



ISAS 2025

9th International Symposium on Innovative Approaches in Smart Technologies

Information

Committees
Accepted Papers
Technical Program

Invited Speakers
Congress Statistics

June 27-28, 2025, Gaziantep - Türkiye

www.isassymposium.org



IEEE



IEEE SMC
Systems, Man, and Cybernetics Society



GAZİANTEP
İSLAM
SCIENCE AND
TECHNOLOGY
UNIVERSITY

Committees

Co-chairs

Ipek Atik, Gaziantep Islam Science and Technology University, Türkiye
Metin Bedir, Gaziantep Islam Science and Technology University, Türkiye

Technical Program Chairs

Mehmet Arıcı, Gaziantep Islam Science and Technology University, Türkiye
Osman Bilgin, Gaziantep Islam Science and Technology University, Türkiye
Turgut Ozseven, Tokat Gaziosmanpasa University, Türkiye

Publication Chairs

Cemal Aktürk, Gaziantep Islam Science and Technology University, Türkiye
Cihan Kaleli, Gaziantep Islam Science and Technology University, Türkiye
Korhan Cengiz, University of Fujairah, United Arab Emirates
Mehmet Umut Salur, Gaziantep Islam Science and Technology University, Türkiye

Advisory Committees

Kemal Delihacıoğlu, Kilis 7 Aralık University, Türkiye
Muharrem Düğenci, Karabük University, Türkiye
Serhii Yevseiev, National Technical University “Kharkiv Polytechnic Institute”, Ukraine

Technical Committee Members

» Abdullah Başçı, Atatürk University, Turkey
» Adil Baykasoglu, Dokuz Eylul University, Türkiye
» Ahmed Al-Durra, Khalifa University, UAE
» Arzum Işıtan, Pamukkale University, Türkiye
» Ali Jamoos, Al-Quds, Palestine
» Bayram Akgul, Bartın University, Türkiye
» Bilal Babayiğit, Erciyes University, Türkiye
» Carlos Alves, Polytechnic Institute of Castelo Branco, Portugal
» Chiew-Foong Kwong, University of Nottingham, Ningbo Campus, China
» Dursun Ekmekci, Karabük University, Türkiye
» Efe Çetin Yılmaz, Kilis 7 Aralık University, Türkiye
» Emine Gül Cansu Ergün, Baskent University, Türkiye
» Fa'eq Radwan, Near East University, Cyprus
» George Christou, European University Cyprus, Cyprus
» Georgina Mirceva, Ss. Cyril and Methodius University in Skopje, Macedonia
» Habip Yusuf Hasırcı, Kilis 7 Aralık University, Türkiye
» Hamdullah Ozturk, Gaziantep Islam Science and Technology University, Türkiye
» Hao Wu, Maynooth University, Ireland
» Irada B. Dadashova, Baku State University, Azerbaijan
» İlker Yıldız, Bolu Abant İzzet Baysal University, Türkiye
» İsmail İşeri, Ondokuz Mayıs University, Türkiye
» Ivan Ganchev, University of Limerick, Ireland / University of Plovdiv “Paisii Hilendarski”, Bulgaria
» Jamshed Iqbal, University of Hull, England
» Katarzyna Pietrucha-Urbanik, Rzeszów University of Technology, Poland
» Kemal Delihacıoğlu, Kilis 7 Aralık University, Türkiye
» Krystyna Januszkiewicz, West Pomeranian University of Technology, Poland
» Lim Seng Poh, Universiti Tunku Abdul Rahman, Jalan Universiti, Malaysia
» Ljiljana Trajkovic, Simon Fraser University, Canada
» Loredana Judela Gheorge, Asachi Technical University of Iasi, Romania
» Lu Hou, Beijing University of Posts and Telecommunications, China
» Manuel G. Gericota, Polytechnic of Porto, Portugal
» Marco Anisetti, Università degli Studi di Milano, Italy
» Medea Burjanadze, University of Georgia University, Georgia
» Mehmet Emir Koksall, Ondokuz Mayıs University, Türkiye
» Mete Çelik, Erciyes University, Türkiye
» Mikail Özçiloğlu, Kilis 7 Aralık University, Türkiye
» Muhammet Yasin Pak, Gaziantep Islam Science and Technology University, Türkiye
» Mustafa Nalbantoğlu, Kilis 7 Aralık University, Türkiye
» Nur Syazreen Ahmad, Universiti Sains Malaysia, Malaysia
» Ömer Faruk Farsakoglu, Kilis 7 Aralık University, Türkiye
» Rusdi Hamamreh, Al-Quds, Palestine
» Seher Arslankaya, Sakarya University, Türkiye
» Selcuk Okdem, Erciyes University, Türkiye
» Shahbaz Memon, Juelich Supercomputing Centre, Germany
» Tarık Talan, Gaziantep Islam Science and Technology University, Türkiye
» Uğur Avdan, Eskişehir Technical University, Türkiye
» Yüksel Tokur Bozkurt, Gaziantep Islam Science and Technology University, Türkiye
» Zafer Doğan, Tokat Gaziosmanpaşa University, Türkiye

Invited Speakers

**Prof. Dr. Güven Çankaya**

Ankara Yıldırım Beyazıt University University, Türkiye

Title: Artificial Intelligence, Materials Science, Nanotechnology and Biomimetics: Future Forces

Short-Bio:

Prof. Dr. Güven ÇANKAYA is an experienced physicist and academician. He completed his undergraduate, graduate and doctoral degrees at the Department of Physics, Atatürk University. ÇANKAYA, who continued his academic career at Gaziosmanpaşa University, served as the founding Dean at Kastamonu University. ÇANKAYA's research areas are quite broad, covering topics such as Plastic Deformation, Thin Film Solar Cells (CIGS), Semiconductors, Sensors, Metrology, Health Physics, CBRN, Biomimetics, Materials Science, and Nanotechnology. With 47 publications in SCI-indexed journals, ÇANKAYA is internationally recognized for his work. In addition to his academic career, ÇANKAYA has held administrative positions at various universities and has carried out important projects at institutions such as TÜBİTAK. He has also made significant contributions to the dissemination of scientific knowledge by giving scientific trainings and seminars to teachers and students. Prof. Dr. Güven ÇANKAYA is married and has two children. ÇANKAYA, who speaks English, currently works as a faculty member at the Faculty of Engineering and Natural Sciences, Ankara Yıldırım Beyazıt University.

**Prof. Dr. Köksal Erentürk**

Atatürk University, Türkiye | IEEE Member

Title: A Novel Perspective of Transfer Learning Application to Renewable Energy Systems

Short-Bio:

Köksal Erenturk has a BSc degree from Yıldız Technical University, Department of Electronics & Telecommunication Engineering, İstanbul, Türkiye 1994; MSc degree from the Istanbul University, Institute of Graduate Studies in Applied Sciences, İstanbul, Türkiye 1997; and PhD degree in Electrical Engineering from Karadeniz Technical University, Trabzon, Türkiye 2002. Currently he is serving as a full-professor in Faculty of Engineering, Department of both Electrical and Computer Engineering, at Atatürk University, Erzurum, Türkiye. He has also served as a faculty member at different universities in different countries such as Kuwait, Sweden, Kingdom of Saudi Arabia and etc. He is a member of IEEE since 2008, and holding more than 10 awards from broad area of scientific societies. He has authored and coauthored more than 150 journal and conference papers. His work has focused on machine learning, artificial intelligence, deep learning, generative adversarial networks, fuzzy logic and control, artificial neural networks, genetic algorithms, development and application of control theory to a variety of mechatronic systems, with a focus on observation and estimation-based control as well as highly efficient power converters, resonant and multilevel converters, including the modeling, control, and development of prototypes for various industrial applications in electric traction, renewable energy, power supplies for drives, energy storage devices, and their optimal control for electrified transportation and renewable energy applications.

**Assoc. Prof. Dr. Korhan Cengiz**

Department of Electrical Engineering, Prince Mohammad Bin Fahd University, Saudi Arabia | IEEE Senior Member

Title: Novel AI Methods for Internet of Things

Short-Bio:

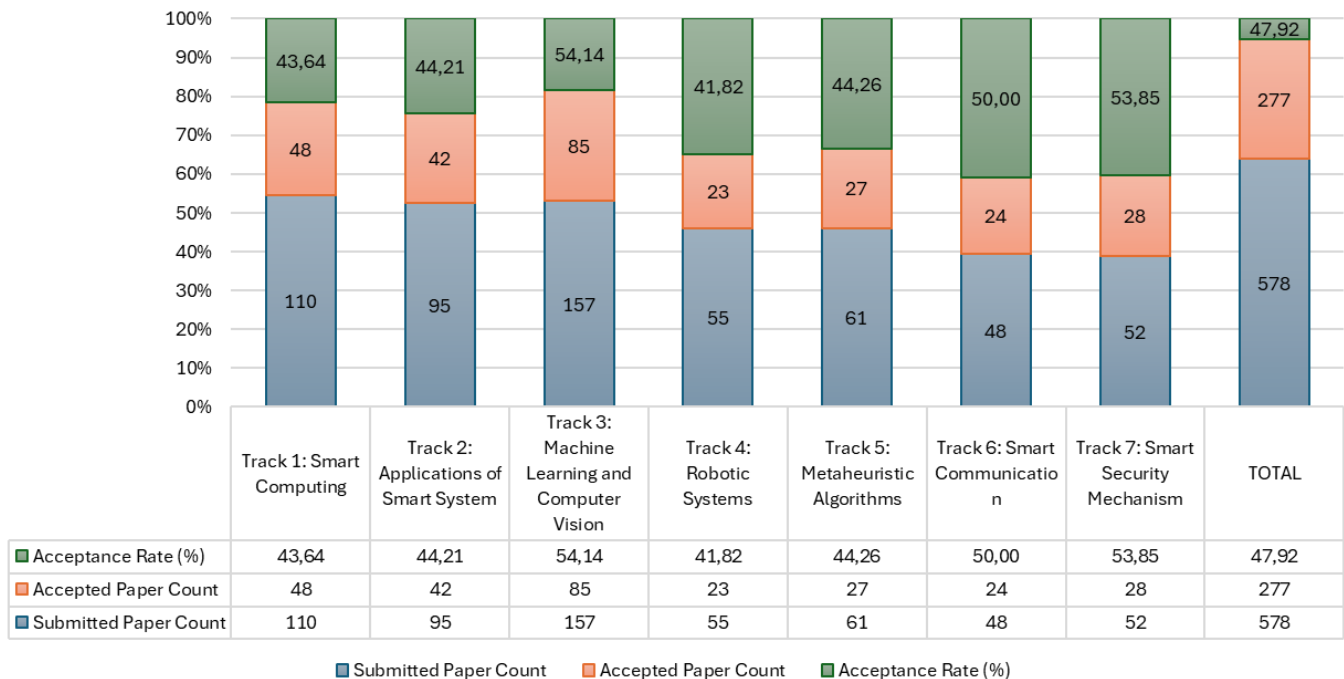
Assoc. Prof. Dr. Korhan Cengiz was born in Edirne, Turkey, in 1986. He received the BSc degrees in Electronics and Communication Engineering from Kocaeli University and Business Administration from Anadolu University, Turkey in 2008 and 2009 respectively. He took his MSc degree in Electronics and Communication 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.

**Assoc. Prof. Dr. Zaza Davitadze***Batumi Shota Rustaveli State University, Georgia***Title:** IoT Innovations in Teaching and Sciences**Short-Bio:**

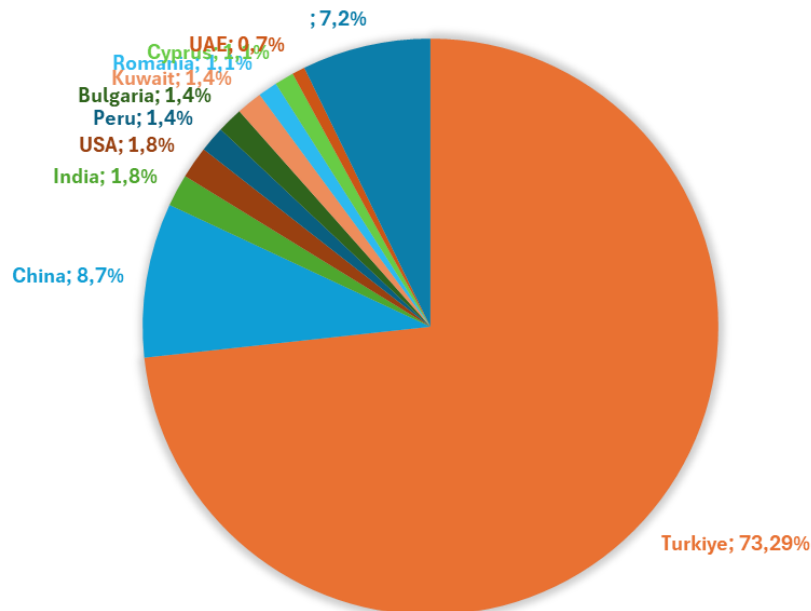
Mister Zaza Davitadze graduated from Tbilisi state University RadioPhysics and Electronics Department in 1983. He postgraduate from Moscow Lomonosov state University Quantum RadioPhysics Department in 1989. He receive PhD in direction RadioPhysics including Quantum RadioPhysics in 1994. Zaza Davitadze started his scientific and academic life at Batumi State University (BSU) in 1983 and continuing present time. After receiving PhD he was appointed to the staff Computer Sciences Department of BSU in 1994. He still works in the same department. His sphere of interest is IoT, microcontrollers, Sensors, Electronics and PC hardwire. The number of journal articles and conference proceedings is more than 30 in last 15 years. Under his mentoring was graduated more then 15 master and bachelor students at BSU in last 10 years. As a Scientist he take parts in Georgian and European Scientific Grants programs. He has been a editor of book in the fields of robotics. In 2021 Zaza Davitadze issue book "Arithmetical and Logical Bases of Personal Computers". He continues to work in the fields of Robotics, Remote controlling, IoT. Since 1998-2002 and 2002-2006 Zaza Davitadze was elected as a member of The Batumi City Council two time. He was a had of different commissions and vice chairman of Batumi City Council in period 1998-2006.

ISAS2025 Statistics

Acceptance Rate (47.92%)



Top 10 Countries by Number of Speakers



Country	Türkiye	China	India	USA	Peru	Bulgaria	Kuwait	Romania	Cyprus	UAE	Others
S. Count	203	24	5	5	4	4	4	3	3	2	2
Rate (%)	73,29%	8,66%	1,81%	1,81%	1,44%	1,44%	1,44%	1,08%	1,08%	0,72%	7,22%
Algeria, Bulgaria, China, Cyprus, Czech Republic, Iceland, India, Indonesia, Iran, Iraq, Italy, Japan, Kazakhstan, Kuwait, Libya, Lithuania, Montenegro, Palestine State, Peru, Philippines, Romania, Spain, Sri Lanka, Syria, Türkiye, Ukraine, UAE, UK, USA											

