Consumer Preferences in Fashion Planning for Emerging Entrepreneurial Projects	Junkai Wang	
454 - Real-Time Fake News Detection Using NLP and Machine Learning Techniques	Zeynep Selcen Doğan, İsmail Şeker , Meltem Çap, Alpay Doruk, Özgü Özkan, Ali Berkol	
436 - Emotion Classification in Bangla: A Comprehensive Comparison of BanglaBERT, mBERT, and XLM-RoBERTa with Error Analysis and Significance Testing	Md Riaz Hasan , Zhihong Chong, Tareq Khaled Abdulwasea, Harun Or Rashid, Fariha Sultana	
413 - A Lightweight IMU-Only Pipeline for Road Hazard Detection	Hasan Bulut , Huseyin Karacali, Cagla Karahan	
252 - The Application of Big Data Analysis in the Allocation of Higher Education Resources	Na Xu	
364 - Predictive Analysis of Transaction Risk Assessment in the Power and Energy Market: Ensuring Compliance and Stability	Miao Mao , Mingding Liao, Yizhou Jiang, Yijia Li, Chunlan Guo	
81 - Secure and Scalable IoT Data Transmission with Adaptive Protocol Switching	Hasan Tolga Ünal , Özgür Umut Vurgun, Arif Furkan Mendi, Mehmet Akif Nacar	

Session 4.2. (Virtual ROOM2)		Date: November 14, 2025
Chair: Oguzhan Pektezel		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
401 - Multi-Contour Intellectual Cyber Protection System Methodology	Yevhen Melenti, Serhii Yevseiev, Stanislav Milevskiy , Olena Akhiezer, Vladyslav Sokol, Anton Smirnov	
240 - HBC-Med: A Hybrid Blockchain Model for Medical Data Management. Balancing Privacy, Interoperability and Decentralization.	Emiliyan Petkov, Stefan Georgiev	
145 - Designing Customized Wearable Devices: A Novel AI-Based Framework for Product Development	Stefan Resch	
268 - Big Data-Driven Decision-Making in the Digital Supply Chain of Power Grid Materials	Xin Zhao, Ming Zhao , Jianfeng Wu	
119 - Comparative Evaluation of Deep Learning Models for Retinal Disease Diagnosis Using Fundus Imaging	Diane Mujawayezua , Ahmet İlhan, Boran Sekeroglu, Serife Kaba, Omid Mirzaei	
478 - Machine Learning and Deep Learning in IDS: Challenges and Future Directions	Ahmed Adil Alheeti Mohammed, Layth Mohammed Al Mashhadani Abbas, Noorah Jaber Faisal, Alaa Hamid Mohammed , Mostafa A. Hamood, Ahmed Irmayyidh Mutar	
305 - Machine Learning-Based Analysis of Therapeutic Music Patterns for Emotion Recognition	Junyu Li	
333 - Development of Machine Learning and Statistics-based Call Count and Average Talk Time Prediction Models	Onur Aygün, Ceren Ulus , Mehmet Fatih Akay	
8 - No-Code Application Programming Interface Testing Platform – Atlas	Emre Torun, Ceren Ulus , Talha Eroğlu, Rıdvan Gülcü, Cihan Güler, Berat Çetin, Nazlı Yusufoğlu, Mehmet Fatih Akay	

