



7th International Congress on Human-Computer Interaction, Optimization and Robotic Applications

Congress Information

Committees
Panel Sessions
Accepted Papers

Invited Speakers
Congress Statistics
Technical Program

May 23-24, 2025 | Ankara-Türkiye (Hybrid)

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- » Zuhaila Mat Yasin, Universiti Teknologi MARA, Malaysia

ICHORA2025 Invited Speaker



Assoc. Prof. Dr. Cabbar Veysel Baysal

Çukurova University, Türkiye

Title: "Medical Robotics: An Overview"

Short-Bio:

Cabbar Veysel Baysal was born in Adana, Turkey. He received the B.S. and M.S. degrees in electrical and electronics engineering from Middle East Technical University, Ankara, Turkey, in 1990 and 1993, respectively, and the Ph.D. degree in electrical and electronics engineering from Cukurova University, Adana, in 2006. From 1993 to 2009, he was an Engineer and a Manager in national and multi-national companies such as Unilever, Amylum Nisasta, and CJSC Intercom, designing and implementing many plant-scale automation and electrical power projects. He had also served as a Consultant for industrial projects. From 2009 to 2010, he was a Visiting Professor with the Robotics Laboratory, at Universidad Carlos III de Madrid, Spain. From 2012 to 2024, he was an Assistant Professor at the Department of Biomedical Engineering, at Cukurova University. He is the author or coauthor of about 25 research publications between ISI/Scopus papers and conference papers. His current research interests include rehabilitation robotics, bio-inspired robotics, robot hand grasp synthesis, and intelligent control systems. He is a Senior Member of the IEEE since 2012. He was awarded the Associate Professor title by UAK as of March 2024 and continues to work at the Department of Biomedical Engineering, at Cukurova University. He is an experienced Associate Professor with a demonstrated history of working in the research & industry. He has strong design and services experience in industrial automation, electrical power and energy systems. His research experience is focused on robotics and intelligent control systems. He is a professional, skilled in C/C++, various CAD software and MATLAB, adaptive systems, human-robot interaction, rehabilitation robotics, energy, and engineering.

ICHORA2025 Panel Session

"Avionics & Artificial Intelligence"

Panelists



Ali Berkol
ASELSAN – BITES



Nilsun Okan
ASELSAN – BITES



Uğur Toprak
ASELSAN – BITES
Moderator



İ. Gökçe Demirtaş
ASELSAN – BITES



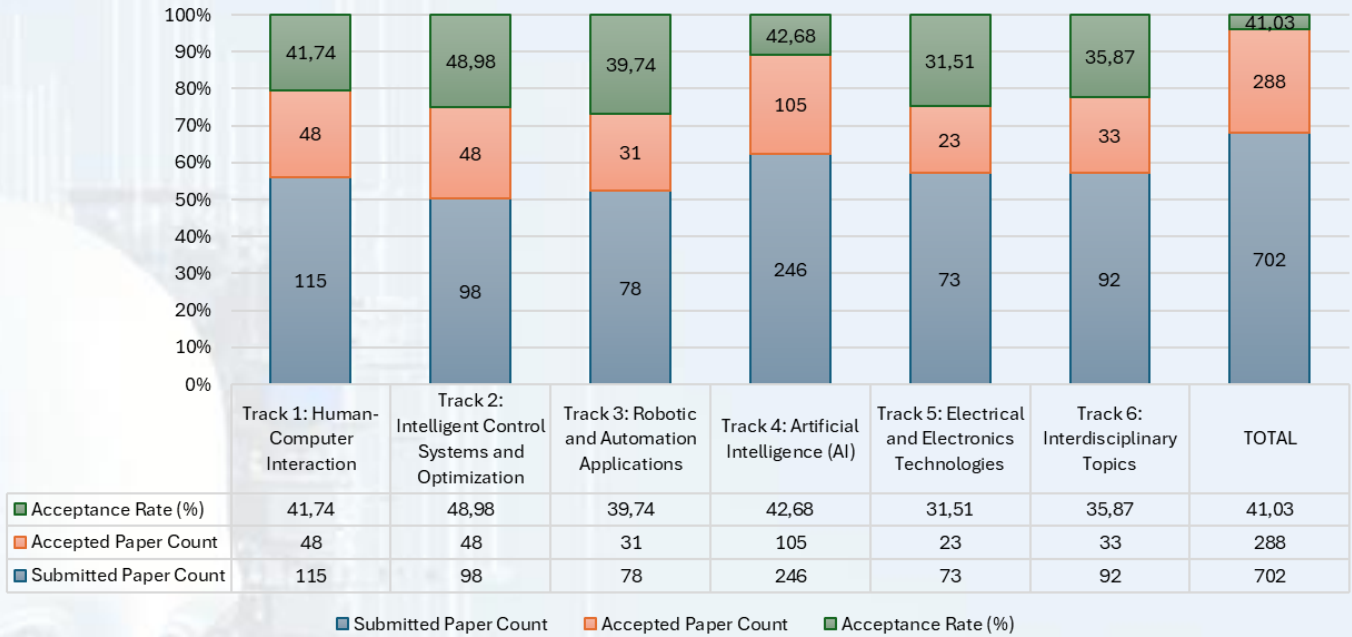
G. Nur Yılmaz
TED University



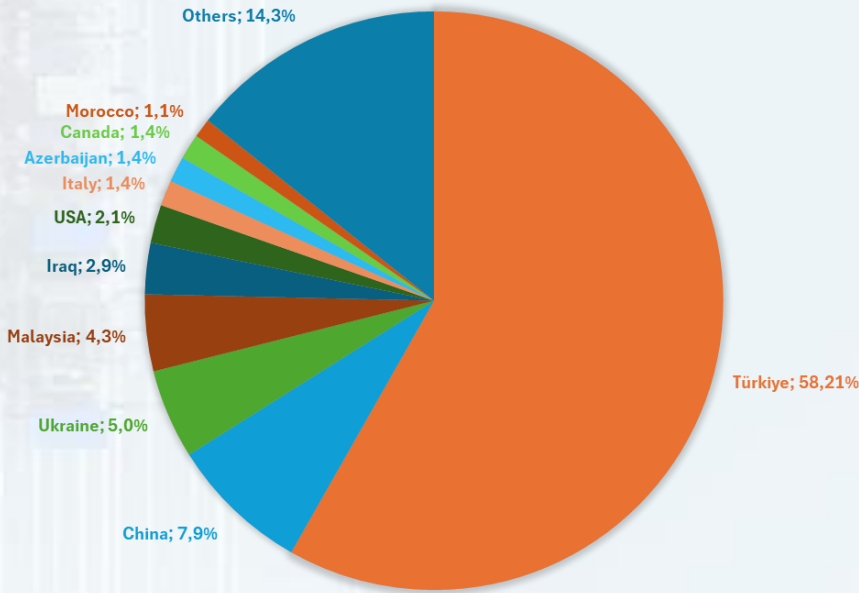
Güven Çankaya
Ankara Yıldırım Beyazıt University