Accepted Papers

ID	Title	Author(s)	Speaker
5	Foundational Models as General-Purpose Technology: A Guide to Corporate Transformation	Ioannis Patias	Ioannis Patias
19	Integration of Artificial Intelligence and Cybersecurity for Management Information Systems	Hicran Güneş, Cemal Aktürk	Hicran Güneş
20	Detection of Diseases on Apple Leaves with Deep Learning	Hatice Bilici, Mehmet Umut Salur, Tark Talan	Mehmet Umut Salur
21	Brain Tumor Detection Using Deep Learning	Semiha Özcan, Tarık Talan	Semiha Özcan
22	Classification of Mild Cognitive Impairment via Improved Multimodal Convolutional Mixer Model	Ovidijus Grigas, Rytis Maskeliūnas	Ovidijus Grigas
23	Comparative Study Of Gradient Optimizers For Enhanced Skin Cancer Image Analysis	William Olurotimi Falana	William Olurotimi Falana
34	Real-Time Mushroom Detection and Maturity Classification Using YOLO-Tiny on Raspberry Pi Platform	Sonay Duman, Abdullah Elewi, Amina Souag	Sonay Duman
35	Effects of meteorological data on the development of net blotch of spring barley in Turkey	Recep Sinan Arslan, Nilüfer Akci, Dilara Çelik, Bahatdin Daşbaşı, Kadir Aytaç Özaydın, Teslima Daşbaşı	Recep Sinan Arslan
37	A Knowledge-Driven Approach for Enhancing Chronic Condition Accessibility with Large Language Models and Semantic Search	Harish Kanthathasan, Muditha Tissera	Harish Kanthathasan
38	Dual fuel-cell sourced wireless power transfer and load power estimation with Machine Learning	Unal Yilmaz	Unal Yilmaz
40	GREENDAI: Towards an observability tool for sustainable green distributed artificial intelligence	Jon Aguirre-Usandizaga, Raul Miñon, Ana I. Torre-Bastida, Josu Diaz-De-Arcaya, Lander Bonilla, Asier Garcia Perez, Aitor Almeida	Jon Aguirre-Usandizaga
41	Music Genre Recognition: An Explainable Approach	Tom Smith, Gelayol Golcarenenrenji	Tom Smith
48	EMPR-Balancer as an Oversampling Technique: A Case Study for Plant Disease Recognition	Ahmet Topal, Burcu Tunga	Ahmet Topal
49	Leukemia White Blood Cell Classification Using DenseNet121 Embeddings and Ensemble Learning	Tuğçe Göksu, Zeki Kuş, Musa Aydın	Tuğçe Göksu
50	Cataract Detection with YOLOv11: Hyperparameter Optimization and Performance Enhancement	Neşe Şenay, Meriç Çetin	Neşe Şenay
57	An Algorithm to Generate Synthetic Dataset for Modern Intelligent Spectrum Sensing in Cognitive Radio Networks	Md. Tofail Ahmed, Mousumi Haque, Yosuke Sugiura, Tetsuya Shimamura	Md. Tofail Ahmed
58	Post-Quantum Security for Blockchain and Healthcare Data Management: A Review	Özgür Karaduman, Zeynep Buse Gürbüz, Muharrem Tuncay Gençoğlu, Haluk Eren	Zeynep Buse Gürbüz
59	A Framework for the Multidimensional Classification and Applications of Soft Robots	Alican Yılkırkan, M. Taylan Das, Ali Kılıç	Alican Yılkırkan
60	AI-Driven Project Portfolio Optimization: Balancing Innovation and Operations in Post-Pandemic Organizations	Ashrafur Rahman Nabil, Kazi Rezwana Alam, Jesmin Ul Zannat Kabir, Reaz Uddin Rayhan, MD Nazim Akther, Sonay Duman	Sonay Duman
61	An Optimized Watermarking Technique for Medical Images using Dimension Reduction	Zeynep Çetinkaya, Fahrettin Horasan	Zeynep Çetinkaya
65	Comparative study between Advanced Machine Learning and Deep Learning Approaches combined in an Advanced hybrid framework for Estimating Thermal Hydraulic Performance in Heat Exchangers	Ali A. H. Karah Bash, Ahmad Aboul Khail	Ali A. H. Karah Bash
67	Web Implementation of Sentiment Analysis for Bulgarian Texts: A Case Study Across Domains	Daniela Petrova	Daniela Petrova
71	Optimizing Air Freight Forecasting: The Integration of Machine Learning and Empirical Mode Decomposition	Hasan Emin Gürler, Mehmet Özçalıcı	Hasan Emin Gürler

ID	Title	Author(s)	Speaker
79	Model Predictive Control for Reliable and Efficient Path Tracking in Autonomous Vehicles	İbrahim Toy, Abdullah Yusefi, Akif Durdu	İbrahim Toy
80	Real-Time Safety Helmets and Vests Detection in Industrial Environments Using YOLO	Mamady Cheick Souare, İbrahim Toy, Abdullah Yusefi, Akif Durdu	Mamady Cheick Souare
92	DEVELOPMENT OF A SELF-SERVE DATA MESH INFRASTRUCTURE	Gizem Kılınç Aydın, Salih Göktuğ Köse, Ceren Ulus, Mehmet Fatih Akay	Ceren Ulus
93	AI-Based CRM Platforms for Transforming Customer Experience with Distributed Web Systems	Vassil Milev, Marian Ileana, Pavel Petrov	Marian Ileana
94	Cosmetics Logos Feature Detection: A Deep Learning Approach Using VAE	Nasim Ahmadzadeh Nobari Azar, Mohammad Karami	Nasim Ahmadzadeh Nobari Azar
106	A Fuzzy Inference System-Based Decision Support System Proposal for Subcontractor Performance Evaluation in 3PL Companies	Selcuk Cebi, Ersin Sengul	Ersin Sengul
107	Robust Maritime Search and Rescue with UAVs on the Edge	Morgan Woodford, Gelayol Golcarenenrenji	Morgan Woodford
108	Strategies for Class Imbalance in Emotion Analysis: A Comparative Evaluation	Giray Yıldırım, Metin Soyalp, Mehmet Keskinöz	Giray Yıldırım
110	Energy Efficiency and MAC Protocols in Wireless Sensor Networks: Terrestrial, UAV-Assisted, and Underwater Applications	Sami Açık, Selahattin Kosunalp	Sami Açık
112	Institutionalizing Technological Foresight: A Multi Domain Evaluation Model for Strategic Investment Decision Support	Doruk Can Mutlu, Hasan Tolga Ünal, Arif Furkan Mendi, Ömer Özkan, Mehmet Akif Nacar	Doruk Can Mutlu
113	MSCABINET: A Lightweight Attention-Enhanced CNN-BiLSTM Model for EEG-Based Emotion Recognition	Nasim Ahmadzadeh Nobari Azar	Nasim Ahmadzadeh Nobari Azar
114	Improving CRM Functionality in Medical Systems through Blockchain and Distributed Web Systems	Marian Ileana, Pavel Petrov, Vassil Milev	Marian Ileana
115	Design of Input Shapers for Residual Vibration Control of Flexible Systems and Optimization with Genetic Algorithm	Ferhat Kaya, Çağlar Conker	Ferhat Kaya
116	Efficient Cross-Lingual Transfer for Language Models	Akshesh Shah	Akshesh Shah
117	Evaluating Convolutional and U-Net Architectures for Tonnetz-Based Music Generation and Prediction	Akshesh Shah	Akshesh Shah
118	Real-Time Audio Spectrogram Inpainting	Akshesh Shah	Akshesh Shah
119	Hybrid Chaotic Attention Mechanism for 2D Image Classification in Noisy Environments	Noor Baha Aldin	Noor Baha Aldin
120	Quantum Distributed Computing for Educational Innovation: Challenges, Opportunities, and Future Perspectives	Marian Ileana, Pavel Petrov, Vassil Milev	Marian Ileana
121	Assessing the Importance of Key Restaurant Review Topics Using TF-IDF and Entropy Method	Mustafa Demirbilek	Mustafa Demirbilek
122	Walrus Optimization-Enhanced Machine Learning Intrusion Detection for the Internet of Medical Things	Muhammed Furkan Gül, Halit Bakır	Muhammed Furkan Gül
124	Solar irradiance estimation using a hybrid deep learning model with metaheuristic algorithms	Rafiq Asghar, Michele Quercio, Lorenzo Sabino, Davide Milillo, Assia Mahrouch, Francesco Riganti Fulginei	Rafiq Asghar
126	Enhanced YOLOv11n with Ghost Convolution for Automatic Detection of Pistachio Leaf Disease	Bunyamin Dikici, Hakan Açıköz, Serkan Ozbay	Bunyamin Dikici
127	Real-time Image Generation Utilizing ARM SBC Architecture	Igor Culafic, Tomo Popovic, Ivan Jovovic, Stevan Cakic	Igor Culafic
128	Convolutional Neural Network for Joint Detection and Material Classification of Breast Tumors	İbrahim Halil Bayat, Semih Doğu, İbrahim Akduman	İbrahim Halil Bayat
129	Design of a PID Controller with a Predictive Term for Voltage Level Regulation in a Power System	Erdinc Sahin, Mustafa Sinasi Ayas	Erdinc Sahin

ID	Title	Author(s)	Speaker
130	Quantum ARQ Protocols for Ultra Reliable Low Latency Communications	Mahmut Aykaç	Mahmut Aykaç
131	Photovoltaic-supported Battery Charger System with Low-side Two Switch based Buck-Boost Converter for Electric Vehicles	Mustafa İnci	Mustafa İnci
147	Source Stratified Machine Learning: Balancing Computational Efficiency and Performance in Cardiovascular Risk Prediction	Pınar Uskaner Hepsağ	Pınar Uskaner Hepsağ
148	Log-Based Malware Detection: A Smart Dynamic Security Mechanism via Machine Learning	Göksun Önal, Mesut Güven	Göksun Önal
150	A Systematic Investigation of Metaheuristic Algorithms in Smart Manufacturing through Topic Modeling and Fuzzy C-Means Clustering	Nazmiye Eligüznel	Nazmiye Eligüznel
151	Determining fire station locations using the reverse fixed centered K-means algorithm considering existing stations	Ertugrul Gul, Murat Tasyurek	Ertugrul Gul
152	A Smart Decision Support Approach for Sustainable Waste Bank Location Using P-median and P-center Models: A Case Study in Gaziantep, Şehitkamil	Hüseyin Başaran, Zeynep Yüksel, İbrahim Miraç Eligüznel, Süleyman Mete	Hüseyin Başaran
153	Scenario-Based Approach to Smart Planning in Post-Disaster Logistics: A Case Study in Adana	Asena Sağdıç, Zeynep Yüksel, Süleyman Mete	Zeynep Yüksel
154	Enhancing Retail Operations Through Remote Management of POS Terminals	Busra Ozdenizci Kose , Hakan Uluoz, Ulas Baysalli, Vedat Coskun	Busra Ozdenizci Kose
155	Bone Fracture Classification Using Deep Learning Models with Transfer Learning	Ahmet İlhan, Sedra Alialsagher Mohammed, Boran Sekeroglu, Omid Mirzaei	Sedra Alialsagher Mohammed
156	Advancements in Weapon Detection Systems: Leveraging Deep Learning for Enhanced Security	Kadir Tekindor, Enes Ayan	Kadir Tekindor
157	The Effect of Selfish Nodes on the Performance of Event-Based Trust Management In VANETS	İpek Abasıkeleş Turgut	İpek Abasıkeleş Turgut
158	Comparative Analysis of CNN and LSTM for Channel Distribution Learning and Classification in Beyond 5G	Osman Kaya, Afm Shahan Shah	Osman Kaya
167	Lean Six Sigma for Industry 4.0 to Improve Sustainability and Supply Chain Efficiency in Manufacturing Companies: A Systematic Review	Jean Meller Cochachin Gutierrez, Melva Neida Magallanes Correa, Juan Manuel Vasquez Espinoza, Jose Cornejo	Jose Cornejo
168	Mechatronics on Evolutionary Biology, Bio-inspiration and Biomimetics Turned into Space Technologies for the Moon	Jose Cornejo	Jose Cornejo
169	Health Automation with Supply Chain Management using IoT and Blockchain for Pharmaceutical Industry: A Scoping Review	Christian Daniel Romani Carbajal, Gabriel Charly León Cueva , Jose Cornejo	Jose Cornejo
170	Skin Cancer Detection through Mobile Applications using Artificial Intelligence: Innovative review	Selso Noe Sanchez Neyra, Enrique Sanchez Portugal, Jose Cornejo	Jose Cornejo
178	Detection and Analysis of Command and Control (C2) Connections in Cybersecurity with C2Sentinel	Amil Mansurov, Önder Yakut	Amil Mansurov
179	The Role of Green Energy in Smart Cities: Blockchain-Based Strategies	Büşra Tural Demir, Zeynep Destan, Zeynep Örpek	Büşra Tural Demir
180	Enhancing Business Process Anomaly Detection with Sequence Capturing Hybrid Autoencoders	Teoman Berkay Ayaz, Alper Özcan, Akhan Akbulut	Teoman Berkay Ayaz
181	Spider Wasp Optimizer-based PID Control Approach for Temperature Management In Continuous Stirred Tank Reactors	Davut Izci, Mostafa Jabari, Serdar Ekinci, Raymond Ghandour, Mohammad Salman	Raymond Ghandour
183	Hacking Of Autonomous Vehicles	Ahmet Hakan İnce, Rahime Yıldırım	Rahime Yıldırım
184	Toward Autonomous Systems: A Comparative Analytic Hierarchy Process Evaluation of Diesel, Electric, and Autonomous Forklifts	Muhammed İdris Aktaş, Zeynep Didem Unutmaz Durmuşoğlu, Eren Özceylan	Muhammed İdris Aktaş

ID	Title	Author(s)	Speaker
185	Enhanced Intrusion Detection for IoT Networks Using Machine Learning Approach	Mohammed AL-Hubaishi, Mehdi Hachana	Mehdi Hachana
186	Design and Simulation of AI based Threat-Detecting Robot for Empowering Border Security	Kerem Uludağ, Bekir Akhan, Emre Değirmenci, Atajan Rovshenov	Kerem Uludağ
187	DDoS Detection in Network Traffic Using LightGBM: A Study on the CICIDS2018 Dataset	Selçuk Kavut, Mustafa Furkan Ceylan, Faruk Karadeniz	Mustafa Furkan Ceylan
189	Automated Identification of Brain Disorders Utilizing Electroencephalogram Signals and Advanced Deep Learning Methodologies: A Review	Dawood Salman, Qais Al-Gayem	Dawood Salman
201	The Transformative Power of AI in Cybersecurity	Mohammed Adnan Ahmed Ahmed, Mohammed AL-Hubaishi	Mohammed Adnan Ahmed Ahmed
202	Multi-Class Machine Learning Models for Predicting Order Cancellations and Returns in E-Commerce	Zehra Sude Sarı, Hasan Hüseyin Yurdagül, Batuhan Taşkapı, Gökay Dağdaş, Mehmet Fatih Akay	Zehra Sude Sarı
203	Comparative Analysis of PID Tuning Methods for DC Motor Speed Control	Sercan Şahal, Zafer Ortatepe	Sercan Şahal
204	Comparative Analysis of Machine Learning-Based Indoor Positioning for AMRs Using Wi-Fi RSSI Data	Osman Taşbaşı, Didem Özüpek Taş, Muhammed Oğuz Taş	Osman Taşbaşı
205	Multi-Agent Collaboration for Hallucination Correction in Complaint Management	Onur Mert Çeldir, Gökhan Dalkılıç	Onur Mert Çeldir
206	Early Hunter: An Integrated Platform for Automated Vulnerability Detection and Security Monitoring	Busra Ozdenizci Kose, Tamer Cal, Mahmut Zan, Halil Dikici, Vedat Coskun	Busra Ozdenizci Kose
218	Machine Learning for Precision Medicine: Optimizing Treatment Selection and Reducing Diagnostic Errors	Mohanad Alayedı, Mohammed AL-Hubaishi	Mohanad Alayedı
219	A Hybrid Recommender System using Louvain Community Detection in Complex Networks	Geethika Sindhu Balla, Srilatha Tokala, Murali Krishna Enduri	Geethika Sindhu Balla
220	SAFEROUTE: Child Tracking System on Safe Route	Güneş Kahiloğulları, Gizem Yıldız, Önder Yakut	Güneş Kahiloğulları
221	Design of PI-PDN Controlled DFIG System via a New Objective Function and Starfish Optimizer	Davut Izci, Fatma Artun, Serdar Ekinci, Raymond Ghandour, Mohammad Salman, Ehab Ghith	Raymond Ghandour
222	Optimizing Machine Learning Models based on Hyperparameter Tuning for Arabic Fake News Detection	Rabia Al Mamlook, Tiba Abdulhameed, Mossa Alsoussia, Tasnim Gharaibeh, Amira Talaat, Mohammad El-Yabroudi, Faisal Mohamed, Najat Elgeberi	Rabia Al Mamlook
224	Eco-Defender: Detection of aphids using YOLOV5 model and their eradication using a precise laser equipped on an autonomous rover	Tejaswini B, Ankitha K, Vamshi J Gowda, Sathvik T S Nag, Nivedita Kasturi	Tejaswini B
228	Bidirectional Isolated Electric Vehicle Charger Utilizing Three-Phase Matrix Converter	Mossab Al Aryan, Ahmet Mete Vural	Mossab Al Aryan
229	Prediction of Wind Speed Using Tree-Based Ensemble Algorithms: CatBoost, HistGBM, and XGBoost	İlker Mert	İlker Mert
232	SightNavigator: AI-Powered Smart Glasses to Enable Independent Shopping for Visually Impaired Individuals	Maha Faisal, Hadeel AlQouz	Hadeel AlQouz
233	Signal Verification with Multi Modal Language Model	Üsame Durak, Nedim Kıvanç, Oğuzcan Sarıbiyık, Hüseyin Daş	Nedim Kıvanç
234	Application Of Machine Learning In The Prediction Of Chronic Kidney Disease	Mohammed Sayim Khalil, Khadija Brik, Hiba El Quassimi	Hiba El Quassimi
235	Real-Time Turkish Video Text Detection and Recognition	Doğukan Uykun, Hakkı Alparslan İlgin, Memduh Köse	Doğukan Uykun
237	Early Detection of Physical Fatigue via Multimodal Biomedical Signals with Supervised Learning Algorithms	İsmail Çalıkuşu, Uğur Fidan	İsmail Çalıkuşu
248	Estimation of the voltage value at the maximum power point using the Levenberg-Marquardt algorithm	Muhammed Fatih Çorapsız, Mehmet Yılmaz	Mehmet Yılmaz