Session 4.3. (Virtual ROOM3)		Date: November 14, 2025
Chair: Muhammed Celik		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
152 - Comparison of Four Deep Learning Architectures for Flat Sheet Metal Part Identification	Gül Sığındı , Ali Kılıç, Sadettin Kapucu	
471 - Feature Extraction from Sheet Metal Parts Using Semantic Segmentation	Gül Sığındı , Ali Kılıç, Sadettin Kapucu	
148 - Methodology for developing software projects at high school stage	Mariyana Nikolova, Diana Lazarova	
39 - AI-Powered Neural Architecture Search (NAS) for Optimizing Distributed Learning Systems in Intelligent Communication Networks	Shiqi Xu	
112 - Optimization Model and Algorithm for Balanced Energy Management in a Cloud Energy Storage System	Oleg Asenov, Georgi Shipkovenski	
90 - Enhancing Customer Engagement through an AI- Powered Chatbot for Product Presentations and Demonstrations	Gizem Nur Bikir , Osman Kavaf, Serkan Ulucan, Alper Uzanulu, Hasan Tolga Ünal, Müge Ak, Doruk Can Mutlu, Arif Furkan Mendi, Mehmet Akif Nacar	
450 - Performance-Based Selection Methodology for Web Communication Protocols	Roberto Albeiro Pava-Diaz, Dario Alejandro Segura Torres , Bryan Steven Perez Salas	
85 - Low-carbon urban travel solutions integrated with IoT sensor networks and intelligent traffic management systems	Shuolei Cao	
332 - Warehouse Automation Simulation involving Robotic Picking System	Slawomir Samolej, Darya Baturyna, Reggie Davidrajuh	

Session 4.4. (In-person ROOM1)		Date: November 14, 2025
Chair: Nadira Madjoudj		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
258 - Addressing Class Imbalance in IoT Intrusion Detection with Hybrid Machine Learning Models	Alperen Tezcan , Oğuzhan Karahan	
26 - Assessment of Photovoltaic Module Degradation Through Neural Network Classification	Nadira Madjoudj , Hichem Hafdaoui, Nasreddine Belhaouas, Fateh Mehareb, Houria Assem, Abdallah Bouabidi	
233 - Kübik Hücreli Ku-Band Luneburg Lens Anten Tasarımı	Ekin Ayas , Yasin Genç, Ahmet Akkoç, Çağatay Korkuç, Erkan Afacan, Erdem Yazgan	
359 - Bit Error Rate (BER) Performance of BPSK, QPSK, and 16-QAM in a PMCW Radar Environment	Erim Fıçıcı , Yusuf İslam Demir, Tuncay Eren, Mustafa Serdar Osmanca	
438 - Integrated Sensing and Communication for 6G: A Review of 3GPP Standardization, OFDM-based Waveform, and Signal Processing Advances	Tuncay Eren	
446 - Recent Advances in Machine Learning for Reconfigurable Intelligent Surfaces: Methods, Applications, and Open Challenges	Yasin Emre Tok	
432 - Semi-Active RIS Optimization Using Reinforcement Learning Across Frequencies	Yasin Emre Tok	

Session 5.1. (Virtual ROOM1)		Date: November 15, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 9:00 am - 11:30 am
Paper	Author (s)	
74 - Analyzing Emotion Analysis Technologies to Enhance Personalized Learning in Modern Education System	Wei Jin	
80 - Fire Extinguisher Position Detection in Complex Environments based on Deep Learning Model of ResNet-50 and Feature Pyramid Enhancement	Xiaodong Ma	
288 - Cognitive Remodelling and Inclusive Design in VR-AI Hybrid Classrooms for Cross-Cultural Education	Xinchun Zhong , Hanyue Deng, Yixin Gao, Xuan Luo, Yunxia Cui	
322 - Failure Modes and Effects Analysis of Aircraft Structural Components Using Digital Twin Technology	Song Wang , Qinghua Zhao, Li Ning	
88 - Adaptive Operation Planning and Intelligent Decision-Making System For Lunar Soil Drilling Based on Reinforcement Learning	Rui Qiu , Guangcheng Ma, Hao Fu	
37 - Integrating Critical Chain Methodologies with Machine Learning for Optimized Progress Management in Commercial Real Estate Projects	Haokun Guo	
262 - Design And Implementation of a Spatiotemporal GIS Database for Migrant Population Dynamics Management	Hongkai Cao	
42 - High-Precision Gravity and Magnetic Gradient Anomaly Detection for Mineral Exploration and Sustainable Resource Management	Jiayi Liu , Qian Zhong	
289 - Dynamic Rule Engine for Real-Time Risk Control in Financial Digital Transformation	Linhai Yue , Zhenxing Su, Xingchen Dong	
83 - Optimising Global Digital Economy Growth Using Advanced Data Transmission Techniques and Real-Time Data Processing	Lufan Chen , Shuangjun Wu	
292 - An Intelligent Framework for Identifying Carbon Emission Thresholds in the Digital Economy	Jintao Xu , Han Han, Xiaoyu Ge	