ICHORA2025 Statistics

Acceptance Rate (41.03%)



Top 10 Countries by Number of Speakers



Country	Türkiye	China	Ukraine	Malaysia	Iraq	USA	Italy	Azerbaijan	Canada	Morocco	Others
S. Count	163	22	14	12	8	6	4	4	4	3	40
Rate (%)	58,21%	7,9%	5,0%	4,3%	2,9%	2,1%	1,4%	1,4%	1,4%	1,1%	14,3%

Australia, Azerbaijan, Bangladesh, Brazil, Bulgaria, Canada, China, Croatia, Cyprus, Estonia, Finland, Germany, Greece, Hong Kong, India, Indonesia, Iran, Iraq, Italy, Japan, Libya, Malaysia, Morocco, North Macedonia, Pakistan, Panama, Qatar, Saudi Arabia, Singapore, Syria, Thailand, Türkiye, UAE, UK, Ukraine, USA

ICHORA2025 Accepted Papers

ID	Title	Author(s)	Speaker
1	Comparative Analysis of Normal and ASD EEG Data Using Hjorth Parameters	Muliyadi Muliyadi, Melinda Melinda, Yuwaldi Away, Syahrul Gazali	Muliyadi Muliyadi
17	Cost Distribution in ICT Infrastructure During the AI Era: A Model for Data Centers, Power Grids, and Telecommunications	Ioannis Patias	Ioannis Patias
18	A Securing Transmitted Data in Internet of Autonomous Vehicles	Abdulrahman Alamer, Sultan Basudan, Yunus AlQasim	Abdulrahman Alamer
26	SAM Based Automatic Object Segmentation Based on User Selection	Muhammet Tarık Yılmaz, Muhammed Ali Pala	Muhammet Tarık Yılmaz
27	A Unique Web 3 Product-NFT Usage in Healthcare	Hüseyin Ünözkan	Hüseyin Ünözkan
28	Application of Generative Artificial Intelligence from Neural Networks in Data Centers	Antonio Cortes	Antonio Cortes
29	Artificial Intelligence in Telehealth: Enhancing Diagnostic, Monitoring, and Accessibility Solutions	Saket Ganti	Saket Ganti
32	Capturing Aerodynamic Characteristics of ATTAS Aircraft with Evolving Intelligent System	Aydoğan Soylu, Tufan Kumbasar	Aydoğan Soylu
33	Elliptical Antenna Array Synthesis using Puma Optimization Algorithm	Ali Durmuş, Fırat Özbay	Fırat Özbay
34	Leader Selection for Intracompany Projects Using Multi-Criteria Decision Making Techniques	Nisanur Köleoğlu, Yunus Eroglu	Nisanur Köleoğlu
35	Imitation Learning for Autonomous Driving: Insights from Real-World Testing	Hidayet Ersin Dursun, Yusuf Güven, Tufan Kumbasar	Hidayet Ersin Dursun
43	Predicting Compulsory Earthquake Insurance Tendencies In Turkey Using Machine Learning Algorithms	Elif Serra Bayram, Ezgi Aktar Demirtas	Elif Serra Bayram
45	Global Numerical Optimization Using Tent Chaotic Maps and Golden Sine Mechanism Enhanced Artificial Electric Field Algorithm	Afi Feda, Ezgi Ulker, Abosede Tibetan, Opeoluwa Ojekemi, Oluwaseun Ojekemi, Oluwatayomi Adegboye	Oluwatayomi Adegboye
46	Strawberry Ripeness Detection: Optimizing Harvesting Efficiency with YOLOv11	Tahsin Soyak, Nur Bilge Özcan, Gökalep Çınarlar	Tahsin Soyak
54	MEGUX: A UX Model for Mobile Educational Game Evaluation	Sharifah Nurulhikmah Syed Yasin, Roslina Ibrahim	Sharifah Nurulhikmah Syed Yasin
57	Efficient Path Planning for Differential Drive Mobile Robots Using the Rapidly-Exploring Random Tree (RRT) Algorithm	David W. Simone, Jean M. Pavos, Nahom Kidane, Muhammed Nurullah Avran	Muhammed Nurullah Avran
58	Trajectory Tracking and Control of Differential Drive Mobile Robots Using Feedback Linearization	Nahom Kidane, Muhammed Nurullah Avran, Jean M. Pavos, David W. Simone	Muhammed Nurullah Avran
59	Brain Tumor Classification using Deep Learning: Robustness Against Adversarial Attacks and Defense Strategies	Hafsa Khalid, Cem Direkoglu	Hafsa Khalid
60	Recognition of Hand Gestures Using a Smart Glove with Inductive Sensors	Shokoufeh Davarzani, Maryam Ravan, Reza K. Amineh	Shokoufeh Davarzani
61	Optimized YOLOv8 (YOLO-Prime), M-CNN, and Dynamic Linear Regression for Real-Time Aerial Vehicle Detection in Embedded Systems	Halil Hüseyin Çalışkan, Talha Koruk	Halil Hüseyin Çalışkan