ID	Title	Author(s)	Speaker
249	A Decision Support System for Developing Marketing Strategy in Pharmaceutical Industry	Irem Ucal Sari, Yeliz Unal Yilmaz	Irem Ucal Sari
250	Comparative Analysis of Artificial Rabbit Optimization and Ox Optimization Based Feature Selection for Parkinson's Disease Diagnosis	Mehmet Umut Salur	Mehmet Umut Salur
251	Sentiment Analysis of Turkish Hotel Reviews: A Tripadvisor Study Case	Ümmügülsüm Mengutaycı	Ümmügülsüm Mengutaycı
252	Applications of Heuristic Optimization Algorithms in Distribution and Power Transformer Design: A Survey	Mohammad Hassan Hashemi, Emre Yeniyl, Ugur Buyuktuncer	Mohammad Hassan Hashemi
253	Development of Machine Learning Based Price Quote Prediction Models for Electronic Payment and Money Institutions	Zehra Sude Sarı, Hasan Hüseyin Yurdağül, Hüseyin Şen, Ceren Ulus, Mehmet Fatih Akay, Nazlı Yusufoglu	Zehra Sude Sarı
254	Trajectory Tracking with Zero-Shot Reinforcement Learning on Aerial Robots: A Real-World Evaluation	Ali Tahir Karasahin	Ali Tahir Karasahin
255	Automated Design of Attention-Integrated CNN Architectures	Mehmet Zahid Akpolat, M.Fatih Demirci	Mehmet Zahid Akpolat
266	Eleven-Level Switched Capacitor Multilevel Inverter Topology for Photovoltaic Applications	Murat Karakılıç	Murat Karakılıç
267	Data Collection Tools in Faculty Evaluation Sentiment Analysis	Janette Tanquis, Larmie Feliscuzo, Cherry Lyn Sta Romana	Janette Tanquis
268	Comparative Analysis of Optimizers in Lumbar Spine MRI Segmentation Using ResNet50-based U-Net	Yasemin Sarı, Nesrin Aydın Atasoy	Nesrin Aydın Atasoy
269	Multi-layer Secure Authentication Using Morse Code and Eye Blink Detection	Sushmitha S, Prasad B Honnavalli, Sapna V.M	Sushmitha S
270	High-Precision Agricultural Analysis via YOLOv9 and U-Net on Drone Imagery	Mehmet Metin Ahves, Ahmet Fethi Bayer, Ipek Neslihan Alpugan, Behiye Sahin	Behiye Sahin
271	Integrating Drones and Deep Learning for Automated Detection of Invasive Species	Fatma Nur Boratav, Kemal Batu Halas, Behiye Sahin, Mehmet Metin Bogdan	Behiye Sahin
272	A Dual-Platform Human Detection Framework Using Remote Sensing and Deep Learning	Melanie Yveta Pokorna, Rebeka Kajetan Reznicek, Gertruda Ambroz Navratilova, Behiye Sahin	Behiye Sahin
273	Solar Panel Damage Detection Using a Drone and YOLO-Supported Artificial Intelligence Model	Branislava Tatiana Pavlikova, Kristiana Amanda Ozolins, Klaudijs Patriks Eglite, Muhammed Nurullah Avran	Muhammed Nurullah Avran
274	Drone-Based Real-Time Traffic Analysis: Object Tracking and Speed Measurement with YOLO, DeepSORT and Hybrid Speed Calculation	Zigmars Karina Rudzitis, Jaroslav Alexej Sokolova, Muhammed Nurullah Avran, Klaudijs Patriks Eglite	Muhammed Nurullah Avran
275	Robust Pothole Detection Using YOLOv5 and SSD: Accuracy, Speed, and Deployment Trade-offs	Mojmir Kucera, Astrida Dina Krumins, Kristiana Amanda Ozolins, Muhammed Nurullah Avran	Muhammed Nurullah Avran
276	Drone-Based Real-Time Traffic Analysis with YOLOv8 and ByteTrack	Robert Waltraud Teufel, Hansel Friede Achterberg, Fabian Kornelia Hildebrand, Zeynep Sahutoglu	Zeynep Sahutoglu
277	Lightweight XAI-Enhanced CNN for Fashion-MNIST Classification on Edge Devices	Sena Nisa Çakır, Mohammed AL-Hubaishi	Sena Nisa Çakır
278	High-Resolution Human Density Monitoring via UAVs Using YOLOv8 and DeepSORT	Gabi Levin Dietrich, August Tabea Schwinghammer, Robert Waltraud Teufel, Zeynep Sahutoglu	Zeynep Sahutoglu
279	An Empirical Study of YOLOv10 on Optical vs SAR Imagery for Aircraft Recognition	Irmentrud Frieda Gaertner, Babette Wibke Waxweiler, Sonnhild Camilla Fiedler, Zeynep Sahutoglu	Zeynep Sahutoglu

ID	Title	Author(s)	Speaker
280	Design and Analysis of Vivaldi Antenna Over A Wide Frequency Range	Hamdullah Öztürk	Hamdullah Öztürk
281	An AI-Based Neural Network Approach for Post-Surgical Elbow Exercise Recommendation	M Monzer Omar, Lima Ghothani, Mohanad Alayed, Mohammed Sayim Khalil	M Monzer Omar
282	Ethics and Security in the Digital World: Recommendations for Cybersecurity Strategies and Practices in Turkey	Cevat Özarpa, İsa Avcı, Yahya Zakrya Khan	Yahya Zakrya Khan
283	A Lightweight Mobile Deep Learning Framework for Real-Time Plant Disease Detection in Smart Agriculture	İsa Avcı, Murat Koca, Yahya Zakrya Khan	Yahya Zakrya Khan
289	Music Generation Using RNN-LSTM with Self-Attention Mechanism	Mahmoud Abdelalim, Mohammad Bashar, Hazem Nemer, Wisam Elmasry	Hazem Nemer
290	HeartShield: Machine Learning-Based Heart Disease Risk Prediction	Reginald Jibao, Mohammed Sayim Khalil	Reginald Jibao
291	A Hybrid LSTM Model with Feature Selection and ACO-Based Hyperparameter Optimization for Stock Price Prediction in the Banking Sector	Ümmühan Nida Erol, Serpil özer, Ayşe Tuğba Dosdoğru, Mustafa Göçken	Ümmühan Nida Erol
292	Reflection Coefficient Prediction in Triple-Layer Microwave Absorbers: A Machine Learning Perspective	Abdurrahim Nas, Sueda Kankılıç, Esin Karpaz	Abdurrahim Nas
293	Exploring AI-Based Techniques for the Generation of Synthetic Infrared Images and Their Practical Applications	Ali Berkol	Ali Berkol
294	BIOSKOP: AI based Microscope Design for Biological Survey and Object Analysis	Kerem Uludağ, Bekir Akhan, Emre Değirmenci, Atajan Rovshenov	Kerem Uludağ
295	Optimization of DC-DC Buck Converters Using ABC, GTO, and RIME Algorithms	Amina Alshekh, Azizullah Sorosh, Yahya Danayiyen	Amina Alshekh
296	Comparative Performance Analysis of ARO and NOA Algorithms in Tuning PI and FOPI Controllers for Dual Active Bridge Converters	Emirhan Yeter, Chivon Choeung, Yahya Danayiyen	Emirhan Yeter
297	Optimization of a Power Divider and Patch Antenna Array for Ku-Band Satellite Communication	Yusuf Salih Gurbet, Semih Doğu	Yusuf Salih Gurbet
316	Towards Ultra-Secure 6G Networks: A Comprehensive Review on Quantum Key Distribution Techniques and Applications	Sedat Çimen, Deniz Karhan, Merve Güllü	Sedat Çimen
319	Classification and Generation of Soliton Waves via Convolutional Neural Networks	Abdullah Aksoy, Seyma Atıcı, Enes Yiğit	Abdullah Aksoy
320	Python-Based Predictive Modeling for Agriculture: A Human-Centered Approach to Land Suitability Assessment	Zielieba Alberic Queneth Hien, Mohammed Sayim Khalil	Zielieba Alberic Queneth Hien
321	A Smart Analog Filtering Approach For Laser Range Finder Systems	Emrah Bölük, Atilla Uygur	Emrah Bölük
322	Effectiveness of Automatic Segmentation with Deep Learning in Separating Overlapping Sheet Metal Parts	Gül Sığındı, Sadettin Kapucu, Ali Kılıç	Gül Sığındı
323	Lithium Niobate-Based Single-Mode Rib Waveguide: Design and Parameter Optimization	Huriye Gencal, Mustafa Demirtaş, Umut Aydemir	Huriye Gencal
324	Development of Seam Tracking Sensor in ROS Environment	Ali Yıldız, Nurettin Gökhan Adar	Ali Yıldız
325	Federated Anomaly Detection for Fault Diagnosis Using Autoencoders	Muhammed Ali Oz, Fatih Varçın	Fatih Varçın
326	Diabetes Classification using Deep Learning With a Hybrid Data Imbalance Handling Approach	Elahe Goli, Melike Sah	Elahe Goli

ID	Title	Author(s)	Speaker
327	Early PCOS Diagnosis with Minimal Features via Explainable Machine Learning	Selahaddin Batuhan Akben, Hilal Yumrutaş	Hilal Yumrutaş
328	Optimal Location Determination of Electric Vehicle Charging Stations in Trabzon Province Using the Fox Optimizer	Adem Özlü, Taha Şükrü Baltacı, Yahya Danayiyen	Adem Özlü
329	DETECTION OF HOT SPOTS IN PV MODULES WITH THE CBAM-ENHANCED YOLO MODEL	Mehmet Fatih Bekçioğulları, Hakan Açıkgöz, Serkan Ozbay	Mehmet Fatih Bekçioğulları
330	Power Consumption Analysis of ESP32 and Arduino Nano for Low-Power Applications	Hasan Demir, Ilayda Selcuk, Atıl Emre Cosgun	Ilayda Selcuk
331	Parasite Classification in Biomedical Imaging Utilizing Vision Mamba	Kevser Cansu Yurdusever, Elif Baykal Kablan, Selen Ayas	Kevser Cansu Yurdusever
332	Design of Carbon-Based Electromagnetic Absorber Textile Material with DS-ABC Optimization	Seyma Atıcı, Abdullah Aksoy, Halil I. Akyıldız, Enes Yiğit	Seyma Atıcı
350	AI FOR CORE NETWORK IN 6G	Reyhan Dede, Nurefşan Ak, Merve Güllü, İbrahim Yazıcı, İsmail Duru	Reyhan Dede
351	Transforming Customer Relationship Management with Distributed Quantum Computing Opportunities and Challenges	Marian Ileana, Pavel Petrov, Vassil Milev	Marian Ileana
352	Classification of Network Anomalies Using a Multilayer Perceptron	Oleksandr Kushnerov, Yevhen Melenti, Serhii Yevseiev, Vladyslav Sokol, Stanislav Milevskyi, Sergii Dunaiev	Oleksandr Kushnerov
353	Fuel Consumption Prediction from Car Images Using CNN-Based Deep and Transfer Learning for Energy Efficiency and Sustainability	Mehmet Ali Bilici, Ramazan Toklu, Aymane El Khader, Pelin Canbay	Aymane El Khader
354	Clinical Verification of AI Models for Radiology Report Annotation Using a Physician-Annotated MIMIC-CXR	Ömer Faruk Özüyağlı, Emre Demirbaş, Buse Nur Ileri, Ebubekir Alatepe, Yasin Durusoy, M.Fatih Demirci	Ömer Faruk Özüyağlı
355	Empirical Evaluation of Various Metaheuristics for Efficient Feature Selection in High-Dimensional Bioinformatics Data	Esra Çelik, Seda Erden Dertli, Deniz Dal	Esra Çelik
356	Benchmark Design, Construction and Real-Time Control for Pendulum on A Cart System	Muhterem Alper Kaplan, Mehmet Arıcı	Muhterem Alper Kaplan
357	Optimum Battery Design for a Residential Site with Rooftop PV Systems: A Case Study in Şanlıurfa Province in the Southeastern Region of Türkiye	Cihan Ayhancı, Bedir Kekezoğlu, Ali Durusu	Cihan Ayhancı
358	Design of Fuzzy PID Controller with Big Bang Big Crunch Optimization Algorithm and Application to Quarter Car Suspension System	Gökberk Ay, Barış Samim Nesimioğlu	Gökberk Ay
359	Automated Code Review Using Large Language Models with Symbolic Reasoning	Büşra İçöz, Göksel Biricik	Büşra İçöz
360	Analysis and Comparison of Tree-Based Shallow Learning Methods for Forecasting Solar Energy Production	Medine Gülmez, Gökhan Yüksek, Alkan Alkaya	Medine Gülmez
361	A Machine Learning Framework for Predicting Lithium-Ion Battery State of Health Based on Operational Degradation Indicators	Fatma Avli Fırış, Gonca Uslu Özküçük	Fatma Avli Fırış
362	Enhancing Second-Life Battery Deployment Smart Solutions for Sustainable Energy Storage	Fatma Avli Fırış	Fatma Avli Fırış
364	Clustering of Countries Based on Happiness Index	İlker Gür, Ferhat Atasoy	İlker Gür
365	Compression of Convolutional Neural Networks Employing Tensor Train and High Dimensional Model Representation	Berna Yılmaz, Süha Tuna	Berna Yılmaz
366	Real Estate Price Estimation with AI: A Hybrid Approach Combining Clustering and Machine Learning	Hatice Okurlar, Yunus Eroğlu	Hatice Okurlar

ID	Title	Author(s)	Speaker
367	Fake News Detection on Social Media Data using Community Notes with Machine Learning	Elifnaz Arıcı, Mehmetcan Bozkuş, Sultan Zeybek	Elifnaz Arıcı
368	Addressing Time Delays in Blood Glucose Regulation for T1DM Using a PD Controller and Smith Predictor Method	Ender Kurnaz, Ömer Aydoğdu	Ender Kurnaz
369	Plastik Enjeksiyon Kalıplamada Yolluk Giriş Çaplarının Akış Uzunluğu Üzerine Etkisinin İncelenmesi	Murat Gülbay, Erdal Öztürk	Erdal Öztürk
370	Autoencoder-Based Anomaly Detection and Analysis in Log Data Generated in Cloud Systems Using Natural Language Processing	İlayda Ayvaz, Işıl Karabey Aksakallı, Mehmet Baygın	İlayda Ayvaz
377	Merkle Tree-Enhanced ECDH Mutual Authentication for Secure and Lightweight IoT Communication	Süleyman Yiğit Kaygısız, Gökhan Dalkılıç	Süleyman Yiğit Kaygısız
378	Remote Control and Monitoring Protocols for PLC and HMI Systems: A Case Study of MODBUS, WMI and VNC	Ercan Aykut, Kübra Erdoğan, Sena Nur Benli, M. Cihat Mumcu, İzzet Yavuz	Ercan Aykut
379	Remote Sensing Scene Image Classification with Swin Transformer-Based Transfer Learning	Elif Kanca Gulsoy, Tolgahan Gulsoy, Selen Ayas, Elif Baykal Kablan	Elif Kanca Gulsoy
380	Advancing Colorectal Polyp Detection and Segmentation Through YOLOv11 Architecture	Tolgahan Gulsoy, Elif Kanca Gulsoy, Elif Baykal Kablan, Selen Ayas	Tolgahan Gulsoy
381	Enhancing Hyperspectral and Multispectral Image Fusion Using High Dimensional Model Representation	Efe Kahraman, Süha Tuna	Efe Kahraman
382	A Rapid Prototyping Approach for 3D-Printed Horn Antennas in X-Band Applications	Mahmut Demirok, Mohammadreza Asadi, Semih Doğu	Mahmut Demirok
383	IoT-Cloud Based System for Warehouse Management: A Conceptual Framework	Khaoula Sahraoui, Samia Aitouche, Noha Mostafa, Karima Aksa	Khaoula Sahraoui
391	Using Series Expansion Instead of Nonlinear Function in FPGA Implementation of Memristive Hindmarsh–Rose Neuron Model	Bekir Şıvga, Nimet Korkmaz	Bekir Şıvga
392	Research on Maximizing System Profit in Pumped Storage Hydroelectric Power Plants	Tuğçe Yeşilyurt Kurnaz, Musa Aydın	Tuğçe Yeşilyurt Kurnaz
393	Efficient FCOS Model for Fire and Smoke Detection	Ekrem Yıldız, Mehmet Keskinöz	Ekrem Yıldız
394	Detecting Spam Comments in Product Reviews on E-Commerce Websites	Selin Sude Atalı, Betül Kozlucalı, Sultan Zeybek	Selin Sude Atalı
395	Radiomics-based HCC detection with the entire Liver MRI using nature-inspired feature selection algorithms	Batuhan Ünlü, Turgay İbrikçi, Funda Raziye Mert	Batuhan Ünlü
396	Estimating Tsunami Run-Up Triggered by Landslides Using Support Vector Machine	Selçuk Tokgöz, Mustafa Açıkkar, Baran Aydın	Selçuk Tokgöz
397	Comparative Performance Analysis of ROS 2 Local Controllers on an Autonomous Mobile Robot	Özcan Koşar, Cihat Talat Akpınar, Akif Durdu	Özcan Koşar
398	Application of AI in Gamified Learning Objects for Cybersecurity Forensics	Milen Sotirov, Valentina Petrova, Miroslav Tsvetkov	Milen Sotirov
399	Fault Prediction in Energy Systems: Telemetric Data and Machine Learning Approaches	Hasan Hüseyin Yurdağül, Umut Zaim, Adem Seller, Hatice Özdemir, Gözde Uyğur, Mehmet Fatih Akay	Hasan Hüseyin Yurdağül
418	Deep Learning versus Machine Learning for Music Genre Classification: A Dual-Dataset Evaluation	Kadir Kesimal, Mehmet Eren Reyhanlıoğlu, Hikmetcan Özcan	Kadir Kesimal
419	GWO-WOA-AOA: Multistage Hybrid Meta-heuristic Optimization Approach	Timur Lale	Timur Lale
421	Iterative Semantic Refinement: A Vision Language Model-Driven Approach to Auto-Regressive Image Editing	Ege Yavuzcan, Ömer Kuş, Abdurrahman Gumus	Abdurrahman Gumus
422	High-Frequency Link Voltage Multiplexing for Multi-Level Inverters with Optimized Transformer Windings	Hasan Hataş	Hasan Hataş