Session 5.2. (Virtual ROOM2)		Date: November 15, 2025
Chair: Oguzhan Pektezel		Time (GMT+3): 9:00 am - 11:30 am
Paper	Author (s)	
44 - Constructing a Novel Dataset for Android Bug Prediction	Amany Saies , Samer Zein	
369 - Interpretable Classification of Laminar and Turbulent Flow Using Gated Deep Learning Models with SHAP-Based Explainability	Burçak Asal	
243 - Enhancing LVRT capability in grid connected PV system using DRL based controller during unbalanced faults	Büşra Özgenç , Yeşim Aysel Baysal Aslanhan, İsmail Hakkı Altaş	
329 - A Prompt Engineering Methodology for Evaluating Large Language Models in Academic Processes	Mihaela Georgieva, Ioannis Patias , Plamen Totev	
195 - Comparative Study of Classical ML and Deep Learning on Small EEG Datasets	İdil Gökçe Demirtaş , Ali Berkol	
236 - Prisma Guided Systematic Review of Large Language Model (LLM) Applications in Business Intelligence	Ibrahim Yuluç , Fatih Dagdeviren, Murat Orun, Ismail Duran, Orhan Dagdeviren	
43 - Multi-Agent Adversarial Training for Text-to-Image GANs	Jiabao Shi	
153 - A Sensor-Based System for Cardiac Activity Tracking with Integrated Remote Monitoring Capabilities	Galya Georgieva-Tsaneva, Krasimir Cheshmedzhiev	
437 - A Framework for ML-Based Intrusion Detection and Prevention: A Containerized, Cloud-Native Approach	Nikolas Naydenov , Stela Ruseva, Naomy Jerono Chemungor, Kayode Sakariyah Adewole	
261 - Big Data Analytics-Based Design Strategy Research for Regional Cultural Brand Packaging	Yixin Gao , Xinchun Zhong, Shengming Guo, Yiyang Wu	
270 - Effects of Virtual and Mixed Reality Environments on Heart Rate Dynamics During High-Intensity Gaming	Penio Lebamovski , Evgeniya Gospodinova, Galya Georgieva-Tsaneva	
313 - Automatic Anomaly Detection in Panoramic Dental Radiographs Using a YOLOv8-Based Deep Learning Method	Muhammet Tarık Yılmaz , Muhammed Ali Pala	