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62	Deep Learning and Remote Sensing for Intelligent Damage Detection in Industrial Pipelines	Melis Duhter, Hilal Kuzu	Hilal Kuzu
63	Autonomous UAV-Based Monitoring of Fuel Tanks Using YOLOv8 for Global Energy Management	Nesli S. Azdavay, Leslaw M. Nowakowska, Zofia G. Zajac, İlayda Boz	İlayda Boz
70	Kansei Engineering Applications to Multifunctional Cooker	Nimet Karabacak	Nimet Karabacak
71	Travel time estimation of New York City taxis: An ensemble machine learning model	Resul Özdemir, Murat Taşyürek, Veysel Aslantaş	Resul Özdemir
72	Products Purchased by Those Who Viewed This Item	Enis Teper, Mustafa Keskin, Okan Kaya, Semih Albayrak	Enis Teper
73	Artificial Intelligence-Driven Decision Support System for Career Planning	Batuhan Kışlacı, Hanife Yıldızhan, Rasim Fatih Zengin, Zeliha Ergül Aydın	Batuhan Kışlacı
74	A Deep Learning Based Fusion Model For Plant Leaf Disease Classification	Muhammad Hamza Ishaq, Cem Direkoglu	Muhammad Hamza Ishaq
75	Machine Learning-Supported Strategic Procurement Application for a Construction Chemicals Manufacturer	Mehmet Erol Kara, Ezgi Aktar Demirtas, Aydin Sipahioğlu	Mehmet Erol Kara
76	Investigation of Machine Learning-Based Algorithms for Identification of Diabetes Disease	Ali Shafique, Arslan Saleem, Abdul Sami, Muhammad Hamza Ishaq, Hazrat Bilal, Yeliz Yesilada	Ali Shafique
77	Color-Spatial AutoAugment: Automated Image Augmentation and Policy Optimization	Hussien Al-Khafaji, Timur İnan	Hussien Al-Khafaji
78	Improved YOLOv9 for Real-Time Traffic Sign Detection in Intelligent Transportation Systems	Behiye Sahin, Ipek Neslihan Alpugan	Behiye Sahin
79	Enhancing Occupational Safety through Deep Learning-Based Helmet Detection in Hazardous Workplaces	Koksal Semercigil, Ipek Neslihan Alpugan, Behiye Sahin, Mehmet Metin Bozbey	Behiye Sahin
80	Scalable Optimization for Drone and Mobile Robot Routing Using Genetic Algorithms	Orxan Shahbazov, İlqar Mamishov, Nesli Elxansoy, Zeynep Sahutoglu	Zeynep Sahutoglu
81	The Impact of Aerial Vehicle Quantity and Battery Capacity on Task Route Planning in Multi-Hybrid Systems	Sukur Mehraliyeva, Nesli Elxansoy, Orxan Shahbazov, Zeynep Sahutoglu	Zeynep Sahutoglu
92	Design of Electronic Chess Board Using Analogue Hall-effect Sensors for Piece Identification	Justin Julius Chin Cheong, Praneel Bhatia, Matthias Krauledat, Ronny Hartanto	Justin Julius Chin Cheong
93	Advancing Solar Panel Inspections: UAV-Based Detection of Cracks Using YOLO Algorithms	Mahrus Thabit Moghadam, Funda Sermsar, Mert Akin Maydamis, Merve Koca	Merve Koca
94	Efficiency of Adding a New Template to Network Management System and Zabbix Application	Mehmet Kara, Gökhan Tuğrul	Mehmet Kara
95	Development of a Virtual Reality Traffic Simulation to Analyze Road User Behavior	Ahmad Mohammadi, Peter Park, Mehdi Nourinejad, Muhammed Shijas Babu Cherakkatil	Ahmad Mohammadi
97	Introducing Interval Neural Networks for Uncertainty-Aware System Identification	Mehmet Ali Ferah, Tufan Kumbasar	Mehmet Ali Ferah

ID	Title	Author(s)	Speaker
98	Forming Connected Multi-Robot Teams Utilizing Aerial Robots	Deniz Ozsoyeller	Deniz Ozsoyeller
99	Investigating EEG Band Dynamics in Motor Imagery Tasks: A Topographic Brain Mapping Study of a BCI-Trained Individual	Esra Kaya, İsmail Sarıtaş	Esra Kaya
100	Early Detection of Diabetic Foot Ulcers through CoAtNet Model: A Scalable Solution for Healthcare Integration	Muhammad Abdullah Khan, Muhammad Zaman, Tanzila Kehkashan, Nikola Ivković, Vedran Uroš, Adnan Akhunzada	Muhammad Zaman
120	Real-Time Object Detection: A Comparative Analysis of YOLO, SSD, and EfficientDet Algorithms	Elif Nur Yılmaz, Tuğba Selcen Navruz	Elif Nur Yılmaz
123	Design of Assistive Wearable Smart Belt for Patients with Parkinson's Disease	İdil Yemez, Melek Seza Körlü, Atajan Rovshenov	İdil Yemez
125	Optimized Design of an Automated Drying System for Cataphoresis Exit Applications	Pinar Demircioglu, Ismail Bogrekci, Emre Benzer, Gorkem Aydin, Halil Ekici	Gorkem Aydin
127	Detection of Brain Tumors with AI Techniques	Can Yeşilaras, Sarp Yıldız, Atajan Rovshenov, Ali İhsan Sarı	Can Yeşilaras
130	YouTube Video Comments Sentiment Analysis Using Custom NLP Model	Yavuz Selim Ercikan, Wisam Elmasry	Yavuz Selim Ercikan
131	Open-Circuit Fault Detection in T-Type MLI Using XGBoost: A Machine Learning-Based Approach	Murat Karakılıç, Hasan Hataş, İshak Pacal	Murat Karakılıç
133	A Comparative Analysis Between a Custom Optimization Experiment with Confidence Intervals in AnyLogic and OptQuest	Soheila Antar, Felipe Haro	Soheila Antar
134	Identifying Limitations in End-to-End Testing: A Systematic Review of Coverage Analysis Techniques	Blerand Zendeli, Artan Luma, Besnik Selimi, Blerim Rexha	Blerand Zendeli
135	Detecting Clickbait Turkish Titles in YouTube Videos Using Machine Learning	Enes Baydar, Mürsel Uçar, Sibel Dağ, Zeliha Ergül Aydın	Mürsel Uçar
137	Nonlinear Spring-Damping Modeling for Cable-Driven Bionic Fingers: A Pressure-Dependent Approach	Osman Bayram, Onur Köroğlu, Bilge Toprak, Emre Gür, Mehmet İscan	Osman Bayram
138	Identification and Interpretation of Focal Center of Brain Activity from EEG Signal Recordings	Onur Koçak, Ziya Telatar, Cansel Ficici	Onur Koçak
140	Ontology-Based Intelligent Control and Optimization of Ukraine's Energy System	Natalia Chernova, Olena Serhiienko, Inna Ippolitova, Oleksiy Petrukhnov, Oleksandr Kaganovskyy, Andrii Negliad	Natalia Chernova
156	IoT-Based Smart Farming: Benefits, Attacks, and Security Solutions	Kadir Ileri	Kadir Ileri
157	Reducing Chattering by Hybrid Control of a DFIG-based Wind Power System	Farah Echiheb, Badre Bossoufi, Safae Merzouk	Farah Echiheb
158	Performance Optimization of Photovoltaic Water Pumping Systems: A Comparative Study of PSO-Based and ANN-Based MPPT with Real-Time Validation	Ikram Saady, Btissam Majout, Badre Bossoufi, Mohammed Karim, Safae Merzouk	Ikram Saady
159	An Exploration of BERT and Its Diverse Applications	Bewar Neamat Taha, Muhammet Baykara, Ferhat Ucar	Bewar Neamat Taha