ID	Title	Author(s)	Speaker
423	Exploring Digital Mobile Forensics in 5G: A Comprehensive Survey on Security, Countermeasures, and Proactive Forensic Approaches	Hitesh B B, Himanshu Srivastava, Radhika M Hirannaiah, Prasad B Honnavalli	Hitesh B B
424	Deep Learning-Based Temperature Distribution Estimation for Microwave Hyperthermia Applications	Yusuf Salih Gurbet, Hulusi Önal, Semih Doğu	Yusuf Salih Gurbet
425	Ensemble Learning for Predicting AI Content Domination in Global Digital Media Sectors (2020–2025)	Muhammad Athallah Zahran Sulistiono, Muhammad Abdul Aziz, Hasri Akbar Awal Rozaq, Oktay Yıldız	Muhammad Athallah Zahran Sulistiono
437	Real-Time Classification of Operational Human Movements using YOLOv8-Pose and Feed-Forward Neural Networks	Deniz Eryılmaz, Ersin Alaybeyoğlu	Ersin Alaybeyoğlu
444	Aspect Based Sentiment Analysis of Job reviews	Rithwik B, Darshith Srikanth, Chandra Priya, Bhodhitha K S, Saritha K	Darshith Srikanth
448	Smart and Innovative Approaches in Fault Detection Mechanisms of PV System	Mehmet Hasır, Alper Nabi Akpolat, Kürşat Ayan	Mehmet Hasır
449	Görüntü İşleme Ve Termal Veri Füzyonuna Dayalı Gerçek Zamanlı Akıllı Pişirme Sistemi	Kadir Yağcı, Ramazan Aldemir, Nurullah Öztürk	Kadir Yağcı
452	A Hybrid Approach Combining Neural Networks and Signal Processing for Indoor Temperature Detection Using Plants' Bioelectric Potential	Hasri Akbar Awal Rozaq, Eren Mert Özen, Muhammed Kürşat Altıparmak, Oktay Yıldız	Hasri Akbar Awal Rozaq
455	A Dynamic TOPSIS-based Handover Decision Algorithm in Ultra-Dense Mobile Heterogeneous Networks	Emin Tarik Iseri, Ibraheem Shayea	Emin Tarik Iseri
456	Image Enlargement technique using HDMR with Lagrange Interpolation	Sena Kaçar, Burcu Tunga, Mehmet Alper Tunga	Sena Kaçar
457	A Context-Aware, AI-Driven Load Balancing Framework for Incident Escalation in SOC's	Ahmed AbuAziz, Baris Celiktas	Ahmed AbuAziz
458	Multi-Method Text Summarization: Evaluating Extractive and BART-Based Approaches on CNN/Daily Mail	Yasin İnal, Gokhan Bakal, Muhammed Esit	Gokhan Bakal
459	Artificial Intelligence Enhanced Smart Tea Harvester	Ahmet Hakan İnce, Hilal Yıldız Bayrak, Davut Tarhan	Davut Tarhan
462	MH-NAIS: A Multi-Head Attention Extension of the Neural Attentive Item Similarity Model	Esra Kayaalp, Mehmet Keskinöz	Esra Kayaalp
463	Design and Evaluation of a TIDDD Controller with Gorilla Troops Optimization in FES Systems	Furkan Heybetli, Mustafa Sinasi Ayas	Furkan Heybetli
464	Benchmarking CNN Architectures for Eye Disease Detection with Transfer Learning Techniques	Tolgahan Keleş, Muhammet Ali Aykanat, Rifat Kurban	Tolgahan Keleş
466	Semantic Guided Autoregressive Diffusion Based Data Augmentation Using Visual Instructions	Ege Yavuzcan, Ömer Kuş, Abdurrahman Gumus	Abdurrahman Gumus
469	Optimizing Accuracy and Reliability in Power Load Forecasting Using a Data-Driven RF and LSTM Hybrid Framework	Davut Ari, Mehmet Burukanlı	Davut Ari
470	Real-Time Stress Detection Using Webcam-Based Physiological Signals and Interpretable ML	Iman Elawady, Ahmet Reşit Kavsaoğlu	Iman Elawady
471	A Comparative Study of Classical Spectral and Spatial Feature Extraction Methods for Fatigue Detection via EEG Signals	Arslan Mohammad Zahid, Yavuz Giray Subaşı, Aysa Jafarifarmand	Arslan Mohammad Zahid
472	Face Mesh Özelliklerine Dayalı Derin Öğrenme ile Dikkat-Duygu-Yorgunluk Tespiti	Emre Öz, Ahmet Emir Belkan, Arif Emre Yaman, Kadir Gümüş, Alperen Karabudak, Selma Yılmazyıldız Kayaarma	Emre Öz
473	Kemik Kırığı Sınıflandırması için Derin Öğrenme Mimarilerinin Karşılaştırmalı Analizi	Mehmet Samet Yuşan, Ertan Bütün	Mehmet Samet Yuşan
474	Evolution of Smart Manufacturing Systems: The Role and Future of Industry 4.0 Technologies	Esra Çelik	Esra Çelik

ID	Title	Author(s)	Speaker
475	The Impact of Dimensionality Reduction Techniques on Classification Performance in Dry Bean Variety Classification Using Machine Learning	Berkay Gebeş, Durmuş Özkan Şahin	Berkay Gebeş
476	Integrating remote sensing and deep learning forecasting model: A fluid-environment interface study	Reza Hassanian, Gabriele Cavallaro, Morris Riedel	Reza Hassanian
478	Binary Classification of Coral Reefs Using Deep Learning for Enhanced Monitoring	Monday Sylvester Ogidi, Melike Sah	Monday Sylvester Ogidi
479	Metal Enjeksiyon Döküm Üretim Öncesi Üründe Meydana Gelebilecek Hataların Tahmini	Murat Gülbay, Erdal Öztürk	Erdal Öztürk
480	Importance of Soil Moisture Sensor Data In Flood Early Warning Systems	Mehmet Safa Aydın, Furkan Ayaz, Muhammed Zakir Keskin, Ersin Alaybeyoğlu, Evrim Güler, Ercan Gemici	Ersin Alaybeyoğlu
481	Detection of Water Level with Level Sensors in Bartın Stream and Its Branches and Its Integration to Flood Early Warning System	Mehmet Safa Aydın, Furkan Ayaz, Muhammed Zakir Keskin, Ersin Alaybeyoğlu, Evrim Güler, Ercan Gemici	Ersin Alaybeyoğlu
482	EcoSphere - A Nature-Inspired Approach to Smart Agriculture in Desert Regions	Mohammed Saleh, Hussain Al-Aqrabi, Samer Aoudi, Fatma Zubaydi, Usman Durrani, Mustafa Akpınar	Mohammed Saleh
483	Smart Driven Gamified Learning Experience for Promoting Student Engagement in Green Computing	Mohammed Saleh, Hussain Al-Aqrabi, Hassan Abdulmouti, Fatma Zubaydi, Zakwan Skaf, Wasif Minhas	Mohammed Saleh
484	Implementation of Cluster-Based UAV Swarm Networks for Emergency Communications	A. F. M. Shahan Shah, Mohammed Anis Oukebdane, Md. Thouhidur Rahman, Salah Uddin, Sumaiya Sultana, Ishraque Sarwar, Muhammet Ali Karabulut	Muhammet Ali Karabulut
485	Dynamic gesture recognition with data reduction and machine learning algorithms using Soli dataset	Harun Sevinç, Levent Seyfi	Harun Sevinç
486	Land Portfolio Managed Decision Support System for Renewable Energy Investments	Gökhan Uçkan, Emre Barış Dalyan, Engin Oğuzay	Gökhan Uçkan
488	Vector Similarity-Assisted ChatGPT Approach for Text Classification	Ahmet Tuğrul Bayrak, Fatma Nur Korkmaz, İsmail Utku Sayan	İsmail Utku Sayan
489	Autonomous guiding robot (AGuro): An AI Mueseum Robot for Visually Impaired Individuals	Maha Faisal, Hadeel AlQouz	Hadeel AlQouz
491	IoT-Based Energy Efficiency Management System	Yashar Parsa Gharamaleki, Kübra Erdoğan, Ercan Aykut	Kübra Erdoğan
492	Animal Images Classification with MobilNetV2	Cansu Günhan, Ahmet Hakan İnce, Fatmanur Soydaş	Fatmanur Soydaş
495	Çok Sınıflı Tehlike İşaret ve Levhalarının YOLO Modeli Kullanılarak Tespiti	Berat Bakan, Abdullah Ammar Karcioğlu	Berat Bakan
496	Innovative Approaches to Formative Assessment Processes of Primary School Students with Artificial Intelligence	Betül Yıldızhan Bora, Banu Kayınova, Yeşim Nalkesen Akın	Yeşim Nalkesen Akın
504	Design of Open-Sourced Energy Saving Module for Lifts	Alper Doruk Yıldız, Elif Naz Seyyar, Doruk Sezer, Ali Tunçak, Atajan Rovshenov	Alper Doruk Yıldız
505	Machine Learning-Based Antenna Selection and Secrecy Capacity Analysis	Burak Erdurak, Eylem Erdoğan, Filiz Gürkan	Burak Erdurak
506	Arduino-Based Indoor Navigation System with Finger Print Method	Atıl Emre Coşgun, Hasan Demir, Bilal Şenol	Atıl Emre Coşgun
508	Adaptive Control for Target and Projectile Motion Problem with Disturbance Effect	Selim Sivrioglu	Selim Sivrioglu

ID	Title	Author(s)	Speaker
509	Healthify-Based Health Support Automation Running on Multiple Mobile Operating Systems	Gökhan Uçkan, Engin Oğuzay, Hasan Kaçar, Engin Kızılyar, Batuhan Demiray	Gökhan Uçkan
510	Channel Estimation in OFDM System Using Walrus Optimization Algorithm	Yüksel Tokur Bozkurt, Mustafa Şimşek	Yüksel Tokur Bozkurt
511	Comparison of Different Yolo Algorithms For The Detection of Camouflaged Military Targets	Ipek Atik, Sadik Önal	Ipek Atik
512	Prediction of Trash Rack Pollution in Run-Of-River Power Plants Using Artificial Neural Networks	Osman Bilgin, Kağan Konu, Hakan Açıkgöz	Osman Bilgin
513	Few-Shot and Zero-Shot Classification with Large Language Models: A Comparative Study	Ahmet Tuğrul Bayrak, İsmail Utku Sayan, Fatma Nur Korkmaz	Ahmet Tuğrul Bayrak
514	Explainable Deep Learning for Breast Cancer Diagnosis Using NODE and FT-Transformer Models: A SHAP and LIME-Based Interpretability Study	Burcak Asal	Burcak Asal
515	Interpretable House Price Prediction Using Ensemble Learning and Explainable AI Techniques	Burcak Asal	Burcak Asal
516	S-Band Uygulamaları İçin 2.3 GHz Frekansında Mikroşerit Yama Anten Tasarımı ve Analizi	Medine Begüm Güzeltaş, Yüksel Tokur Bozkurt	Medine Begüm Güzeltaş
517	Deep Learning-Based Fault Detection in Electrical Insulators Using Object Detection Models	Ipek Atik, Umit Alici, Yusuf Özdemir, Samet Özkanlı, İbrahim Halil Solak	Ipek Atik
518	Accurate Hot Spot Detection on High-Voltage Power Transmission Lines Using YOLOv8-Based Deep Learning	Ipek Atik, Anıl Özgür, Onur Dündar, Şengül İpek	Ipek Atik
520	Sentiment Analysis Dataset and Web Application for Turkish Tweets	Wisam Elmasry	Wisam Elmasry
521	Applications of Advanced Power Electronics in Smart Cities	Hasan Abumetier	Hasan Abumetier
522	Design and Optimization of Welding Defect Detection on Assembly Line Using Machine Vision System	Ismail Bogrekci, Pinar Demircioglu, Emre Benzer, Recep Uslu, Kazım Demiroz	Recep Uslu
523	Optimizing E-commerce Recommendations with Doc2Vec and GRU	Mustafa Keskin, Yunus Emre Gündoğmuş, Enis Teper, Sinan Keçeci, Emre Rençberoğlu	Mustafa Keskin
524	A Milimeter Wave Radar-Driven Approach to Real-Time Motion Recognition in Exergames	Tuğşad Öcal, Muhammet Baykara	Tuğşad Öcal
525	E-ticaret Oyunlaştırma Uygulamaları Kullanıcı Kaybı Tahmini	Onur Arda Raştak, Selçuk Açıkalın, Emre Rençberoğlu, Sinan Keçeci	Onur Arda Raştak
527	Topluluk Öğrenimi Kullanılarak E-Ticarete Perakende Satış Tahmini	Mert Güneş, Mehmet Ali Ekmiş, Emre Rençberoğlu, Mustafa Buğra Yılmaz	Mert Güneş
528	Detection and Analysis of Cyberloafing Behaviors in The Workplace: A Multi-Method Literature Review	Selahattin Demirboğa, Muhammet Baykara, Aslıhan Kılınç	Selahattin Demirboğa
529	Automatic segmentation of traumatic brain injury lesions on head CT scans using U-Net deep learning architecture	Merve Balaban, Mehmet Süleyman Yıldırım, Mesut Furkan Yazar, Elif Kır Yazar, Kadir Çorbacı, Gürkan Güneri, Erhan Arıkan, Bade Güleç, Emre Dandıl	Merve Balaban
530	Akıllı Kent Bileşenlerinin Analitik Hiyerarşi Süreci İle Değerlendirilmesi	Fatma Zehra Ateş, Muhammet Fatih Ak, Setenay Ak, Namık Kemal Öztürk	Fatma Zehra Ateş
533	Evaluation of Climate and Energy Compatibility in Smart Cities through Fuzzy Logic Approach	Setenay Ak, Muhammet Fatih Ak, Fatma Zehra Ateş	Setenay Ak
534	Defect Detection in Manufacturing: A Comparative Study of Machine Learning and Fuzzy Rule-Based Systems	Tuba Irmak	Tuba Irmak