Session 5.3. (Virtual ROOM3)		Date: November 15, 2025
Chair: Muhammed Celik		Time (GMT+3): 9:00 am - 11:30 am
Paper	Author (s)	
184 - Phishing Detection Framework and Cybersecurity Effectiveness during COVID-19 pandemic: A Technical Review	Diego Alonso Bejarano Granados , Jazmín Vanessa Gadea Paucar, Silvia Rita Rodríguez Alvarez, Jose Cornejo	
70 - Control of Radiant Zone Heaters and Coolers with Adaptive Temperature Setpoint Limitation	Dimitar Mankov , Mihail Mihalev, Docho Tsankov	
40 - Financial Analytics for Green Supply Chain Optimization: A Machine Learning Approach to Investment Decision Making	Yuanxi Mao	
340 - SMOTE-Enhanced Machine Learning Models for Reliable Crop Recommendation System	Ahmet Aytuğ Ayrancı, Mert Hayar , Atilla Özmen	
196 - Genetic Algorithm-Based Hyperparameter Optimization for Deep Learning Models	Ali Berkol	
461 - The Impact of Digitalization on Operational Efficiency in Ports: A Case Study of Borusan Port	Altan Konuk , İbrahim Çil, Kazım Alper Konuk	
457 - SAR Image Classification Using Edge-Preserving Filters	Barış Akkuş , Ahmet Elbir, Ali Can Karaca	
116 - NLP-Driven Perplexity-Based Anomaly Detection in IoT Sensor Data	Ertürk Erdağ	
247 - Deep Learning Based Visual Matching Approach for Reliable Target Localization Under Varying Altitudes and Viewing Angles	Fatih Baykal , Ahmet Saygın Öğülmüş, Burak Yenipınar, Mehmet İrfan Gedik	
434 - A Meta-Graph Learning and Transformer-Based Temporal Modeling for Dynamic City Traffic Flow Prediction	Harun Or Rashid , Chen Long, Md Riaz Hasan, Fariha Sultana	

Session 6.1. (Virtual ROOM2)		Date: November 15, 2025
Chair: Oguzhan Pektezel		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
237 - Blockchain-Enhanced Federated Learning for Credit Card Fraud Detection	Safak Kayikci , Taghi Khoshgoftaar	
185 - MRI-Based Brain Tumor Classification with Deep Learning Methods	Melike Kılıç, Seyit Metin Köroğlu , Duygu Işık, Savaş İzzetoğlu, Züleyha Akusta Dağdeviren	
458 - IoT-Based Mobile Aquaponics for Sustainable Agriculture	Yüksel Tokur Bozkurt , Adil Ceylan	
86 - Research on the integration of Internet of Things and artificial intelligence in the construction of green transportation infrastructure: Aiming at optimizing transportation economic and environmental benefits	Ye Zhu	
472 - Impact of AI Governance Mechanisms on ESG Disclosure Quality in Digital Transformation Processes Conference	Yijun Fang	
123 - The Effect of Parameters Used in Sla-Type Printers on Part's Mechanical Strength	Volkan Erol , Volkan Korkut, Hürrem Akbiyik	
219 - A Hybrid CNN-LSTM Framework for State of Charge Estimation of Lithium-ion Batteries	Uzay Gezer , Mehmet Küçük, Ozan Yazar, Serdar Coskun, Fengqi Zhang	
358 - Reward-Scheduling for Enhanced Energy Management Using Deep Reinforcement Learning	Taner Yaşa , Ozan Yazar, Serdar Coskun, Fengqi Zhang	

Session 6.2. (Virtual ROOM3)		Date: November 15, 2025
Chair: Muhammed Celik		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
226 - Discrimination of the Melanoma and Dysplastic Nevi from the Hyperspectral Dermoscopy Images: A Comparison of Deep Classification Networks	Saadet Aytaç Arpacı , Songül Varlı, Gökhan Bilgin	
459 - Exploring the Variability of TreeSHAP Explanations: Effects of Outlier Adjustments in Predictive Modeling	Saadet Aytaç Arpacı , Songül Varlı	
52 - Impact of artificial intelligence on human resources in the context of Industry 5.0	Sibel Ahmedova , Siyka Demirova, Dzhemal Ali, Yordan Yankov	
215 - Analysis of Deep Learning Algorithms for Automated Drowning Detection	Ruba Al-Harbi, Lama Al-Mubarak, Layan Al-Tamimi, Nawal Al-Otaibi, Zohra Sbai	
293 - Collaborative Optimization for Green Carbon Reduction in New Power Systems: Multi-Entity Interaction Across Research, Standards, and Industry	Tiantian Chen, Wenqing Li, Lian Liu, Ling Luo, Tao Wang	
117 - Oral Disease Classification Using an Ensemble Of Vision Transformers and Convolutional Neural Networks	Mohamed Lamine Cisse , Melike Sah	
431 - DDPG-Enhanced Integration of the BLUE Algorithm for Adaptive Active Queue Management and Congestion Control	Sawsan Jasim , Majid Ali, Mohanad Shwaish	