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160	Examining the Impacts of Different Characteristics of Water on Coplanar Patch Antenna	Mehmet Duman, Oğuzhan Mert, Rabia Özkan, Feyza Ramazan, Yusuf Yılmaz, Mustafa Duman, Łukasz Knypinski	Mehmet Duman
161	Implementation Analysis of Collaborative Robot Digital Twins in Physics Engines	Christian König, Jan Petershans, Jan Herbst, Matthias Rüb, Dennis Krummacker, Eric Mittag, Hans D. Schotten	Christian König
162	A Comprehensive Investigation into Strip Steel Defect Detection using Traditional Machine Learning and Deep Learning Models	Betül Erkantarıcı, Rifat Kurban, Gokhan Bakal, Abdulkadir Köse	Betül Erkantarıcı
163	Design of Cloud Computing System for Optimized Power Electricity Consumption in Office Buildings	Ali Aleqaby, Laith A. Al-Anzy	Ali Aleqaby
166	Optimized Soft Voting Ensemble Model for Predicting Net Blotch Disease in Spring Barley with Meteorological Data in Turkey	Recep Sinan Arslan, Nilüfer Akci, Dilara Çelik, Bahatdin Daşbaşı, Kadir Aytaç Özeydin, Teslima Daşbaşı	Recep Sinan Arslan
167	Energy Generation Forecasting in Biomass Power Plants: Integrating AI and Smart Grid Technologies	Abdullah Kürşat Aktar, Murat Karakılıç, İshak Pacal	Abdullah Kürşat Aktar
169	Comparative Study of EKF and SPKF for SOC Estimation of Lithium-ion Batteries	Ahmet Melih Gurbuz, Guven Komurgoz Kiris	Ahmet Melih Gurbuz
195	Enhancing Industrial IoT Cybersecurity with Explainable AI: A SHAP and LIME-Based Intrusion Detection Methodology	Burçak Asal, Alperen Çakın, Selma Dilek	Burçak Asal
196	Prioritization of indicators in the scheduling of examinations for full-time students in higher education	Fatme Rashidova, Aldeniz Rashidov	Fatme Rashidova
198	Enhancing Airline Passenger Demand Forecasting in Australia: Machine Learning Models with Bayesian Optimization	Mehmet Özçalıcı, Hasan Emin Gürler	Hasan Emin Gürler
199	"AI doesn't have a soul." Exploring Gen Z's Perceptions of Social Chatbots	Mohammad Amin Kuhail, Jihene Mrabet, Rafiq Hijazi, Justin Thomas	Mohammad Amin Kuhail
200	A Computationally Efficient Approach to Nonlinear Control and Estimation of a Slider-to-Gimbal Platform	Esra Kurhan, Berk Vatan, Altay Dursun, Emre Gür, Mehmet Iscan	Esra Kurhan
201	Plant Disease Classification Using an Ensemble Learning Model of Convolutional Neural Networks and Vision Transformers	David Aderinwale, Melike Sah	David Aderinwale
202	Enhancing Explainability of Chemical Oxygen Demand Prediction Models for Industrial Wastewater Treatment in Delfzijl, the Netherlands	Kamil Dimililer, Ismaila Abubakar Bobboi	Ismaila Abubakar Bobboi
203	Improved Conjugate Gradient Algorithm For Removing Noise From Images	Hisham M. Khudhur, Ruaa Z. Mahmood	Hisham M. Khudhur
212	Machine Learning for Drug Discovery and Development	Ans Ibrahim Mahameed, Fatima Ayad Abd Al Zahraa, Ahmed Bahaaulddin A. Alwahhab, Ahmed A. Radhi, Bourair Al-Attar, Anna Dronach, Nadheer Mahmoud Ameen	Ans Ibrahim Mahameed

ID	Title	Author(s)	Speaker
213	Generating Synthetic EEG Data for Psychiatric Disorders with Variational Autoencoders	Burcu Çınar	Burcu Çınar
215	Machine Learning-Based Orange Quality Classification: A Hyperparameter Optimization Approach Through Puma Optimizer	Harun Akbulut, Sema Atasever, Eyüp Sıramkaya	Sema Atasever
216	Prediction of fake news on X: An analysis of LLMs and machine learning methods on TruthSeeker	Dilara Çelik, Recep Sinan Arslan	Dilara Çelik
217	ASL UNDERPRESSURE: Gamification of American Sign Language Learning Through Human-Computer Interaction	Osama Atia, Hussam Asskar, Oussame El Kharchy, Wisam Elmasry	Hussam Asskar
220	Coğrafi Bilgi Sisteminde Kullanılan Harita Altlıklarındaki Görüntülerin Telif Hakkının Korunması için Yarı-kör Sağlam ve Kalite Garantili Damgalama Yöntemi	Ertuğrul Gül	Ertuğrul Gül
221	Evaluation of Anomaly Detection and Adversarial Attacks in the IEEE 9-Bus System	Emrehan Bingöl, Mustafa Şinasi Ayas, İsmail Hakkı Altaş	Emrehan Bingöl
222	Machine Learning-Based Battery State of Health Prediction Using Discharge Voltage	Gökhan Manav, Muhammed Mutlu Yapıcı, Ali Saygın	Gökhan Manav
225	Towards 6G Semantic Communication: Technologies, Applications, and Research Challenges	Sümeye Nur Karahan, Osman Kaya	Sümeye Nur Karahan
226	LQG/LTR Controller Design to Single-Link Rotary Flexible Joint	Furkan Yazıcı, Ufuk Güner	Furkan Yazıcı
227	Deep-Learning-Based Image Preprocessing and Classification for Kidney Disease Detection in CT Scans	William Olurotimi Falana, Ali Serener, Ayodeji Falana, Samuel Nii Tackie	William Olurotimi Falana
228	A Universal Method of Digital Content Integrity Expertise	Ivan Bobok, Alla Kobozieva, Oleksandr Laptiev, Viktor Speranskyy	Viktor Speranskyy
229	Detection of Tobacco Use through Motion Analysis from Camera Images	Zilan Aze Karabay, Mustafa Özden	Zilan Aze Karabay
230	NLP-Driven Fake News Detection: A Machine Learning Perspective	Mert Korkut Çoban, Gokhan Bakal	Mert Korkut Çoban
232	A Preliminary Research on Lightweight approach of Noise Reduction in Image Processing: Gaussian Smoothing and Super-Resolution via Resizing	Kamil Dimililer, Rasha Habeeb	Rasha Habeeb
233	Depth Estimation Based Automatic Pose Correction in Hand Images	Betül Koşmaz Sünnetçi, Özkan Bingöl, Eyüp Gedikli, Murat Ekinci	Betül Koşmaz Sünnetçi
234	Screen-cam Resistant Watermarking for Turkish Document Images	Efe Yılmaz Taşyürek, Abdullah Himmet Özcan, Sevinç İlhan Omurca, Erol Gerçeker, Hüseyin Kara	Efe Yılmaz Taşyürek
261	A High-Efficiency LLC Resonant Converter For LED Driver Applications	Yüksel Baş, Erdem Akboy	Yüksel Baş
262	A New Class of Dai-Liao Method for Solving Iteration Problems	Basim A. Hassan, Marwa Muthana Mohammed	Basim A. Hassan
263	A Novel Framework to Reduce Response Times for Fire Stations	Masoud Amirdadi, Ahmad Mohammadi, Peter Park, Mehdi Nourinejad, Adriano Solis, Deryn Rizzi, Tracey Martino	Masoud Amirdadi