ID	Title	Author(s)	Speaker
535	Effect of Image Resolution on CNN Classification Performance: An Experimental Study on Sunflower Seed Classification	Hakan Aktaş	Hakan Aktaş
536	Prediction of Depression Severity by Applying Machine Learning to Blood Biomarkers	Rahmi Kavak, Selma Ayşe Özel, Özgür Yılmaz	Rahmi Kavak
537	Research on the Optimal Planting Strategy of Crops Based on Simulated Annealing Algorithm	Xiaolong Li, Xinfang Zhang, Xue Xiong	Xiaolong Li
538	Method of Synthesis of Linguistic Models of Slow Coking Unit Coking Reactors in Fuzzy Environment	Baktygul Assanova, Batyr Orazbayev, Zhanna Shangitova, Zhadyra Moldasheva, Kulman Orazbayeva, Dinara Kaibassova	Baktygul Assanova
539	Comprehensive Application of Formal Verification, Static Analysis, and Dynamic Testing of Smart Contracts in Blockchain Financial Security	Min Hua, Fulei Wang, Wen Li	Min Hua
540	The Impact of Cloud Computing Technologies on Advancing Digital Literacy for Rural Revitalization in the Digital Economy	Tingting Rao, Tingting Xu	Tingting Rao
541	A Review and Outlook of Distribution Network Restoration Research toward Power CPS Resilience Enhancement	Jianming Jiang, Chunxiang Liu	Jianming Jiang
543	Artificial Intelligence-Driven Financial Market Trend Forecasting and Quantitative Portfolio Dynamic Adjustment Strategy Design	Shubin Yin	Shubin Yin
544	Evaluating Geologic Uncertainty and Its Impact on Log Interpretation for Precise Shale Gas Reservoir Assessment	Wen Cao, Meng Tian, Yang He, Linwei He	Wen Cao
545	An Investigation into AI-driven real-time Network Traffic Classification and Anomaly Detection in Complex Network Environments	Xinxia Li	Xinxia Li
546	Creating an Intelligent Rescheduling System with Stochastic Reverse Learning and Chaos Mapping in Real-Time Scenarios	Chaoyong Wu	Chaoyong Wu
552	Distributed Secondary Control for Enhanced Stability in Islanded Microgrids: An application of Multi-Agent Systems	Zheng Fan	Zheng Fan
553	Research on the dynamic capture and analysis system of symphony stage performance based on deep convolutional neural network (DCNN) and computer vision technology	Ruiqing Tang	Ruiqing Tang
556	Design and Practice of Personalized Guidance System Based on Artificial Intelligence in Sports Training	Xianghong Meng, Jing Zhu, Jun Zheng	Xianghong Meng
557	A Gait Fall Detection System for the Elderly Based on Wearable Devices and Machine Learning Algorithms	Wenhu Xu, Yutian Chen, Qianyi Zhang, Chengmeng Zhang, Gong Chen, Yang Xiao	Wenhu Xu
558	Optimization of Cutting Parameters for Surface Roughness in Aluminium CNC Machining	Chenliang Zhang, Xiaoqing Liu	Chenliang Zhang
560	Optimization and Empirical Research on Credit Risk Measurement Model of State-owned Banks—Based on Basel III and Time Series Analysis	Yinzi Tan	Yinzi Tan
561	Research on the Mechanism of Resource Sharing and Collaborative Innovation of Civic Moral Education Supported by Cloud Computing Platform	Fei Song	Fei Song
564	Joint Application of Transfer Learning and Generative Adversarial Networks in Addressing the Long-Tail Problem	Jielin Wu	Jielin Wu
565	Application of Blockchain Technology in Infrastructure Investment for China-Europe Energy Cooperation	Jingxiang Wang	Jingxiang Wang

ID	Title	Author(s)	Speaker
566	Machine Learning Technology Assists Connected Cars in Driving Data and Predicting Driving Behaviour	Yunmin Lin, Caixing Chen, Jinteng Dai, Yong Huang	Chen Rui
569	Application of Machine Learning in Investment Risk Assessment and Decision Optimization	Wei Zhu, Hongwen Zhou	Wei Zhu
571	Designing Robust Trading Strategies for High-Frequency Markets Using Big Data and Advanced Computational Techniques	Hao Lyu	Hao Lyu
572	AI-Driven Personalized Learning Systems for Enhancing Educational Outcomes in Data-Driven Environments	Qianqian Ma	Qianqian Ma
574	Analysing the Impact of Artificial Intelligence Tools on Student Engagement in Online Learning in China	Zhang Jin	Zhang Jin
575	Using AI-Based Speech Recognition Systems to Advance Listening and Speaking Skills in French Education	Yujie Wen	Yujie Wen
576	Real-time RPE Monitoring and Machine Learning Algorithm were Used to Optimize the Training Load of Youth Competitive Aerobics	Songlin Liu	Songlin Liu
577	Research on optimal manpower allocation based on linear integer programming and humanization	Jia Guo, Jingping Hu	Jia Guo
578	Bridging Stock Price Data and Technical Features for Stock Forecasting: A Comparative Study of BiLSTM, CNN & GRU Models	Md Riaz Hasan, Fariha Sultana, Harun Or Rashid, Tareq Khaled Abdulwasea, Shahid Raza	Md Riaz Hasan

Technical Program

June 27, 2025						
Time (GMT+3)	9:00 am - 10:45 am	Session 1 (HALL 108) (In-Person)	Session 2 (HALL 111) (In-Person)	Session 3 (VROOM1) (Virtual)	Session 4 (VROOM2) (Virtual)	Session 5 (VROOM3) (Virtual)
	11:00 am - 12:30 pm	Opening Ceremony Main Hall (In-Person)				
	12:30 pm - 1:30 pm	Lunch				
	1:30 pm - 2:00 pm	INVITED SPEAKER Prof. Dr. Köksal Erentürk (Hall 111) (In-Person)			INVITED SPEAKER Assoc. Prof. Dr. Korhan Cengiz (VROOM2) (Virtual)	
	2:00 pm - 2:30 pm	Coffee Break				
	2:30 pm - 4:00 pm	Session 6 (HALL 108) (In-Person)	Session 7 (HALL 111) (In-Person)	Session 8 (VROOM1) (Virtual)	Session 9 (VROOM2) (Virtual)	Session 10 (VROOM3) (Virtual)
	4:00 pm - 4:30 pm	Coffee Break				
	4:30 pm - 5:00 pm	INVITED SPEAKER Assoc. Prof. Dr. Zaza Davitadze (Hall 111) (In-Person)				
	5:00 pm - 6:30 pm	Session 11 (HALL 108) (In-Person)	Session 12 (HALL 111) (In-Person)	Session 13 (VROOM1) (Virtual)	Session 14 (VROOM2) (Virtual)	Session 15 (VROOM3) (Virtual)
	7:00 pm - 8:30 pm	Session 16 (VROOM1) (Virtual)	Session 17 (VROOM2) (Virtual)		Session 18 (VROOM3) (Virtual)	
	7:00 pm - 9:00 pm	Gala Dinner				

June 28, 2025						
Time (GMT+3)	9:00 am - 10:30 am	Session 19 (HALL 108) (In-Person)	Session 20 (HALL 111) (In-Person)	Session 21 (VROOM1) (Virtual)	Session 22 (VROOM2) (Virtual)	Session 23 (VROOM3) (Virtual)
	10:30 am - 10:45 am	Coffee Break				
	10:45 am - 11:15 am	INVITED SPEAKER Prof. Dr. Güven Çankaya (Hall 111) (In-Person)				
	11:15 am - 12:30 pm	Session 24 (HALL 108) (In-Person)	Session 25 (HALL 111) (In-Person)	Session 26 (VROOM1) (Virtual)	Session 27 (VROOM2) (Virtual)	Session 28 (VROOM3) (Virtual)
	12:30 pm - 1:30 pm	Lunch				
	1:30 pm - 3:30 pm	Session 29 (HALL 108) (In-Person)		Session 30 (VROOM1) (Virtual)	Session 31 (VROOM2) (Virtual)	Session 32 (VROOM3) (Virtual)
	3:30 pm - 4:00 pm	Coffee Break				
	4:00 pm - 6:30 pm	Session 33 (VROOM1) (Virtual)	Session 34 (VROOM2) (Virtual)		Session 35 (VROOM3) (Virtual)	
	4:30 pm - 6:30 pm	Social Activity (City Trip)				

Session 1. (HALL 108) (In-Person)		Date: June 27, 2025
Chair: Emre Benzer		Time (GMT+3): 9:00 am - 10:45 am
Paper	Author (s)	
530 - Akıllı Kent Bileşenlerinin Analitik Hiyerarşi Süreci İle Değerlendirilmesi	Fatma Zehra Ateş , Muhammet Fatih Ak, Setenay Ak, Namık Kemal Öztürk	
523 - Optimizing E-commerce Recommendations with Doc2Vec and GRU	Mustafa Keskin , Yunus Emre Gündoğmuş, Enis Teper, Sinan Keçeci, Emre Rençberoğlu	
358 - Design of Fuzzy PID Controller with Big Bang Big Crunch Optimization Algorithm and Application to Quarter Car Suspension System	Gökberk Ay , Barış Samim Nesimioğlu	
20 - Detection of Diseases on Apple Leaves with Deep Learning	Hatice Bilici, Mehmet Umut Salur , Tarık Talan	
250 - Comparative Analysis of Artificial Rabbit Optimization and Ox Optimization Based Feature Selection for Parkinson's Disease Diagnosis	Mehmet Umut Salur	
377 - Merkle Tree-Enhanced ECDH Mutual Authentication for Secure and Lightweight IoT Communication	Süleyman Yiğit Kaygısız , Gökhan Dalkılıç	
183 - Hacking Of Autonomous Vehicles	Ahmet Hakan İnce, Rahime Yıldırım	
Session 2. (HALL 111) (In-Person)		Date: June 27, 2025
Chair: Mustafa Demirbilek		Time (GMT+3): 9:00 am - 10:45 am
Paper	Author (s)	
356 - Benchmark Design, Construction and Real-Time Control for Pendulum on A Cart System	Muhterem Alper Kaplan , Mehmet Arıcı	
121 - Assessing the Importance of Key Restaurant Review Topics Using TF-IDF and Entropy Method	Mustafa Demirbilek	
488 - Vector Similarity-Assisted ChatGPT Approach for Text Classification	Ahmet Tuğrul Bayrak, Fatma Nur Korkmaz, İsmail Utku Sayan	
482 - EcoSphere - A Nature-Inspired Approach to Smart Agriculture in Desert Regions	Mohammed Saleh , Hussain Al-Aqrabi, Samer Aoudi, Fatma Zubaydi, Usman Durrani, Mustafa Akpinar	
483 - Smart Driven Gamified Learning Experience for Promoting Student Engagement in Green Computing	Mohammed Saleh , Hussain Al-Aqrabi, Hassan Abdulmouti, Fatma Zubaydi, Zakwan Skaf, Wasif Minhas	
331 - Parasite Classification in Biomedical Imaging Utilizing Vision Mamba	Kevser Cansu Yurdusever , Elif Baykal Kablan, Selen Ayas	
485 - Dynamic gesture recognition with data reduction and machine learning algorithms using Soli dataset	Harun Sevinç , Levent Seyfi	
368 - Addressing Time Delays in Blood Glucose Regulation for T1DM Using a PD Controller and Smith Predictor Method	Ender Kurnaz , Ömer Aydoğdu	
Session 3. (VROOM1) (Virtual)		Date: June 27, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 9:00 am - 10:45 am
Meeting ID: 864 1263 4610	Password: 015229	
Paper	Author (s)	
154 - Enhancing Retail Operations Through Remote Management of POS Terminals	Busra Ozdenizci Kose , Hakan Uluoz, Ulas Baysalli, Vedat Coskun	
206 - Early Hunter: An Integrated Platform for Automated Vulnerability Detection and Security Monitoring	Busra Ozdenizci Kose , Tamer Cal, Mahmut Zan, Halil Dikici, Vedat Coskun	
71 - Optimizing Air Freight Forecasting: The Integration of Machine Learning and Empirical Mode Decomposition	Hasan Emin Gürler , Mehmet Özçalıcı	
486 - Land Portfolio Managed Decision Support System for Renewable Energy Investments	Gökhan Uçkan , Emre Barış Dalyan, Engin Oğuzay	
148 - Log-Based Malware Detection: A Smart Dynamic Security Mechanism via Machine Learning	Göksun Önal , Mesut Güven	
506 - Arduino-Based Indoor Navigation System with Finger Print Method	Atıl Emre Coşgun , Hasan Demir, Bilal Şenol	
391 - Using Series Expansion Instead of Nonlinear Function in FPGA Implementation of Memristive Hindmarsh-Rose Neuron Model	Bekir Şıvga , Nimet Korkmaz	

Session 4. (VROOM2) (Virtual)		Date: June 27, 2025	
Chair: Oguzhan Pektezel		Time (GMT+3): 9:00 am - 10:45 am	
Meeting ID: 871 7167 2309		Password: 364639	
Paper		Author (s)	
361 - A Machine Learning Framework for Predicting Lithium-Ion Battery State of Health Based on Operational Degradation Indicators		Fatma Avli Fırıř, Gonca Uslu Özküçük	
362 - Enhancing Second-Life Battery Deployment Smart Solutions for Sustainable Energy Storage		Fatma Avli Fırıř	
189 - Automated Identification of Brain Disorders Utilizing Electroencephalogram Signals and Advanced Deep Learning Methodologies: A Review		Dawood Salman, Qais Al-Gayem	
546 - Creating an Intelligent Rescheduling System with Stochastic Reverse Learning and Chaos Mapping in Real-Time Scenarios		Chaoyong Wu	
393 - Efficient FCOS Model for Fire and Smoke Detection		Ekrem Yıldız, Mehmet Keskinöz	
79 - Model Predictive Control for Reliable and Efficient Path Tracking in Autonomous Vehicles		İbrahim Toy, Abdullah Yusefi, Akif Durdu	
237 - Early Detection of Physical Fatigue via Multimodal Biomedical Signals with Supervised Learning Algorithms		İsmail Çalıkuřu, Uğur Fidan	
Session 5. (VROOM3) (Virtual)		Date: June 27, 2025	
Chair: Mehmet Arıcı		Time (GMT+3): 9:00 am - 10:45 am	
Meeting ID: 899 4754 5593		Password: 063331	
Paper		Author (s)	
254 - Trajectory Tracking with Zero-Shot Reinforcement Learning on Aerial Robots: A Real-World Evaluation		Ali Tahir Karasahin	
504 - Design of Open-Sourced Energy Saving Module for Lifts		Alper Doruk Yıldız, Elif Naz Seyyar, Doruk Sezer, Ali Tunçak, Atajan Rovshenov	
179 - The Role of Green Energy in Smart Cities: Blockchain-Based Strategies		Büşra Tural Demir, Zeynep Destan, Zeynep Örpek	
541 - A Review and Outlook of Distribution Network Restoration Research toward Power CPS Resilience Enhancement		Jianming Jiang, Chunxiang Liu	
359 - Automated Code Review Using Large Language Models with Symbolic Reasoning		Büşra İçöz, Göksel Biricik	
92 - DEVELOPMENT OF A SELF-SERVE DATA MESH INFRASTRUCTURE		Gizem Kılınç Aydın, Salih Göktuğ Köse, Ceren Ulus, Mehmet Fatih Akay	
566 - Machine Learning Technology Assists Connected Cars in Driving Data and Predicting Driving Behaviour		Yunmin Lin, Caixing Chen, Jinteng Dai, Yong Huang	
296 - Comparative Performance Analysis of ARO and NOA Algorithms in Tuning PI and FOPI Controllers for Dual Active Bridge Converters		Emirhan Yeter, Chivon Choeung, Yahya Danayiyen	
Opening Ceremony MAIN HALL (In-Person) 11:00 am - 12:30 pm			
Lunch 12:30 pm - 1:30 pm			
INVITED SPEAKER Prof. Dr. Köksal Erentürk "A Novel Perspective of Transfer Learning Application to Renewable Energy Systems" 1:30 pm - 2:00 pm (HALL 111) (In-Person) Chair: İpek Atik		INVITED SPEAKER Assoc. Prof. Dr. Korhan Cengiz "Novel AI Methods for Internet of Things" 1:30 pm - 2:00 pm (VROOM2) (Virtual) Chair: Oguzhan Pektezel	
Coffee Break 2:00 pm - 2:30 pm			