Session 6.3. (In-person ROOM1)		Date: November 15, 2025
Chair: Utku Kose		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
158 - Generative Adversarial Networks-Driven Synthetic Patient Data Creation for Risk Identification in Childhood Acute Lymphoblastic Leukemia	Utku Kose , Osman Ceylan, Muhammet Enes Karatas, Ilhan Uysal, Ahmet Koca	
33 - CBAM-Enhanced ResNet18 for Interpretable Binary Classification of Cattle Retinal Health Using Grad-CAM and SHAP Explainability	Roseline Oluwaseun Ogundokun , Rotimi-Williams Bello, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk	
34 - CRAM-LSTMNet: A Lightweight Spatio-Sequential Deep Learning Architecture for Binary Retinal Health Classification in Cattle	Roseline Oluwaseun Ogundokun , Rotimi-Williams Bello, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk	
27 - Navigating the Dual-Edged Sword of AI in Cybersecurity	Rotimi-Williams Bello , Roseline O. Ogundokun, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk, Daniel Olubummo	

Session 6.4. (In-person ROOM2)		Date: November 15, 2025
Chair: Ezgi Bingöl		Time (GMT+3): 1:30 pm - 3:00 pm
Paper	Author (s)	
477 - Application of Optimization Algorithms for Various Scenarios in Gasoline and Diesel Engines	Ebubekir Yaşar , Serhat Bilgin, Mithat Şimşek, Nurullah Gültekin	
403 - Creating Verification Environment Using RISC-V With Open and Closed Source Tools	Deniz Zakir Eroğlu , Mete Kaan Özden, Berna Örs	
273 - Combining Similar Trajectories and XGBoost via Residual Learning for Traffic Flow Forecasting	Ümit Işlak, Elif Yılmaz, İlker Arslan , Tuna Çakar	
246 - LLM-Augmented and Fair Machine Learning Framework for University Admission Prediction	Mohammad Abbadi, Yassine Himeur, Shadi Atalla , Dahlia Mansoor, Wathiq Mansoor	
402 - From Code to Circuit: Replicating Neuronal Spikes via NEURON and LTSpice, and Hardware Implementation	Esmâ Cetinkaya , Fahriye Gemci, Mahmut Nedim Ekersular , Abdulkaki Govde , Sefa Ekici, Bugra Emirhan Akkok, Omer Faruk Yildiz	
48 - Operational Anomaly Detection in Low-Frequency Telecommunications Time Series Using Bayesian Matrix Factorization	Ezgi Bingöl , Gizem Dürgeci Bekar	

Invited Speaker
Session 7.1. (In-person ROOM1)
Prof. Dr. Utku Kose

Süleyman Demirel University, Türkiye

"Advancing Healthcare via Generative Artificial Intelligence"

November 15, 2025

Time (GMT+3): 3:15 pm - 3:45 pm

Session 8.1. (Virtual ROOM2) Chair: Oguzhan Pektezcel	Date: November 15, 2025 Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
396 - Designing An Android Application for Accelerating Food Delivery Pick-Ups	Onur Yolal
366 - The Need for a Compact, User-friendly Battery Simulator for Research	Ömer Arda Özdemir , Deniz Arslan, Havin Karabulut, Serhan Özdemir
312 - Energy Efficiency Maximization with Dynamic Reflection Coefficient based Physical Layer Security: A Symbiotic Approach for Cellular Networks	Muhammed Yusuf ONAY
102 - Air Quality Forecast With Deep Learning Models Processing	Marko Bocharov , Teodor Kalushkov, Georgi Shipkovenski
372 - Management of Smart Technology Systems in Conditions of Increased Requirements for Information Security	Dmytro Pecherytsia , Natalia Brynza, Olha Tiutiunyk, Maryna Mashchenko, Krystyna Tonieva, Vadym Tiutiunyk
455 - TrVLM: A Turkish Vision-Language Model for Captioning and Visual Question Answering	Berkan Bucak , Emre Ceniklioğlu, Cihan Deniz Ekiz, Melike Akdağ, Gazi Erkan Bostancı, Ali Berkol
365 - Customer Perceptions of Humanoid Hairdresser Robot: A Focus-Group Evaluation and Machine Learning Analysis	Mohammad Karami , Nasim Ahmadzadeh Nobari Azar
47 - Improving Environmental Degradation Prediction Using Metaheuristic-Driven Machine Learning Technique	Oluwatayomi Adegboye , Kekeli Feda, Ezgi Deniz