ID	Title	Author(s)	Speaker
264	Advancing Medical Video Question Answering Through Large Language Models, Temporal Localization and Causal Reasoning	Hilmi Demirhan, Seetha Gopalakrishnan, Wlodek Zadrozny, Wenwen Dou	Hilmi Demirhan
265	Speech Emotion Recognition Using Hybrid Deep Learning Models and Diverse Acoustic Features	Oluwafemi Ebenezer, Eliane Nsenga, Melike Sah	Oluwafemi Ebenezer
267	Shadow Users: Cyber-Physical Threats from a Human Computer Interaction Perspective	Andrew George Peck, Iain Phillips, Tim Watson	Andrew George Peck
268	Implementing a Method for Privilege Escalation Attacks in Windows Systems	Esra Calik Bayazit, Merve Arac	Merve Arac
269	Design and Development of a Modular Mission Control Board for Autonomous Systems	Şiar Tunçdemir, Ömer Can Tolun	Şiar Tunçdemir
270	Use of Classification Algorithms in the Determination of Diabetes Level and Drug Recommendation Process	Nisa Şahinoğlu, Hasret Irmak Baran, Gulay Cicek	Hasret Irmak Baran
271	Handling Class Imbalance Problem for Diabetic Retinopathy Fundus Image Classification	Chibuzor Iluno, Melike Sah	Chibuzor Iluno
272	Integrating Physical Effects into Action-Conditioned Frame Prediction for Robotic Manipulation	Nicolas Rodriguez Peña, Maximilian Hoh, Samed Doğan, Nico Leuze, Alfred Schoettl	Nicolas Rodriguez Peña
278	Use Of Logic Functions In The Diagnosis Of Hepatitis Disease Through A Web-Based Expert System Design: A Different Approach	Hayri Incekara, Inayet Hakki Cizmeci	Hayri Incekara
282	Stacking Ensemble Based Hybrid Machine Learning Approach for Predicting Obesity Levels	Inayet Hakki Cizmeci, Hayri Incekara	Inayet Hakki Cizmeci
285	Implementation of 3D U-NET for Lung Cancer Classification	Serbay Serpen, Atajan Rovshenov	Serbay Serpen
298	The Analysis of Leakage Inductance for Planar Transformer	Halil Bayramoğlu, Erdem Akboy	Halil Bayramoğlu
300	Critical Analysis of Informal Learning and Affective Design Components in AR for Developing a Conceptual AR Model in Tourism	Siti Salbiah Hamzah, Hasiyah Mohamed, Nurulnadwan Aziz	Siti Salbiah Hamzah
301	A Review of Control Methods in Lower Limb Exoskeleton Robots: From Classical to Machine Learning Approaches	Ali Foroutannia, Masoud Mohammadian, Kumudu Munasinghe	Ali Foroutannia
303	A Comparison Study on the Selection of the Optimum Electrical Equivalent Circuit Model for Lithium-Ion Batteries and Parameter Accuracy Analysis by the Least Squares Method	Seyit Emre Ozcan, Hayri Arabacı	Seyit Emre Ozcan
304	Hand vein recognition using Mask R-CNN	Mehmet Kiyak, Burcu Kir Savaş, Fulya Akdeniz	Mehmet Kiyak
305	Detection of Credit Card Fraud with Machine Learning Methods	Murat Mehmet Koska, Cemal Aktürk, Tarık Talan	Murat Mehmet Koska
306	Comparative Analysis of LSTM and XGBoost for Cryptocurrency Trend Prediction	Drissia Ennagoura, Kamal El Kehal, Khalid El Fahssi, Mohamed El Far, Safae Merzouk, Badre Bossoufi, Mohamed Taj Bennani	Drissia Ennagoura
307	Maximum Period Pseudo-Random Number Generator Filter Based on Hash Function	Eyyub Abbasquliyev, Irada Rahimova, Roman Korolov, Tetiana Milevska	Eyyub Abbasquliyev

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308	Transformatörlerdeki Elektromanyetik Kuvvetlerin Değerlendirilmesi: Açık Devre ve Kısa Devre Koşulları	Kamran Dawood, Güven Kömürgöz	Kamran Dawood
310	Design of an Open Source Piezoelectric Devices for Road Systems of Republic of Türkiye	Alper Doruk Yıldız, Kuzey Ege Hassoy, Atajan Rovshenov, Ali Tunçak	Alper Doruk Yıldız
311	Rule-Based And AI-Based Routing Protocols For Mobile Ad Hoc Networks: A Comparative Review	Maher AL-Mashhadani, Kamel Karoui	Maher AL-Mashhadani
312	An Approach with Effective Guided Filter and Lipschitz Constraint Based CLAHE for Improving X Ray Image Details	Emre Kağan Aytekin, Mehmet Dikmen	Emre Kağan Aytekin
329	Yağlı ve Kuru Tip Transformatörlerde TEDAŞ MLZ Şartnamesine Göre Enerji Kayıplarının Değerlendirilmesi	Kamran Dawood, Furkan Gezer, Güven Kömürgöz, Semih Tursun	Furkan Gezer
330	Güç Transformatörü Türlerinin Finansal ve Fiziksel Özelliklerine İlişkin Karşılaştırması	Kamran Dawood, Furkan Gezer, Güven Kömürgöz, Semih Tursun	Kamran Dawood
331	Error-Corrected Quantum CNN for Gender-Based Micro-Expression Analysis in Affective Computing	Hafiz Khizer Bin Talib, Kaiwei Xu, Yanlong Cao, Muhammad Zaman, Adnan Akhunzada	Muhammad Zaman
333	LWCNN-Based Deep Learning Model for COVID-19 Detection: Performance Analysis on Voice Data	Ipek Atik	Ipek Atik
335	Hidroelektrik, Rüzgar ve Güneş Enerji Sistemlerinde Yapay Zeka ile Sürdürülebilirlik Analizleri	Serdar Mammadov, Mislina Çakalloğlu, Yusuf Yeşilyurt, Pelin Canbay	Serdar Mammadov
336	A Digitalized Business Wargame Model for Foresight-based Future Planning and Decision-Making	Kaan Toraman, Eda Obuz, Merve Durukan Kaya, Serdar Solak	Kaan Toraman
337	A Computer Vision-Based Physical Activity Application for Children with Autism	Eda Obuz, Kaan Toraman, Serdar Solak	Eda Obuz
338	Smart Contracts: Classification Problems	Vladyslav Khvostenko, Stanislav Milevskyi, Illia Bukatych, Dmytro Yevseiev, Oleksandr Iegrashyn, Vadym Kyryk	Vladyslav Khvostenko
339	High-Quality Synthetic Image Generation for Accurate Classification of Brain Tumors Using ACGAN	Mert Büyükdede, Doruk Kılıç	Doruk Kılıç
340	The Impact of Price-Based Demand Response on DSO-TSO Coordination System	Busra Uzun, Serkan Bahçeci, Yeliz Yoldaş, Ahmet Önen	Busra Uzun
341	Ensuring product detection and product counting on the assembly line using deep learning (YOLOv11)	Muhammed Abdullah Özel, Mehmet Yasin Gül	Muhammed Abdullah Özel
342	A Hybrid CGAN-FNN Framework for Robust Hand Gesture Recognition in Real-Time Systems	Bilge Toprak, Onur Köroğlu, Osman Bayram, Emre Gür, Mehmet İscan	Bilge Toprak
346	Speech Recognition of High Impact Model Using Deep Learning Technique: A Review	Hasan H. Hussein, Oguz Karan, Sefer Kurnaz, Ayca Kurnaz Turkben	Hasan H. Hussein
347	Controller Synthesis with a Cone Complementarity Linearization Algorithm for CACC System Under Time-varying Delay	Hilal Bingöl	Hilal Bingöl
348	Hybrid CMOS Low Noise Amplifier with Kapu Optimizer	Zainab Mustafa Hussein, Hassan Jassim Motlak	Zainab Mustafa Hussein