Session 6. (HALL 108) (In-Person)		Date: June 27, 2025
Chair: Nazmiye Eligüzel		Time (GMT+3): 2:30 pm - 4:00 pm
Paper	Author (s)	
369 - Plastik Enjeksiyon Kalıplamada Yolluk Giriş Çaplarının Akış Uzunluğu Üzerine Etkisinin İncelenmesi	Murat Gülbay, Erdal Öztürk	
479 - Metal Enjeksiyon Döküm Üretim Öncesi Üründe Meydana Gelebilecek Hataların Tahmini	Murat Gülbay, Erdal Öztürk	
366 - Real Estate Price Estimation with AI: A Hybrid Approach Combining Clustering and Machine Learning	Hatice Okurlar , Yunus Eroğlu	
513 - Few-Shot and Zero-Shot Classification with Large Language Models: A Comparative Study	Ahmet Tuğrul Bayrak , İsmail Utku Sayan, Fatma Nur Korkmaz	
491 - IoT-Based Energy Efficiency Management System	Yashar Parsa Gharamaleki, Kübra Erdoğan , Ercan Aykut	
150 - A Systematic Investigation of Metaheuristic Algorithms in Smart Manufacturing through Topic Modeling and Fuzzy C-Means Clustering	Nazmiye Eligüzel	
153 - Scenario-Based Approach to Smart Planning in Post-Disaster Logistics: A Case Study in Adana	Asena Sağdıç, Zeynep Yüksel , Süleyman Mete	
Session 7. (HALL 111) (In-Person)		Date: June 27, 2025
Chair: Emre Benzer		Time (GMT+3): 2:30 pm - 4:00 pm
Paper	Author (s)	
456 - Image Enlargement technique using HDMR with Lagrange Interpolation	Sena Kaçar , Burcu Tunga, Mehmet Alper Tunga	
533 - Evaluation of Climate and Energy Compatibility in Smart Cities through Fuzzy Logic Approach	Setenay Ak , Muhammet Fatih Ak, Fatma Zehra Ateş	
378 - Remote Control and Monitoring Protocols for PLC and HMI Systems: A Case Study of MODBUS, WMI and VNC	Ercan Aykut , Kübra Erdoğan, Sena Nur Benli, M. Cihat Mumcu, İzzet Yavuz	
521 - Applications of Advanced Power Electronics in Smart Cities	Hasan Abumetier	
516 - S-Band Uygulamaları İçin 2.3 GHz Frekansında Mikroşerit Yama Anten Tasarımı ve Analizi	Medine Begüm Güzeltas , Yüksel Tokur Bozkurt	
19 - Integration of Artificial Intelligence and Cybersecurity for Management Information Systems	Hicran Güneş , Cemal Aktürk	
383 - IoT-Cloud Based System for Warehouse Management: A Conceptual Framework	Khaoula Sahraoui , Samia Aitouche, Noha Mostafa, Karima Aksa	
Session 8. (VROOM1) (Virtual)		Date: June 27, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 2:30 pm - 4:00 pm
Meeting ID: 867 8657 4363	Password: 634056	
Paper	Author (s)	
326 - Diabetes Classification using Deep Learning With a Hybrid Data Imbalance Handling Approach	Elahe Goli , Melike Sah	
151 - Determining fire station locations using the reverse fixed centered K-means algorithm considering existing stations	Ertugrul Gul , Murat Tasyurek	
492 - Animal Images Classification with MobilNetV2	Cansu Günhan, Ahmet Hakan İnce, Fatmanur Soydaş	
220 - SAFEROUTE: Child Tracking System on Safe Route	Güneş Kahiloğulları , Gizem Yıldız, Önder Yakut	
268 - Comparative Analysis of Optimizers in Lumbar Spine MRI Segmentation Using ResNet50-based U-Net	Yasemin Sarı, Nesrin Aydın Atasoy	
449 - Görüntü İşleme Ve Termal Veri Füzyonuna Dayalı Gerçek Zamanlı Akıllı Pişirme Sistemi	Kadir Yağcı , Ramazan Aldemir, Nurullah Öztürk	
565 - Application of Blockchain Technology in Infrastructure Investment for China-Europe Energy Cooperation	Jingxiang Wang	
186 - Design and Simulation of AI based Threat-Detecting Robot for Empowering Border Security	Kerem Uludağ , Bekir Akhan, Emre Değirmenci, Atajan Rovshenov	
294 - BIOSKOP: AI based Microscope Design for Biological Survey and Object Analysis	Kerem Uludağ , Bekir Akhan, Emre Değirmenci, Atajan Rovshenov	

Session 9. (VROOM2) (Virtual) Chair: Oguzhan Pektezel	Date: June 27, 2025 Time (GMT+3): 2:30 pm - 4:00 pm
Meeting ID: 817 0157 9565	Password: 827425
Paper	Author (s)
5 - Foundational Models as General-Purpose Technology: A Guide to Corporate Transformation	Ioannis Patias
267 - Data Collection Tools in Faculty Evaluation Sentiment Analysis	Janette Tanquis, Larmie Feliscuzo, Cherry Lyn Sta Romana
295 - Optimization of DC-DC Buck Converters Using ABC, GTO, and RIME Algorithms	Amina Alshekh, Azizullah Sorosh, Yahya Danayiyen
67 - Web Implementation of Sentiment Analysis for Bulgarian Texts: A Case Study Across Domains	Daniela Petrova
558 - Optimization of Cutting Parameters for Surface Roughness in Aluminium CNC Machining	Chenliang Zhang, Xiaoqing Liu
37 - A Knowledge-Driven Approach for Enhancing Chronic Condition Accessibility with Large Language Models and Semantic Search	Harish Kanthathasan, Muditha Tissera
127 - Real-time Image Generation Utilizing ARM SBC Architecture	Igor Culafic, Tomo Popovic, Ivan Jovovic, Stevan Cakic
40 - GREENDAI: Towards an observability tool for sustainable green distributed artificial intelligence	Jon Aguirre-Usandizaga, Raul Miñon, Ana I. Torre-Bastida, Josu Diaz-De-Arcaya, Lander Bonilla, Asier Garcia Perez, Aitor Almeida
Session 10. (VROOM3) (Virtual) Chair: Hasan Abumeteir	Date: June 27, 2025 Time (GMT+3): 2:30 pm - 4:00 pm
Meeting ID: 861 1054 6617	Password: 455243
Paper	Author (s)
357 - Optimum Battery Design for a Residential Site with Rooftop PV Systems: A Case Study in Şanlıurfa Province in the Southeastern Region of Türkiye	Cihan Ayhancı, Bedir Kekezoğlu, Ali Durusu
470 - Real-Time Stress Detection Using Webcam-Based Physiological Signals and Interpretable ML	Iman Elawady, Ahmet Reşit Kavsaoğlu
418 - Deep Learning versus Machine Learning for Music Genre Classification: A Dual-Dataset Evaluation	Kadir Kesimal, Mehmet Eren Reyhanlıoğlu, Hikmetcan Özcan
571 - Designing Robust Trading Strategies for High-Frequency Markets Using Big Data and Advanced Computational Techniques	Hao Lyu
80 - Real-Time Safety Helmets and Vests Detection in Industrial Environments Using YOLO	Mamady Cheick Souare, İbrahim Toy, Abdullah Yusefi, Akif Durdu
248 - Estimation of the voltage value at the maximum power point using the Levenberg-Marquardt algorithm	Muhammed Fatih Çorapsız, Mehmet Yılmaz
252 - Applications of Heuristic Optimization Algorithms in Distribution and Power Transformer Design: A Survey	Mohammad Hassan Hashemi, Emre Yeniyl, Ugur Buyuktuncer
228 - Bidirectional Isolated Electric Vehicle Charger Utilizing Three-Phase Matrix Converter	Mossab Al Aryan, Ahmet Mete Vural
Coffee Break 4:00 pm - 4:30 pm	
INVITED SPEAKER Assoc. Prof. Dr. Zaza Davitadze "Batumi Shota Rustaveli State University, Georgia"	
4:30 pm - 5:00 pm (HALL 111) (In-Person)	

Session 11. (HALL 108) (In-Person)	
Chair: Baktygul Assanova	
Date: June 27, 2025	
Time (GMT+3): 5:00 pm - 6:30 pm	
Paper	Author (s)
538 - Method of Synthesis of Linguistic Models of Slow Coking Unit Coking Reactors in Fuzzy Environment	Baktygul Assanova , Batyr Orazbayev, Zhanna Shangitova, Zhadyra Moldasheva, Kulman Orazbayeva, Dinara Kaibassova
495 - Çok Sınıflı Tehlike İşaret ve Levhalarının YOLO Modeli Kullanılarak Tespiti	Berat Bakan , Abdullah Ammar Karcioğlu
126 - Enhanced YOLOv11n with Ghost Convolution for Automatic Detection of Pistachio Leaf Disease	Bunyamin Dikici , Hakan Açıkgöz, Serkan Ozbay
459 - Artificial Intelligence Enhanced Smart Tea Harvester	Ahmet Hakan İnce, Hilal Yıldız Bayrak, Davut Tarhan
392 - Research on Maximizing System Profit in Pumped Storage Hydroelectric Power Plants	Tuğçe Yeşilyurt Kurnaz , Musa Aydın
48 - EMPR-Balancer as an Oversampling Technique: A Case Study for Plant Disease Recognition	Ahmet Topal , Burcu Tunga
152 - A Smart Decision Support Approach for Sustainable Waste Bank Location Using P-median and P-center Models: A Case Study in Gaziantep, Şehitkamil	Hüseyin Başaran , Zeynep Yüksel, İbrahim Miraç Eligüzel, Süleyman Mete
Session 12. (HALL 111) (In-Person)	
Chair: Emre Benzer	
Date: June 27, 2025	
Time (GMT+3): 5:00 pm - 6:30 pm	
Paper	Author (s)
480 - Importance of Soil Moisture Sensor Data In Flood Early Warning Systems	Mehmet Safa Aydın, Furkan Ayaz, Muhammed Zakir Keskin, Ersin Alaybeyoğlu , Evrim Güler, Ercan Gemici
481 - Detection of Water Level with Level Sensors in Bartın Stream and Its Branches and Its Integration to Flood Early Warning System	Mehmet Safa Aydın, Furkan Ayaz, Muhammed Zakir Keskin, Ersin Alaybeyoğlu , Evrim Güler, Ercan Gemici
360 - Analysis and Comparison of Tree-Based Shallow Learning Methods for Forecasting Solar Energy Production	Medine Gülmez , Gökhan Yüksek, Alkan Alkaya
511 - Comparison of Different Yolo Algorithms For The Detection of Camouflaged Military Targets	Ipek Atik , Sadik Önal
394 - Detecting Spam Comments in Product Reviews on E-Commerce Websites	Selin Sude Atalı , Betül Kozlucalı, Sultan Zeybek
329 - DETECTION OF HOT SPOTS IN PV MODULES WITH THE CBAM-ENHANCED YOLO MODEL	Mehmet Fatih Bekçioğulları , Hakan Açıkgöz, Serkan Ozbay
512 - Prediction of Trash Rack Pollution in Run-Of-River Power Plants Using Artificial Neural Networks	Osman Bilgin , Kağan Konu, Hakan Açıkgöz
522 - Design and Optimization of Welding Defect Detection on Assembly Line Using Machine Vision System	İsmail Bogrekci, Pinar Demircioglu, Emre Benzer, Recep Uslu , Kazım Demiroz

Session 13. (VROOM1) (Virtual) Chair: Ebubekir Yasar		Date: June 27, 2025
		Time (GMT+3): 5:00 pm - 6:30 pm
Meeting ID: 872 2401 0470		Password: 874782
Paper	Author (s)	
476 - Integrating remote sensing and deep learning forecasting model: A fluid-environment interface study	Reza Hassanian , Gabriele Cavallaro, Morris Riedel	
35 - Effects of meteorological data on the development of net blotch of spring barley in Turkey	Recep Sinan Arslan , Nilüfer Akci, Dilara Çelik, Bahatdin Daşbaşı, Kadir Aytaç Özaydın, Teslima Daşbaşı	
350 - AI FOR CORE NETWORK IN 6G	Reyhan Dede , Nureşan Ak, Merve Güllü, İbrahim Yazıcı, İsmail Duru	
275 - Robust Pothole Detection Using YOLOv5 and SSD: Accuracy, Speed, and Deployment Trade-offs	Mojmir Kucera, Astrida Dina Krumins, Kristiana Amanda Ozolins, Muhammed Nurullah Avran	
572 - AI-Driven Personalized Learning Systems for Enhancing Educational Outcomes in Data-Driven Environments	Qianqian Ma	
232 - SightNavigator: AI-Powered Smart Glasses to Enable Independent Shopping for Visually Impaired Individuals	Maha Faisal, Hadeel AlQouz	
316 - Towards Ultra-Secure 6G Networks: A Comprehensive Review on Quantum Key Distribution Techniques and Applications	Sedat Çimen , Deniz Karhan, Merve Güllü	
147 - Source Stratified Machine Learning: Balancing Computational Efficiency and Performance in Cardiovascular Risk Prediction	Pınar Uskaner Hepsağ	
524 - A Milimeter Wave Radar-Driven Approach to Real-Time Motion Recognition in Exergames	Tuğşad Öcal , Muhammet Baykara	
Session 14. (VROOM2) (Virtual) Chair: Oguzhan Pektezel		Date: June 27, 2025
		Time (GMT+3): 5:00 pm - 6:30 pm
Meeting ID: 842 0546 4412		Password: 786561
Paper	Author (s)	
40 - GREENDAI: Towards an observability tool for sustainable green distributed artificial intelligence	Jon Aguirre-Usandizaga , Raul Miñon, Ana I. Torre-Bastida, Josu Diaz-De-Arcaya, Lander Bonilla, Asier Garcia Perez, Aitor Almeida	
169 - Health Automation with Supply Chain Management using IoT and Blockchain for Pharmaceutical Industry: A Scoping Review	Christian Daniel Romani Carbajal, Gabriel Charly León Cueva , Jose Cornejo	
564 - Joint Application of Transfer Learning and Generative Adversarial Networks in Addressing the Long-Tail Problem	Jielin Wu	
556 - Design and Practice of Personalized Guidance System Based on Artificial Intelligence in Sports Training	Xianghong Meng, Jing Zhu, Jun Zheng	
121 - Quantum Distributed Computing for Educational Innovation: Challenges, Opportunities, and Future Perspectives	Marian Ileana , Pavel Petrov, Vassil Milev	
351 - Transforming Customer Relationship Management with Distributed Quantum Computing Opportunities and Challenges	Marian Ileana , Pavel Petrov, Vassil Milev	
107 - Robust Maritime Search and Rescue with UAVs on the Edge	Morgan Woodford , Gelayol Golcarenenrenji	
22 - Classification of Mild Cognitive Impairment via Improved Multimodal Convolutional Mixer Model	Ovidijus Grigas , Rytis Maskeliūnas	

Session 15. (VROOM3) (Virtual)	
Chair: Hasan Abumeteir	
Date: June 27, 2025	
Time (GMT+3): 5:00 pm - 6:30 pm	
Meeting ID: 838 3327 0698	Password: 171160
Paper	Author (s)
202 - Multi-Class Machine Learning Models for Predicting Order Cancellations and Returns in E-Commerce	Zehra Sude Sarı , Hasan Hüseyin Yurdağül, Batuhan Taşkapı, Gökay Dağdaş, Mehmet Fatih Akay
253 - Development of Machine Learning Based Price Quote Prediction Models for Electronic Payment and Money Institutions	Zehra Sude Sarı , Hasan Hüseyin Yurdağül, Hüseyin Şen, Ceren Ulus, Mehmet Fatih Akay, Nazlı Yusufoglu
283 - A Lightweight Mobile Deep Learning Framework for Real-Time Plant Disease Detection in Smart Agriculture	İsa Avcı, Murat Koca, Yahya Zakrya Khan
251 - Sentiment Analysis of Turkish Hotel Reviews: A Tripadvisor Study Case	Ümmügülsüm Mengutaycı
291 - A Hybrid LSTM Model with Feature Selection and ACO-Based Hyperparameter Optimization for Stock Price Prediction in the Banking Sector	Ümmühan Nida Erol , Serpil özer, Ayşe Tuğba Dosdoğru, Mustafa Göçken
553 - Research on the dynamic capture and analysis system of symphony stage performance based on deep convolutional neural network (DCNN) and computer vision technology	Ruiqing Tang
352 - Classification of Network Anomalies Using a Multilayer Perceptron	Oleksandr Kushnerov , Yevhen Melenti, Serhii Yevseiev, Vladyslav Sokol, Stanislav Milevskyi, Sergii Dunaiev
205 - Multi-Agent Collaboration for Hallucination Correction in Complaint Management	Onur Mert Çeldir , Gökhan Dalkılıç
Session 16. (VROOM1) (Virtual)	
Chair: Ebubekir Yasar	
Date: June 27, 2025	
Time (GMT+3): 7:00 pm - 8:30 pm	
Meeting ID: 849 9441 8998	Password: 673337
Paper	Author (s)
325 - Federated Anomaly Detection for Fault Diagnosis Using Autoencoders	Muhammed Ali Oz, Fatih Varçın
535 - Effect of Image Resolution on CNN Classification Performance: An Experimental Study on Sunflower Seed Classification	Hakan Aktaş
489 - Autonomous guiding robot (AGuro): An AI Mueseum Robot for Visually Impaired Individuals	Maha Faisal, Hadeel AlQouz
561 - Research on the Mechanism of Resource Sharing and Collaborative Innovation of Civic Moral Education Supported by Cloud Computing Platform	Fei Song
537 - Research on the Optimal Planting Strategy of Crops Based on Simulated Annealing Algorithm	Xiaolong Li , Xinfang Zhang, Xue Xiong
281 - An AI-Based Neural Network Approach for Post-Surgical Elbow Exercise Recommendation	M Monzer Omar , Lima Ghothani, Mohanad Alayedi, Mohammed Sayim Khalil
534 - Defect Detection in Manufacturing: A Comparative Study of Machine Learning and Fuzzy Rule-Based Systems	Tuba Irmak
266 - Eleven-Level Switched Capacitor Multilevel Inverter Topology for Photovoltaic Applications	Murat Karakılıç
187 - DDoS Detection in Network Traffic Using LightGBM: A Study on the CICIDS2018 Dataset	Selçuk Kavut, Mustafa Furkan Ceylan , Faruk Karadeniz