Session 8.2. (Virtual ROOM3) Chair: Muhammed Celik	Date: November 15, 2025 Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
30 - Self Balancing Robot with RL Control Using Q-learning, Deep Q Neural Network and DDPG	Qiong Li , Jaweria Asif, Jerry Wu
257 - Multimodal Learning Affect Recognition and Adaptive Teaching Strategy Adjustment for Online Education Scenarios	Qiuping Wei , Yuxuan Xie
67 - Autonomous Human Detection Drone for Disaster Response in Flooded Areas	Tharushi Indrakumara , Hirushi Hewarachchi, Sanduni Somasiri, Piumika Karunanayake
160 - Forecasting Flight Delays From Operational and Weather Data: A Regression-Based Machine Learning Application	Yağmur DEMİRKAYA , Kerem GENCER, Sude MEYDAN, Murat Okan GÜVEN, İsmail SAVRAN
61 - Multi-Client Scenario-Based Reverse Shell Attack Simulation	Malek Malkawi, Yasamin Akrami , Safa Kechaou, Reda Alhajj
448 - Machine Learning Based Context Aware Segmentation for Binary Sensor Human Activity Recognition	Muhammad Arslan UI Haq , Ali Shafique, Kashif Ali, Arslan Saleem
120 - Aspect-Based Sentiment Analysis Using Transformer-Based Zero-Shot Learning for Hotel Reviews	Saed Alqaraleh , Amani Kanti, Hasan ALHUSEIN
157 - A Comparative Evaluation of Cypress and Katalon for Web Application Test Automation	Sarah Shokeh, Mohammad Khier Sabobeh , Ahmad Baker, Samer Zein
271 - Transformer-Based Novelty Scoring of Research Ideas: An End-to-End NLP Pipeline	Necip Gözüaçık

Session 8.3. (In-person ROOM1)		Date: November 15, 2025
Chair: İlker Özçelik		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
330 - A Code-Based Universal Cryptographic Accumulator	İlker Özçelik	
109 - Edge Authentication Using a Cryptographic Accumulator	İsmet Kaan Çekiş, Armağan Toros, Volkan Yiğit, İlker Özçelik	
412 - 3 Phase AFE Converter Design for EV Charger PFC Applications	Hamit Can Dinç , Erdem Akboy	
430 - Force-Triggered Reward Delivery System for Rodent Behavioral Experiments Using Arduino	Omer Tekin , Esmâ Cetinkaya	
147 - Performance Analysis of Solar Panels: Effects of Panel Tilt, Surface Cleanliness, and Weather Conditions	Bilge Sıla Çevik , Ceyda Aksoy Tirmikçi	
75 - Grade Prediction Using Transfer Learning Methods on Meningioma Brain Tumor Images	Kaan Gümele , Talha Karahan, Mustafa Umut Etli, Gonca Gül Öndüç, Muhammet Sinan Başarslan	