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350	A Three-Level A Stackelberg Game with Virtual Power Plant Clusters Multi-Agent Trading Strategy	Nurcan Yazar, Serkan Bahçeci, Yeliz Yoldaş, Ahmet Önen	Nurcan Yazar
353	The performance of modified SEPIC converter for dynamic conditions with PI controller	Muhammed Mahho, Mehmet Yılmaz, Muhammed Fatih Çorapsız	Muhammed Mahho
354	Building Trust in AI for Public Administration: A Strategic Framework for Transparency, XAI, Participation, and Digital Literacy	Panagiotis Tsarouhas, Konstantinos Grigoriadis	Konstantinos Grigoriadis
355	Support Vector Machines (SVM) in Traffic Prediction for Intelligent Transportation Systems- A comprehension Review	Omar Saghrje, Oguz Karan, Sefer Kurnaz, Ayca Kurnaz Turkben	Omar Saghrje
356	Artificial intelligence in sustainable supplier search: A comprehensive bibliometric analysis using Scopus database	Katerina Fotova Čiković	Katerina Fotova Čiković
357	Feature Extraction with Scalogram-Based CNN Activations and Activity Recognition in Elderly Individuals with Transfer Learning	Esra Kaya	Esra Kaya
358	Detection of Panic Attacks Using Convolutional Neural Networks on ECG Data	Parisa Ebrahimpour M.T., Gokhan Soysal, Osman Erogul	Parisa Ebrahimpour M.T.
359	Optimizing Battery Cooling with Reinforcement Learning: A Dynamic Control Strategy for Energy Storage Systems	Necati Aksoy, Fatih Çakıl, Mustafa Özden	Necati Aksoy
360	Investigation of Structural Response of Active Acoustic Metamaterial Cell	Fevzi Cakmak Bolat, Neven Alujevic	Fevzi Cakmak Bolat
364	K-Faktörünün Transformatör Maliyeti ve Ağırlığı Üzerindeki Etkileri: Karşılaştırmalı Bir Değerlendirme	Kamran Dawood, Muhammed Alperen Çakır, Güven Kömürgöz, Semih Tursun	Muhammed Alperen Çakır
365	Iris Veri Setinde Özellik Seçimi ve Sınıflandırma için Hibrit IPA-ANN Modeli	Samad Hasanlı, Doğan Yıldız, Sercan Demirci	Samad Hasanlı
366	Recent Applications of Machine Learning and Deep Learning in Identifying Alloys with Specific Conductivity	Sahba Tabarraei, Omid Karimi Sadaghiani, Ahmet Ekrem Mermer	Sahba Tabarraei
401	Actor-Critic Reinforcement Learning for Helicopter Trim Actuators: An Optimal Control Approach with Hamilton-Jacobi-Bellman Principles	Batuhan Temiz, Osman Bayram, Onur Köroğlu, Emre Gür, Mehmet Iscan	Batuhan Temiz
402	Websites Quality and Online Success: A Bibliometric Analysis	Muhammet Sait Ağ, Kutan Koruyan, Cigdem Tarhan	Muhammet Sait Ağ
405	Contact Forces in the Gait Cycle: The Role of Different Materials	İsmail Çalığışu, Uğur Fidan	İsmail Çalığışu
406	Review of underwater drones vibration propulsion	Ilian Iliev, Desislava Mihaylova	Desislava Mihaylova
408	Trajectory Generation and Control for UAVs Using PH-Curves and Kolmogorov-Arnold Networks	Fatma Şengüler Çiftçi, Yesim Oniz	Fatma Şengüler Çiftçi
410	Soldering Quality Control With Semi-Supervised Deep Learning Model	Emre Köymen, Bahadır Gölcük, Emrah Üstün	Emre Köymen
411	Project Management for Scientific Research: Strategy, Leadership, and Implementation	Arpan Dutta	Arpan Dutta
412	Impact of Image Filtering Techniques on Deep Learning-Based Kidney Disease Classification Using CT scans	William Olurotimi Falana, Kamil Dimililer	William Olurotimi Falana