Session 17. (VROOM2) (Virtual) Chair: Oguzhan Pektezel		Date: June 27, 2025
		Time (GMT+3): 7:00 pm - 8:30 pm
Meeting ID: 865 2827 3675		Password: 820578
Paper	Author (s)	
158 - Comparative Analysis of CNN and LSTM for Channel Distribution Learning and Classification in Beyond 5G	Osman Kaya , Afm Shahan Shah	
204 - Comparative Analysis of Machine Learning-Based Indoor Positioning for AMRs Using Wi-Fi RSSI Data	Osman Taşbaşı , Didem Özüpek Taş, Muhammed Oğuz Taş	
233 - Signal Verification with Multi Modal Language Model	Üsame Durak, Nedim Kıvanç , Oğuzcan Sarıbiyık, Hüseyin Daş	
539 - Comprehensive Application of Formal Verification, Static Analysis, and Dynamic Testing of Smart Contracts in Blockchain Financial Security	Min Hua , Fulei Wang, Wen Li	
370 - Autoencoder-Based Anomaly Detection and Analysis in Log Data Generated in Cloud Systems Using Natural Language Processing	İlayda Ayvaz , Işıl Karabey Aksakallı, Mehmet Baygın	
574 - Analysing the Impact of Artificial Intelligence Tools on Student Engagement in Online Learning in China	Zhang Jin	
218 - Machine Learning for Precision Medicine: Optimizing Treatment Selection and Reducing Diagnostic Errors	Mohanad Alayedi , Mohammed AL-Hubaishi	
577 - Research on optimal manpower allocation based on linear integer programming and humanization	Jia Guo , Jingping Hu	
Session 18. (VROOM3) (Virtual) Chair: Miraç Eligüzel		Date: June 27, 2025
		Time (GMT+3): 7:00 pm - 8:30 pm
Meeting ID: 896 2403 4992		Password: 128286
Paper	Author (s)	
178 - Detection and Analysis of Command and Control (C2) Connections in Cybersecurity with C2Sentinel	Amil Mansurov , Önder Yakut	
273 - Solar Panel Damage Detection Using a Drone and YOLO-Supported Artificial Intelligence Model	Branislava Tatiana Pavlikova, Kristiana Amanda Ozolins, Klaudijs Patriks Eglite, Muhammed Nurullah Avran	
274 - Drone-Based Real-Time Traffic Analysis: Object Tracking and Speed Measurement with YOLO, DeepSORT and Hybrid Speed Calculation	Zigmars Karina Rudzitis, Jaroslav Alexej Sokolova, Muhammed Nurullah Avran , Klaudijs Patriks Eglite	
484 - Implementation of Cluster-Based UAV Swarm Networks for Emergency Communications	A. F. M. Shahan Shah, Mohammed Anis Oukebdane , Md. Thouhidur Rahman, Salah Uddin, Sumaiya Sultana, Ishraque Sarwar, Muhammet Ali Karabulut	
552 - Distributed Secondary Control for Enhanced Stability in Islanded Microgrids: An application of Multi-Agent Systems	Zheng Fan	
575 - Using AI-Based Speech Recognition Systems to Advance Listening and Speaking Skills in French Education	Yujie Wen	
94 - Cosmetics Logos Feature Detection: A Deep Learning Approach Using VAE	Nasim Ahmadzadeh Nobari Azar , Mohammad Karami	
113 - MSCABINET: A Lightweight Attention-Enhanced CNN-BiLSTM Model for EEG-Based Emotion Recognition	Nasim Ahmadzadeh Nobari Azar	

Gala Dinner
7:00 pm - 9:00 pm

Session 19. (HALL 108) (In-Person)		Date: June 28, 2025
Chair: Yüksel Tokur Bozkurt		Time (GMT+3): 9:00 am - 10:30 am
Paper	Author (s)	
322 - Effectiveness of Automatic Segmentation with Deep Learning in Separating Overlapping Sheet Metal Parts	Gül Sığındı , Sadettin Kapucu, Ali Kılıç	
184 - Toward Autonomous Systems: A Comparative Analytic Hierarchy Process Evaluation of Diesel, Electric, and Autonomous Forklifts	Muhammed İdris Aktaş , Zeynep Didem Unutmaz Durmuşoğlu, Eren Özceylan	
180 - Enhancing Business Process Anomaly Detection with Sequence Capturing Hybrid Autoencoders	Teoman Berkay Ayaz , Alper Özcan, Akhan Akbulut	
437 - Real-Time Classification of Operational Human Movements using YOLOv8-Pose and Feed-Forward Neural Networks	Deniz Eryılmaz, Ersin Alaybeyoğlu	
496 - Innovative Approaches to Formative Assessment Processes of Primary School Students with Artificial Intelligence	Betül Yıldızhan Bora, Banu Kayınova, Yeşim Nalkesen Akın	
Session 20. (HALL 111) (In-Person)		Date: June 28, 2025
Chair: İlker Mert		Time (GMT+3): 9:00 am - 10:30 am
Paper	Author (s)	
229 - Prediction of Wind Speed Using Tree-Based Ensemble Algorithms: CatBoost, HistGBM, and XGBoost	İlker Mert	
297 - Optimization of a Power Divider and Patch Antenna Array for Ku-Band Satellite Communication	Yusuf Salih Gurbet , Semih Doğu	
424 - Deep Learning-Based Temperature Distribution Estimation for Microwave Hyperthermia Applications	Yusuf Salih Gurbet , Hulusi Önal, Semih Doğu	
518 - Accurate Hot Spot Detection on High-Voltage Power Transmission Lines Using YOLOv8-Based Deep Learning	Ipek Atik , Anıl Özgür, Onur Dündar, Şengül İpek	
38 - Dual fuel-cell sourced wireless power transfer and load power estimation with Machine Learning	Unal Yılmaz	
510 - Channel Estimation in OFDM System Using Walrus Optimization Algorithm	Yüksel Tokur Bozkurt , Mustafa Şimşek	
457 - A Context-Aware, AI-Driven Load Balancing Framework for Incident Escalation in SOCs	Ahmed AbuAziz , Baris Celiktas	
Session 21. (VROOM1) (Virtual)		Date: June 28, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 9:00 am - 10:30 am
Meeting ID: 830 3486 9103		Password: 090121
Paper	Author (s)	
421 - Iterative Semantic Refinement: A Vision Language Model-Driven Approach to Auto-Regressive Image Editing	Ege Yavuzcan, Ömer Kuş, Abdurrahman Gumus	
466 - Semantic Guided Autoregressive Diffusion Based Data Augmentation Using Visual Instructions	Ege Yavuzcan, Ömer Kuş, Abdurrahman Gumus	
34 - Real-Time Mushroom Detection and Maturity Classification Using YOLO-Tiny on Raspberry Pi Platform	Sonay Duman , Abdullah Elevi, Amina Souag	
60 - AI-Driven Project Portfolio Optimization: Balancing Innovation and Operations in Post-Pandemic Organizations	Ashrafur Rahman Nabil, Kazi Rezwana Alam, Jesmin Ul Zannat Kabir, Reaz Uddin Rayhan, MD Nazim Akther, Sonay Duman	
478 - Binary Classification of Coral Reefs Using Deep Learning for Enhanced Monitoring	Monday Sylvester Ogidi , Melike Sah	
131 - Photovoltaic-supported Battery Charger System with Low-side Two Switch based Buck-Boost Converter for Electric Vehicles	Mustafa İnci	
222 - Optimizing Machine Learning Models based on Hyperparameter Tuning for Arabic Fake News Detection	Rabia Al Mamlook , Tiba Abdulhameed, Mossa Alsoussia, Tasnim Gharaibeh, Amira Talaat, Mohammad El-Yabroudi, Faisal Mohamed, Najat Elgeberi	

Session 22. (VROOM2) (Virtual) Chair: Muhammed Çelik	Date: June 28, 2025
	Time (GMT+3): 9:00 am - 10:30 am
Meeting ID: 828 8683 7036	Password: 284344
Paper	Author (s)
293 - Exploring AI-Based Techniques for the Generation of Synthetic Infrared Images and Their Practical Applications	Ali Berkol
116 - Efficient Cross-Lingual Transfer for Language Models	Akshesh Shah
117 - Evaluating Convolutional and U-Net Architectures for Tonnetz-Based Music Generation and Prediction	Akshesh Shah
21 - Brain Tumor Detection Using Deep Learning	Semiha Özcan, Tark Talan
544 - Evaluating Geologic Uncertainty and Its Impact on Log Interpretation for Precise Shale Gas Reservoir Assessment	Wen Cao, Meng Tian, Yang He, Linwei He
578 - Bridging Stock Price Data and Technical Features for Stock Forecasting: A Comparative Study of BiLSTM, CNN & GRU Models	Md Riaz Hasan, Fariha Sultana, Harun Or Rashid, Tareq Khaled Abdulwasea, Shahid Raza
277 - Lightweight XAI-Enhanced CNN for Fashion-MNIST Classification on Edge Devices	Sena Nisa Çakır, Mohammed AL-Hubaishi
223 - Comparative Analysis of PID Tuning Methods for DC Motor Speed Control	Sercan Şahal, Zafer Ortatepe
279 - An Empirical Study of YOLOv10 on Optical vs SAR Imagery for Aircraft Recognition	Irmentrud Frieda Gaertner, Babette Wibke Waxweiler, Sonnhild Camilla Fiedler, Zeynep Sahutoglu
Session 23. (VROOM3) (Virtual) Chair: Osman Bilgin	Date: June 28, 2025
	Time (GMT+3): 9:00 am - 10:30 am
Meeting ID: 875 2291 2804	Password: 700662
Paper	Author (s)
155 - Bone Fracture Classification Using Deep Learning Models with Transfer Learning	Ahmet Ilhan, Sedra Alialsagher Mohammed, Boran Sekeroglu, Omid Mirzaei
528 - Detection and Analysis of Cyberloafing Behaviors in The Workplace: A Multi-Method Literature Review	Selahattin Demirboğa, Muhammet Baykara, Aslıhan Kılınç
332 - Design of Carbon-Based Electromagnetic Absorber Textile Material with DS-ABC Optimization	Seyma Atıcı, Abdullah Aksoy, Halil I. Akyıldız, Enes Yiğit
122 - Walrus Optimization-Enhanced Machine Learning Intrusion Detection for the Internet of Medical Things	Muhammed Furkan Gül, Halit Bakır
543 - Artificial Intelligence-Driven Financial Market Trend Forecasting and Quantitative Portfolio Dynamic Adjustment Strategy Design	Shubin Yin
181 - Spider Wasp Optimizer-based PID Control Approach for Temperature Management In Continuous Stirred Tank Reactors	Davut Izci, Mostafa Jabari, Serdar Ekinci, Raymond Ghandour, Mohammad Salman
221 - Design of PI-PDN Controlled DFIG System via a New Objective Function and Starfish Optimizer	Davut Izci, Fatma Artun, Serdar Ekinci, Raymond Ghandour, Mohammad Salman, Ehab Ghith
290 - HeartShield: Machine Learning-Based Heart Disease Risk Prediction	Reginald Jibao, Mohammed Sayim Khalil
Coffee Break 10:30 am - 10:45 am	
INVITED SPEAKER Prof. Dr. Güven Çankaya "Artificial Intelligence, Materials Science, Nanotechnology and Biomimetics: Future Forces" 10:45 am - 11:15 am (HALL 111) (In-Person) Chair: İpek Atik	

Session 24. (HALL 108) (In-Person)	
Chair: Bayram Bala	
Date: June 28, 2025	
Time (GMT+3): 11:15 am - 12:30 pm	
Paper	Author (s)
124 - Solar irradiance estimation using a hybrid deep learning model with metaheuristic algorithms	Rafiq Asghar , Michele Quercio, Lorenzo Sabino, Davide Milillo, Assia Mahrouch, Francesco Riganti Fulginei
425 - Ensemble Learning for Predicting AI Content Domination in Global Digital Media Sectors (2020–2025)	Muhammad Athallah Zahran Sulistiono , Muhammad Abdul Aziz, Hasri Akbar Awal Rozaq, Oktay Yıldız
59 - A Framework for the Multidimensional Classification and Applications of Soft Robots	Alican Yılankırkan , M. Taylan Das, Ali Kılıç
517 - Deep Learning-Based Fault Detection in Electrical Insulators Using Object Detection Models	Ipek Atik , Umit Alici, Yusuf Özdemir, Samet Özkanlı, İbrahim Halil Solak
65 - Comparative study between Advanced Machine Learning and Deep Learning Approaches combined in an Advanced hybrid framework for Estimating Thermal Hydraulic Performance in Heat Exchangers	Ali A. H. Karah Bash , Ahmad About Khail
Session 25. (HALL 111) (In-Person)	
Chair: Selim Sivrioglu	
Date: June 28, 2025	
Time (GMT+3): 11:15 am - 12:30 pm	
Paper	Author (s)
106 - A Fuzzy Inference System-Based Decision Support System Proposal for Subcontractor Performance Evaluation in 3PL Companies	Selcuk Cebi, Ersin Sengul
422 - High-Frequency Link Voltage Multiplexing for Multi-Level Inverters with Optimized Transformer Windings	Hasan Hataş
354 - Clinical Verification of AI Models for Radiology Report Annotation Using a Physician-Annotated MIMIC-CXR	Ömer Faruk Özüyağlı , Emre Demirbaş, Buse Nur Ileri, Ebubekir Alatepe, Yasin Durusoy, M.Fatih Demirci
536 - Prediction of Depression Severity by Applying Machine Learning to Blood Biomarkers	Rahmi Kavak , Selma Ayşe Özel, Özgür Yılmaz
396 - Estimating Tsunami Run-Up Triggered by Landslides Using Support Vector Machine	Selçuk Tokgöz , Mustafa Açıkkar, Baran Aydın
508 - Adaptive Control for Target and Projectile Motion Problem with Disturbance Effect	Selim Sivrioglu
Session 26. (VROOM1) (Virtual)	
Chair: Ebubekir Yasar	
Date: June 28, 2025	
Time (GMT+3): 11:15 am - 12:30 pm	
Meeting ID: 880 2871 8218	Password: 243652
Paper	Author (s)
118 - Real-Time Audio Spectrogram Inpainting	Akshesh Shah
272 - A Dual-Platform Human Detection Framework Using Remote Sensing and Deep Learning	Melanie Yveta Pokorna, Rebeka Kajetan Reznicek, Gertruda Ambroz Navratilova, Behiye Sahin
319 - Classification and Generation of Soliton Waves via Convolutional Neural Networks	Abdullah Aksoy , Seyma Atıcı, Enes Yiğit
234 - Application Of Machine Learning In The Prediction Of Chronic Kidney Disease	Mohammed Sayim Khalil, Khadija Brik, Hiba El Quassimi
462 - MH-NAIS: A Multi-Head Attention Extension of the Neural Attentive Item Similarity Model	Esra Kayaalp , Mehmet Keskinöz
576 - Real-time RPE Monitoring and Machine Learning Algorithm were Used to Optimize the Training Load of Youth Competitive Aerobics	Songlin Liu
292 - Reflection Coefficient Prediction in Triple-Layer Microwave Absorbers: A Machine Learning Perspective	Abdurrahim Nas , Sueda Kankılıç, Esin Karpaz
280 - Design and Analysis of Vivaldi Antenna Over A Wide Frequency Range	Hamdullah Öztürk