Session 8.4. (In-person ROOM2)		Date: November 15, 2025
Chair: Mubarak Alrashoud		Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)	
363 - Biometric-Based Criminal Identification: A Secure Method Using Facial Keypoints, Hybrid PCA-CNN Feature Fusion, and Cryptographic Hashing	Osama Hosam	
28 - Comparing Solar Irradiance obtained from WRF and LibRatran Models	Kamel ABDELADIM , Abdelhak RAZAGUI, Kada BOUCHOUICHA, Amar HADJ ARAB, Smail SEMAOUI, Ismail BENDAAS, Saliha BOULAHCHICHE	
107 - Transforming Test Automation: AI-Driven Object Locator Extraction for Delphi-Based Applications	Özay Kekulluoglu, Merve Nergiz Afatsun , Mustafa Güllü Aydın	
317 - Development and validation of coronary heart disease detection model using machine learning.	Mubarak Alrashoud	
418 - Integration of Drone and Communication Systems for Disaster Response in Türkiye: A Systems Engineering Framework for Earthquake-Resilient Operations	Elizabeth Pacyna , Gary Langford	

Session 9.1. (Virtual ROOM1)		Date: November 16, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 9:00 am - 11:30 am
Paper	Author (s)	
360 - Smishing Detection Using Fine-Tuned BERT	Emre Aşkın , Muhammet Baykara	
361 - Transformer Models for Smishing Detection: Benchmarking BERT and ELECTRA	Emre Aşkın , Muhammet Baykara	
367 - Hybrid Volcanic Eruption and Migrating Birds Optimization: A Comparative Metaheuristic Approach Using Benchmark Functions	Mitat Uysal, Samiye Aynur Uysal, Erkut Dere	
25 - Analysis of Pulse Shapers in Split Hopkinson Pressure Bar Systems and a Novel Latent Space Based Spectral Evaluation Framework	Furkan Kosova , Nuri Durlu	
227 - A Resource-Efficient and Deployable Deep Learning Model for Reliable Leaf Classification - LeafNet	Kenan Koçoğlu , Mehmet Sezgin	
339 - Using Convolutional Neural Networks and Multi Layer Preceptron in Arabic Handwritten Digit Recognition	Ulaş Akbulut , Yeşim Önez	
104 - Generative AI-Based Digital Narrative Content Generation for Ideological and Political Education and Ethical Risk Prevention	Xiuying Lu	
103 - ETL Process Optimization and Data Warehouse Construction for the Main Structural Quality Testing Data of Prefabricated Concrete Buildings Based on AAS	Xizhong Zhang , Xinliang Duan	
36 - Reduced-Sensors Model Predictive Control for Three-Phase Grid-Connected Inverter using Extrapolation Technique	Ekrem DEMİR , Ozan GULBUDAK	
291 - Intelligent Decision-Making in Manufacturing Transformation: A Large Multimodal Approach	Wei Yang, Zhenxing Su , Weinan Zhong	