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413	Preliminary Design and Methodological Framework for an AI-Driven Decision Support System in Earth Observation Satellites	Abdallah Alabed, Tarık Özkul	Abdallah Alabed
415	Bridging Genetic Algorithms and Gradient-Based Learning: A Case Study on the Dinosaur Game	Ömer Bilgin Bilgili, Kemal Uçak	Ömer Bilgin Bilgili
416	Analyzing Correlations Between Refined Comfort Score, Usability, and Performance in Assistive Technology	Hakan Özcan	Hakan Özcan
417	Advancing Simulation of 6-Mercaptopurine and Methotrexate Therapy by Using Synthetic Childhood Acute Lymphoblastic Leukemia Patients	Utku Kose, Gamze Yuksel, Sadik Kacakci, Mustafa Can Ince, Hakan Sokun	Utku Kose
419	Parçacık Sürüşü Optimizasyon Algoritması Kullanılarak IEEE 33-Bus Sisteminde Elektrikli Araç Şarj İstasyonlarının Optimum Yerleşimi	Achmet Molla, İbrahim Gürsu Tekdemir	Achmet Molla
420	Optimizing Approximate Nearest Neighbor Search for Fashion Image Retrieval	Mustafa Keskin, Alp Arda Yalman, Enis Teper, Emre Rençberoğlu, Sinan Keçeci	Mustafa Keskin
421	Enhancing Fine-Grained Image Retrieval with Advanced Embedding and Loss Functions	Mustafa Keskin, Alp Arda Yalman, Enis Teper, Sinan Keçeci, Emre Rençberoğlu	Mustafa Keskin
422	Evolution of Visual Shopping in E-Commerce: Integrating Object Detection and Image Similarity	Enis Teper, Alp Arda Yalman, Mustafa Keskin, Sinan Keçeci, Emre Rençberoğlu	Enis Teper
423	Development of an Advanced Blockchains' Classification	Illia Bukatych, Iryna Aksonova, Tetiana Milevska, Anton Smirnov, Dmytro Balagura, Mykhailo Zhyhalov	Illia Bukatych
424	Approximate Solutions of Hyperbolic Telegraph Equations Arising in Circuit Theory	Aleyna Akaydın, Ahmed Amara, Mehmet Emir Köksal	Aleyna Akaydın
425	AI-Native Use Cases in 6G	Sedat Çimen, Sümeye Nur Karahan, İsmail Duru, İbrahim Yazıcı	Sedat Çimen
426	Classification of Ear Diseases from Otoscopic Images Using DenseNet121 and Grow-and-Learn Network	Merve Yağmurcu, Özlem Polat	Merve Yağmurcu
427	Reducing Inventory Counting Errors with Machine Learning: A Data-Driven Approach for E-Commerce	Mert Güneş, Mehmet Ali Ekmiş, Emre Rençberoğlu, Mustafa Buğra Yılmaz, Ali Varal	Mert Güneş
428	Enhanced Environmental Awareness and Security for Smart Devices using WiFi-Sensing	Gad Gad, Iqra Batool, Mostafa M. Fouda, Zubair Md Fadlullah, Mohamed I. Ibrahem	Gad Gad
431	EXAD: A Framework for Designing Explanations in Adaptive User Interfaces	Iqra Batool, Gad Gad, Mostafa M. Fouda, Mohamed I. Ibrahem, Zubair Md Fadlullah	Iqra Batool
432	Hybrid Deep Learning for Acute Lymphoblastic Leukemia Diagnosis	Ali Han Özdoğan, Koray Kahraman, Mehmet Chotzoglou Chalil, Selcan Kaplan Berkaya	Ali Han Özdoğan
433	Autism's Disease Prediction Using Deep Learning	Rihab Qasim, Yaqeen Ali, Sura Searan, Nadia Fahad	Rihab Qasim

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436	Importance Of AI In Acoustic Emission Testing and Enhancement Provided Through Compound AI	Zia Uddin, Serdar Dindar	Zia Uddin
437	Cloud-based Ambulance Tracking and Movement Facilitation Through Traffic Light Control	Abeer Khadhim, Laith A. Al-Anzy, Hadeel Abdullah Mohammed	Abeer Khadhim
438	A Human-AI Collaborative Approach for Credit Card Fraud Detection: Integration of LSTM Networks with Interactive Web Interface	Burhanettin Burun, Mehmet Göktürk	Burhanettin Burun
439	Analysing the Friction Effect on Velocity Control of a DC Motor for Gimbal Applications	Ferhat Altunay, Şeniz Ertuğrul, Osman Nuri Şahin	Ferhat Altunay
440	Computability and Explainability on the Evolution of Intelligent Systems	Zeynep Altan	Zeynep Altan
441	Crypto Code Constructions in Post-Quantum Cryptography	Andrii Tkachov, Olha Korol, Natalia Voropay, Sergii Dunaiev, Vadym Stetsenko, Bogdan Tomashevsky	Sergii Dunaiev
454	Deep Learning-Based Multi-Classification of Breast Cancer Ultrasound Images Using Convolutional Neural Networks	Andres Dewendt Urdaneta, Robin Ghosh	Andres Dewendt Urdaneta
455	A Comprehensive RAG-Based LLM for AI-Driven Mental Health Chatbot	Anish Ilapaka, Robin Ghosh	Anish Ilapaka
456	Using Bio-Cryptographic Key Extracted from Heartprint Signal by a Deep Neural Network for Authentication	Orkun Koçak, Saiful Islam, Onur Gümüş, Gökçe Nur Yılmaz	Orkun Koçak
457	Experimental Investigation of Artificial Intelligence Models for Recommender Systems	Onur Özbey, Fatih Kılıç	Onur Özbey
458	NSGA-II Based Optimization of LLC Resonant Converter for 270V to 28V DC-DC Conversion in More Electric Aircraft	Taha Yasin Kıymaz, Murat Taşkıran, Atiye Hülya Obdan, Kamuran Nur Bekiroğlu	Taha Yasin Kıymaz
459	Multi-Parameter Analysis of Biosignals in Long- Term Control Medical Devices Management	Serhii Holdobin, Natalia Brynza, Olha Tiutiunyk, Olena Serhienko, Ihor Sosnov, Pavlo Samus	Serhii Holdobin
460	Secure Data Exchange Technologies in Mobile and IoT Devices	Serhii Pohasii, Maksym Tkach, Anatolii Salii, Tymur Kurtseitov, Dmytro Pecherytsia, Vitalii Hrunovych	Maksym Tkach
461	Real-Time Identification and Self-Tuning PID Controller for 1-DOF Helicopter System	Enes Erdoğan, Aydoğan Soylu, Şahin Serhat Şeker, Barış Başpınar, Tufan Kumbasar	Enes Erdoğan
462	Decision Making in Managing the Choice of UTMBased Wireless Mapping Systems for Geospatial Data Transmission via LoRa	Andrii Storozhko, Dmytro Svitlychnyi, Borys Samorodov, Ruslan Trofymenko, Oleksandr Lezik, Andrii Volkov	Andrii Storozhko