Session 27. (VROOM2) (Virtual) Chair: Muhammed Çelik	Date: June 28, 2025
	Time (GMT+3): 11:15 am - 12:30 pm
Meeting ID: 861 5460 8880	Password: 295302
Paper	Author (s)
276 - Drone-Based Real-Time Traffic Analysis with YOLOv8 and ByteTrack	Robert Waltraud Teufel, Hansel Friede Achterberg, Fabian Kornelia Hildebrand, Zeynep Sahutoglu
278 - High-Resolution Human Density Monitoring via UAVs Using YOLOv8 and DeepSORT	Gabi Levin Dietrich, August Tabea Schwinghammer, Robert Waltraud Teufel, Zeynep Sahutoglu
560 - Optimization and Empirical Research on Credit Risk Measurement Model of State-owned Banks—Based on Basel III and Time Series Analysis	Yinzi Tan
41 - Music Genre Recognition: An Explainable Approach	Tom Smith , Gelayol Golcarenenrenji
323 - Lithium Niobate-Based Single-Mode Rib Waveguide: Design and Parameter Optimization	Huriye Gencal , Mustafa Demirtaş, Umut Aydemir
224 - Eco-Defender: Detection of aphids using YOLOV5 model and their eradication using a precise laser equipped on an autonomous rover	Tejaswini B , Ankitha K, Vamshi J Gowda, Sathvik T S Nag, Nivedita Kasturi
419 - GWO-WOA-AOA: Multistage Hybrid Meta-heuristic Optimization Approach	Timur Lale
Session 28. (VROOM3) (Virtual) Chair: Ali Döner	Date: June 28, 2025
	Time (GMT+3): 11:15 am - 12:30 pm
Meeting ID: 885 1693 4584	Password: 233614
Paper	Author (s)
540 - The Impact of Cloud Computing Technologies on Advancing Digital Literacy for Rural Revitalization in the Digital Economy	Tingting Rao , Tingting Xu
464 - Benchmarking CNN Architectures for Eye Disease Detection with Transfer Learning Techniques	Tolgahan Keleş , Muhammet Ali Aykanat, Rifat Kurban
380 - Advancing Colorectal Polyp Detection and Segmentation Through YOLOv11 Architecture	Tolgahan Gulsoy , Elif Kanca Gulsoy, Elif Baykal Kablan, Selen Ayas
269 - Multi-layer Secure Authentication Using Morse Code and Eye Blink Detection	Sushmitha S , Prasad B Honnavalli, Sapna V.M
330 - Power Consumption Analysis of ESP32 and Arduino Nano for Low-Power Applications	Hasan Demir, Ilayda Selcuk , Atıl Emre Cosgun
168 - Mechatronics on Evolutionary Biology, Bio-inspiration and Biomimetics Turned into Space Technologies for the Moon	Jose Cornejo
170 - Skin Cancer Detection through Mobile Applications using Artificial Intelligence: Innovative review	Selso Noe Sanchez Neyra, Enrique Sanchez Portugal, Jose Cornejo
Lunch 12:30 pm - 1:30 pm	

Session 29. (HALL 108) (In-Person)	
Chair: Bayram Bala	
Date: June 28, 2025	
Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
110 - Energy Efficiency and MAC Protocols in Wireless Sensor Networks: Terrestrial, UAV-Assisted, and Underwater Applications	Sami Aık , Selahattin Kosunalp
49 - Leukemia White Blood Cell Classification Using DenseNet121 Embeddings and Ensemble Learning	Tuğe Gksu , Zeki Kuş, Musa Aydın
397 - Comparative Performance Analysis of ROS 2 Local Controllers on an Autonomous Mobile Robot	Özcan Koşar , Cihat Talat Akpınar, Akif Durdu
525 - E-ticaret Oyunlaştırma Uygulamaları Kullanıcı Kaybı Tahmini	Onur Arda Raştak , Seluk Aıkılın, Emre Renberoğlu, Sinan Keeci
527 - Topluluk Öğrenimi Kullanılarak E-Ticarete Perakende Satış Tahmini	Mert Güneş , Mehmet Ali Ekmiş, Emre Renberoğlu, Mustafa Buğra Yılmaz
249 - A Decision Support System for Developing Marketing Strategy in Pharmaceutical Industry	Irem Ucal Sari , Yeliz Unal Yılmaz
452 - A Hybrid Approach Combining Neural Networks and Signal Processing for Indoor Temperature Detection Using Plants' Bioelectric Potential	Hasri Akbar Awal Rozaq , Eren Mert Özen, Muhammed Kürşat Altıparmak, Oktay Yıldız
327 - Early PCOS Diagnosis with Minimal Features via Explainable Machine Learning	Selahaddin Batuhan Akben, Hilal Yumrutaş
Session 30. (VROOM1) (Virtual)	
Chair: Ebubekir Yasar	
Date: June 28, 2025	
Time (GMT+3): 1:30 pm - 3:30 pm	
Meeting ID: 868 9876 1291	Password: 061129
Paper	Author (s)
364 - Clustering of Countries Based on Happiness Index	İlker Gür , Ferhat Atasoy
505 - Machine Learning-Based Antenna Selection and Secrecy Capacity Analysis	Burak Erdurak , Eylem Erdoğan, Filiz Gürkan
128 - Convolutional Neural Network for Joint Detection and Material Classification of Breast Tumors	İbrahim Halil Bayat , Semih Doğu, İbrahim Akduman
353 - Fuel Consumption Prediction from Car Images Using CNN-Based Deep and Transfer Learning for Energy Efficiency and Sustainability	Mehmet Ali Bilici, Ramazan Toklu, Aymane El Khader , Pelin Canbay
201 - The Transformative Power of AI in Cybersecurity	Mohammed Adnan Ahmed Ahmed , Mohammed AL-Hubaishi
255 - Automated Design of Attention-Integrated CNN Architectures	Mehmet Zahid Akpolat , M.Fatih Demirci
448 - Smart and Innovative Approaches in Fault Detection Mechanisms of PV System	Mehmet Hasır , Alper Nabi Akpolat, Kürşat Ayan
529 - Automatic segmentation of traumatic brain injury lesions on head CT scans using U-Net deep learning architecture	Merve Balaban , Mehmet Süleyman Yıldırım, Mesut Furkan Yazar, Elif Kır Yazar, Kadir Çorbacı, Gürkan Güneri, Erhan Arıkan, Bade Güle, Emre Dandıl
398 - Application of AI in Gamified Learning Objects for Cybersecurity Forensics	Milen Sotirov , Valentina Petrova, Miroslav Tsvetkov
167 - Lean Six Sigma for Industry 4.0 to Improve Sustainability and Supply Chain Efficiency in Manufacturing Companies: A Systematic Review	Jean Meller Cochachin Gutierrez, Melva Neida Magallanes Correa, Juan Manuel Vasquez Espinoza, Jose Cornejo

Session 31. (VROOM2) (Virtual) Chair: Muhammed Çelik	Date: June 28, 2025
	Time (GMT+3): 1:30 pm - 3:30 pm
Meeting ID: 890 2802 3607	Password: 569117
Paper	Author (s)
270 - High-Precision Agricultural Analysis via YOLOv9 and U-Net on Drone Imagery	Mehmet Metin Ahves, Ahmet Fethi Bayer, Ipek Neslihan Alpugan, Behiye Sahin
271 - Integrating Drones and Deep Learning for Automated Detection of Invasive Species	Fatma Nur Boratav, Kemal Batu Halas, Behiye Sahin , Mehmet Metin Bogdan
50 - Cataract Detection with YOLOv11: Hyperparameter Optimization and Performance Enhancement	Neşe Şenay , Meriç Çetin
119 - Hybrid Chaotic Attention Mechanism for 2D Image Classification in Noisy Environments	Noor Baha Aldin
463 - Design and Evaluation of a TIDDD Controller with Gorilla Troops Optimization in FES Systems	Furkan Heybetli , Mustafa Sinasi Ayas
219 - A Hybrid Recommender System using Louvain Community Detection in Complex Networks	Geethika Sindhu Balla , Srilatha Tokala, Murali Krishna Enduri
108 - Strategies for Class Imbalance in Emotion Analysis: A Comparative Evaluation	Giray Yıldırım , Metin Soyalp, Mehmet Keskinöz
458 - Multi-Method Text Summarization: Evaluating Extractive and BART-Based Approaches on CNN/Daily Mail	Yasin İnal, Gokhan Bakal , Muhammed Esit
129 - Design of a PID Controller with a Predictive Term for Voltage Level Regulation in a Power System	Erdinc Sahin , Mustafa Sinasi Ayas
Session 32. (VROOM3) (Virtual) Chair: Ali Döner	Date: June 28, 2025
	Time (GMT+3): 1:30 pm - 3:30 pm
Meeting ID: 857 3982 2680	Password: 351592
Paper	Author (s)
320 - Python-Based Predictive Modeling for Agriculture: A Human-Centered Approach to Land Suitability Assessment	Zielieba Alberic Queneth Hien , Mohammed Sayim Khalil
58 - Post-Quantum Security for Blockchain and Healthcare Data Management: A Review	Özgür Karaduman, Zeynep Buse Gürbüz , Muharrem Tuncay Gençoğlu, Haluk Eren
61 - An Optimized Watermarking Technique for Medical Images using Dimension Reduction	Zeynep Çetinkaya , Fahrettin Horasan
545 - An Investigation into AI-driven real-time Network Traffic Classification and Anomaly Detection in Complex Network Environments	Xinxia Li
282 - Ethics and Security in the Digital World: Recommendations for Cybersecurity Strategies and Practices in Turkey	Cevat Özarpa, İsa Avcı, Yahya Zakrya Khan
23 - Comparative Study Of Gradient Optimizers For Enhanced Skin Cancer Image Analysis	William Olurotimi Falana
520 - Sentiment Analysis Dataset and Web Application for Turkish Tweets	Wisam Elmasry
93 - AI-Based CRM Platforms for Transforming Customer Experience with Distributed Web Systems	Vassil Milev, Marian Ileana , Pavel Petrov
114 - Improving CRM Functionality in Medical Systems through Blockchain and Distributed Web Systems	Marian Ileana , Pavel Petrov, Vassil Milev
130 - Quantum ARQ Protocols for Ultra Reliable Low Latency Communications	Mahmut Aykaç
Coffee Break 3:30 pm - 4:00 pm	

Session 33. (VROOM1) (Virtual)		Date: June 28, 2025
Chair: Ebubekir Yasar		Time (GMT+3): 4:00 pm - 6:30 pm
Meeting ID: 819 6952 1791		Password: 125478
Paper	Author (s)	
57 - An Algorithm to Generate Synthetic Dataset for Modern Intelligent Spectrum Sensing in Cognitive Radio Networks	Md. Tofail Ahmed , Mousumi Haque, Yosuke Sugiyura, Tetsuya Shimamura	
185 - Enhanced Intrusion Detection for IoT Networks Using Machine Learning Approach	Mohammed AL-Hubaishi, Mehdi Hachana	
423 - Exploring Digital Mobile Forensics in 5G: A Comprehensive Survey on Security, Countermeasures, and Proactive Forensic Approaches	Hitesh B B , Himanshu Srivastava, Radhika M Hirannaiah, Prasad B Honnavalli	
328 - Optimal Location Determination of Electric Vehicle Charging Stations in Trabzon Province Using the Fox Optimizer	Adem Özlü , Taha Şükrü Baltacı, Yahya Danayiyen	
471 - A Comparative Study of Classical Spectral and Spatial Feature Extraction Methods for Fatigue Detection via EEG Signals	Arslan Mohammad Zahid , Yavuz Giray Subaşı, Aysa Jafari Farmand	
514 - Explainable Deep Learning for Breast Cancer Diagnosis Using NODE and FT-Transformer Models: A SHAP and LIME-Based Interpretability Study	Burcak Asal	
515 - Interpretable House Price Prediction Using Ensemble Learning and Explainable AI Techniques	Burcak Asal	
444 - Aspect Based Sentiment Analysis of Job reviews	Rithwik B, Darshith Srikanth , Chandra Priya, Bhodhitha K S , Saritha K	
469 - Optimizing Accuracy and Reliability in Power Load Forecasting Using a Data-Driven RF and LSTM Hybrid Framework	Davut Ari , Mehmet Burukanlı	
157 - The Effect of Selfish Nodes on the Performance of Event-Based Trust Management In VANETS	İpek Abasikeleş Turgut	
Session 34. (VROOM2) (Virtual)		Date: June 28, 2025
Chair: Muhammed Çelik		Time (GMT+3): 4:00 pm - 6:30 pm
Meeting ID: 859 7812 8756		Password: 130829
Paper	Author (s)	
473 - Kemik Kırığı Sınıflandırması için Derin Öğrenme Mimarilerinin Karşılaştırmalı Analizi	Mehmet Samet Yuşan , Ertan Bütün	
382 - A Rapid Prototyping Approach for 3D-Printed Horn Antennas in X-Band Applications	Mahmut Demirok , Mohammadreza Asadi, Semih Doğu	
395 - Radiomics-based HCC detection with the entire Liver MRI using nature-inspired feature selection algorithms	Batuhan Ünlü, Turgay İbrikçi, Funda Raziye Mert	
475 - The Impact of Dimensionality Reduction Techniques on Classification Performance in Dry Bean Variety Classification Using Machine Learning	Berkay Gebeş , Durmuş Özkan Şahin	
365 - Compression of Convolutional Neural Networks Employing Tensor Train and High Dimensional Model Representation	Berna Yılmaz , Süha Tuna	
112 - Institutionalizing Technological Foresight: A Multi Domain Evaluation Model for Strategic Investment Decision Support	Doruk Can Mutlu , Hasan Tolga Ünal, Arif Furkan Mendi, Ömer Özkan, Mehmet Akif Nacar	
381 - Enhancing Hyperspectral and Multispectral Image Fusion Using High Dimensional Model Representation	Efe Kahraman , Süha Tuna	
156 - Advancements in Weapon Detection Systems: Leveraging Deep Learning for Enhanced Security	Kadir Tekindor , Enes Ayan	
115 - Design of Input Shapers for Residual Vibration Control of Flexible Systems and Optimization with Genetic Algorithm	Ferhat Kaya , Çağlar Conker	
509 - Healthify-Based Health Support Automation Running on Multiple Mobile Operating Systems	Gökhan Uçkan , Engin Oğuzay, Hasan Kaçar, Engin Kızılyar, Batuhan Demiray	
399 - Fault Prediction in Energy Systems: Telemetric Data and Machine Learning Approaches	Hasan Hüseyin Yurdagül , Umut Zaim, Adem Seller, Hatice Özdemir, Gözde Uyğur, Mehmet Fatih Akay	

Session 35. (VROOM3) (Virtual) Chair: Ali Döner	Date: June 28, 2025
	Time (GMT+3): 4:00 pm - 6:30 pm
Meeting ID: 853 4030 8835	Password: 556740
Paper	Author (s)
324 - Development of Seam Tracking Sensor in ROS Environment	Ali Yıldız, Nurettin Gökhan Adar
367 - Fake News Detection on Social Media Data using Community Notes with Machine Learning	Elifnaz Arıcı, Mehmetcan Bozkuş, Sultan Zeybek
455 - A Dynamic TOPSIS-based Handover Decision Algorithm in Ultra-Dense Mobile Heterogeneous Networks	Emin Tarık Iseri, Ibraheem Shayea
235 - Real-Time Turkish Video Text Detection and Recognition	Doğukan Uykun, Hakkı Alparslan İlgin, Memduh Köse
379 - Remote Sensing Scene Image Classification with Swin Transformer-Based Transfer Learning	Elif Kanca Gulsoy, Tolgahan Gulsoy, Selen Ayas, Elif Baykal Kablan
321 - A Smart Analog Filtering Approach For Laser Range Finder Systems	Emrah Bölük, Atilla Uygur
472 - Face Mesh Özelliklerine Dayalı Derin Öğrenme ile Dikkat-Duygu-Yorgunluk Tespiti	Emre Öz, Ahmet Emir Belkan, Arif Emre Yaman, Kadir Gümüş, Alperen Karabudak, Selma Yılmazyıldız Kayaarma
355 - Empirical Evaluation of Various Metaheuristics for Efficient Feature Selection in High-Dimensional Bioinformatics Data	Esra Çelik, Seda Erden Dertli, Deniz Dal
474 - Evolution of Smart Manufacturing Systems: The Role and Future of Industry 4.0 Technologies	Esra Çelik
569 - Application of Machine Learning in Investment Risk Assessment and Decision Optimization	Wei Zhu, Hongwen Zhou
557 - A Gait Fall Detection System for the Elderly Based on Wearable Devices and Machine Learning Algorithms	Wenhu Xu, Yutian Chen, Qianyi Zhang, Chengmeng Zhang, Gong Chen, Yang Xiao
289 - Music Generation Using RNN-LSTM with Self-Attention Mechanism	Mahmoud Abdelalim, Mohammad Bashar, Hazem Nemer, Wisam Elmasry
Social Activity (City Trip) 4:30 pm - 6:30 pm	