Session 9.2. (Virtual ROOM2)		Date: November 16, 2025
Chair: Oguzhan Pektezel		Time (GMT+3): 9:00 am - 11:30 am
Paper	Author (s)	
470 - Model for generating the structure of a scientific publication using generative AI	Aldeniz Rashidov , Fatme Rashidova	
328 - Prediction of Cyberattacks using Machine Learning in the Financial Sector: Technical Review	Victor Moran Torres, Jack Roman Diaz , Jose Cornejo, Enrique Sanchez Portugal	
156 - Cardiovascular Disease Detection Using Embedded Software for Signal Preprocessing: A Technical Review	Jorge Luis Hinostroza , Gricel Mucha, Jose Cornejo, Silvia Rita Rodríguez Alvarez	
479 - Service Automation: Effects of Chatbot Implementation on Resource Efficiency and Business Performance in Bulgaria	Ana Todorova , Irina Kostadinova, Svetlana Stefanova	
456 - Logical Numerical Modeling of Battery Energy Storage Systems for Modern Power Grid Integrations	Bappaditta Saha Chowdhury , Md Shahin Alam	
38 - Research on Autonomous Driving Control Strategies for Rail Transit Trains Based on Intelligent Transportation Systems	Yan Zhang	
149 - Harnessing Artificial Intelligence to Optimize Decision-Making and Social Value Creation in Philanthropy	Mahaning Indrawaty Wijaya , Ali Gunawan, Richard Wiputra, Rindang Widuri	
464 - Performance and Sustainability Analysis of Power Distribution Systems with High Solar PV Integration	Md Shahin Alam , Abdullah Hamadi, Shima Afshar, Seyed Ali Arefifar	
159 - An Interpretable Machine Learning Approach to Decode Event-Related Oscillations during Motor-Imagery	Reshma Kar , Anshul Kaushal, Sricheta Parui, Gulhan Bizel	
476 - Deepfake Detection and Cybersecurity Index: The Role of Computer Vision as a Digital Forensic Tool	Temiloluwa O. Modupeola, Victor Ayodeji Oluwasusi, Nasim Ahmadzadeh Nobari Azar , Aondosoo Peter Ichull	
474 - Label-Efficient Breast Ultrasound Lesion Detection using a Tiny Transformer Encoder (TEBCS-Net)	Nasim Ahmadzadeh Nobari Azar	

Session 10.1. (Virtual ROOM1)		Date: November 16, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
73 - Leveraging Big Data and AI for Strategic Decision-Making and Operational Efficiency in Multinational Corporations	Qin Cheng	
77 - Application of digital twin and data visualization technology in manufacturing industry	Ning Zhang	
290 - A Data-Driven Framework for Personalized Innovation and Entrepreneurship Education on Online Platforms	Junjie You , Haoyun Liang	
84 - AI-Assisted Professional Development for English Teachers: Improving Pedagogical Strategies in Adult Education	Jingyi Han	
306 - Procedural Generation of Heritage Weaving Methods through Human–AI Collaboration	Yixin Hong , Hongyang Zhang, Xu Zhu	
249 - BERT-Driven Analysis of Leadership Communication Patterns in SaaS Platforms	Jiani Gao	
302 - ECFuzz++: An Enhanced Fuzz Testing Framework for Large-Scale System Configuration Vulnerabilities Based on Multimodal AI	Yuanzhe Feng	
286 - Genetic Algorithm-Based Tourism Carrying Capacity Optimization Model	Tianyi Wu	

Session 10.2. (Virtual ROOM2) Chair: Oguzhan Pektezel	Date: November 16, 2025 Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)
465 - Comparative Analysis of MOSFET and BJT Switching Devices in Boost Converter Applications	Abdullah Hamadi , Md Shahin Alam, Shima Afshar, Seyed Ali Arefifar
260 - Exploring the Role of Virtual Simulation and AI Technologies in Modernizing Higher Vocational Education Curriculum	Biaobang Xu
78 - Artificial Intelligence-Driven Strategic Risk Forecasting: Integration of Random Forest and GBDT Models with Real-Time Updates	Biaobang Xu
473 - Bridging Two Worlds: A Pedagogical Framework for Integrating AI Literacy into HRM Curricula in Morocco	Fatima Zahrae Ferehat , Abdellatif Eddakir
327 - Disease Detection and Classification from Lung Images Using Deep Learning Methods	Ipek Atik, Murat Kaan Akar
342 - Interpretable Machine Learning and Deep Learning Models for Predicting Chemical Oxygen Demand and Biological Oxygen Demand in Industrial Wastewater Treatment Plants for Improved Operational Efficiency and Cost-Effectiveness: A Review	Ismaila Bobboi , Kamil Dimililer
323 - Ethical, Privacy, and Technical Challenges of AI-Driven Emotion Recognition in Education Settings: An Umbrella Review	Sachini Gunaserka , Mirka Saarela
427 - Utilizing Deep Learning Techniques to Enhance Digital Image Quality: A Review Paper	Sarah M. Mahdi , Ahmed S. Abdullah