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463	Augmented Reality-Assisted Surgical Guidance System for Kidney Nephrectomy with Remote Expert Consultation	Ali Efe Karagül, Murat Hatunoğlu, Anıl Yaşartürk, Emre Sümer	Ali Efe Karagül
464	Hybrid Learning Approach for Accurate Resolver Position Estimation Based on Error Metrics	Mert Aygen Ercan, Sibel Zorlu Partal	Mert Aygen Ercan
465	A Review on Underwater Optical Wireless Communication (UOWC) Technology: Current Trends and Future Prospects	Noor Hamdullah, Mesut Cevik	Noor Hamdullah
466	A Multi-authority Security System based on the Cloud and Radio Frequency Identification Systems	Hadeel Abdullah Mohammed	Hadeel Abdullah Mohammed
467	Design and Implementation of a Human-Computer Interaction System Using Hand Tracking and Gesture Recognition with a Built-in Camera	Raddad Al King, M. Hayyan AL Sibai, Youssef Zuhir George	M. Hayyan AL Sibai
468	IOT Environment and Related Technologies For Monitoring with Deep Learning Methods	Mays Qasim Jebur Al-Zaidawi, Mesut Cevik	Mays Qasim Jebur Al-Zaidawi
469	Leveraging Machine Learning to Analyze Socioeconomic Disparities in U.S Cancer Clinical Trials	Krysta Ray, Robin Ghosh	Krysta Ray
471	Advanced Anomaly Detection Framework Using CNN-Grid Autoencoder Integration and Recursive Fuzzy Feature Selection Approach	Reem Talal Al-Dulaimi Al-Dulaimi, Ayça Kurnaz Türkben Türkben, Mohammed Kareem Hussein, Ali Tariq Kalil Al-Khayyat, Osman Nuri Ucan	Mohammed Kareem Hussein
472	ELYRA: Edge-Optimized Lightweight YOLO with ROI Alignment for Real-Time SOP Compliance Monitoring in Crowded Environments	Le Ying Lim, Herrick Han Lin Yeap, Jiehan Teoh, Kian Meng Yap	Le Ying Lim
473	CNN and LSTM-Based In-Memory Malware Detection: Performance Improvement with Transfer Learning	Şeyma Nur Özdemir, Gözde Karataş Baydoğan, Önder Demir	Şeyma Nur Özdemir
474	Align: Empowering High School Students with PMS Awareness and Holistic Support	Niriksha D, Ajit Bhagat, Divyadarshan C.S	Niriksha D
475	Reducing the Risks Associated with Over The Counter Abortion Pills	Arundhati Atul Deshmukh, Ajit Bhagat, Divyadarshan C.S	Arundhati Atul Deshmukh
480	Real-Time Communication for Smart Methane Power Generation in Wastewater Treatment using PLC S7-1200-SCADA	Luay Mahdi, Samir Jasim, Qais Al-Gayem	Luay Mahdi
481	Investigation of Depth Perception Through Gaming	Sıla Sarı, Arda Gök, Gökçe Nur Yılmaz, Kutluk Bilge Arıkan, Ali Berkol, Yücel Çimtay	Gökçe Nur Yılmaz
483	"Is It Future or Is It Past?": From Self-contained Microtasks to AI-driven Collaborative Crowdsourcing	Daniel Schneider, Marcos Antonio De Almeida, Ramon Chaves, Benjamim Fonseca, Hesam Mohseni, Antonio Correia	Daniel Schneider
484	Automatic Language Identification from Speech using Transformer-Based Models	Hasan Kilimci, H.Hakan Kilinc, Zeynep Hilal Kilimci	H.Hakan Kilinc
485	Optimizing Deep Learning Models for Ophthalmic Disease Detection on Resource-Constrained Devices	Zaina Abushaban, Salih Eren Yüzbaşıoğlu, Selma Dilek, Suleyman Tosun	Zaina Abushaban

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486	Cognitive Approach to Cybersecurity: Causality Analysis and Situational Learning	Maksym Tolkachov, Natalia Dzheniuk, Alla Havrylova, Oleksandr Chechui, Andrii Hapon, Vadym Tiutiunyk	Maksym Tolkachov
493	Migraine Analysis with Cross Entropy Based Connectivity Feature: Investigation of Sensory Stimulus Conditions	Firat Orhanbulucu, Fatma Latifoğlu	Firat Orhanbulucu
494	Enhanced Churn Prediction in Telecom with PSO-Based Feature Selection	Merve Güllü, Nurefşan Ak, Reyhan Dede	Merve Güllü
495	Privacy Preserving Federated Random Forest Approach for Human Activity Recognition	Liza Bala, Nayeema Sultana, Md. Rashedul Islam, Nadeem Ahmed	Nadeem Ahmed
496	Lateral Resolution Enhancement of Ultrasound Images via Auto-Encoder Network	Mahsa Mikaeili, Hasan Şakir Bilge	Mahsa Mikaeili
501	Atom Search Optimizer-driven Lead Compensator Design for Unstable Ball and Beam System	Serdar Ekinci, Davut Izci, Mohammad Salman , Raymond Ghandour	Raymond Ghandour
502	SCADA-Based Smart Grid: Integrating PV Systems and PLC Automation Using TIA Portal	Anas Abduladheem Kamil, Laith A. Al-Anzy, Shamam Alwash	Anas Abduladheem Kamil
503	Smart Agents as Customers: A Semi-Autonomous Digital Commerce Model for Industry 5.0	Mehmet Şahin Sümer, Talha Özsoy, Feyza Yıldırım Okay, İbrahim Kök	Mehmet Şahin Sümer
504	Ters Ozmoz Sistemlerinde Akış Kanalı Tasarımı ve Analizi: Ön Çalışma	Rabiya Karalı Türker, Halil Ekici, Cemanur Aydınalp	Rabiya Karalı Türker
505	Automatic Botox Injection Points Detection Based on Deep Learning	Tolgahan Gulsoy, Elif Baykal Kablan, Selen Ayas, Leyla Baykal Sencuk, Deniz Aksu Arica	Tolgahan Gulsoy
506	Comparative Analysis of MPC, RL and P&O for MPPT of PV Systems Under Partial Shading Conditions	Hisham Darwish, Tolgay Kara	Hisham Darwish
507	A Short Survey on Embedded AI with Edge Computing for Maritime Applications	Ali Kılınç, Ezgi Yağmur Çakmak Cebesoy, Volkan Uslan	Ezgi Yağmur Çakmak Cebesoy
509	Electric Vehicle Impacts on Electric Power System: A Literature Survey	İbrahim Arslanoğlu, Mehmet Büyük	İbrahim Arslanoğlu
510	Natural Language and LLMs in Human-Robot Interaction: Performance and Challenges in a Simulated Setting	Kelvin Olaiya, Giovanni Delnevo, Chiara Ceccarini, Chan-Tong Lam, Giovanni Pau, Paola Salomoni	Chiara Ceccarini
511	Deep Learning-based Ensemble Multi-Architecture Model with Hybrid Approach for CIFAR10	Veli Nakçi, Göknur Arıcan, Eren Aktaş, Mustafa Altun	Göknur Arıcan
512	Enhancing Cancer Treatment with AI: Deep Learning for Predicting Neoadjuvant Therapy Response	Bitu Kheibari, Şebnem Bora, Burçin Pehlivanoglu, Anil Aysal Ağlar, Özgül Sağol	Bitu Kheibari
513	Design and Manufacture of a Low-Cost Soft Gripper for Industrial Applications	Murat Akar, Bengusu Mura, Yesim Oniz	Murat Akar
514	EfficientFER: EfficientNetv2 Based Deep Learning Approach for Facial Expression Recognition	Mehmet Emin Konuk, Erdal Kılıç	Mehmet Emin Konuk
515	Simulink-Based Real-Time Control of ABB Industrial 6-DOF Manipulators for Advanced Robotic Applications	Paolo Righettini, Roberto Strada, Filippo Cortinovis,	Filippo Cortinovis

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		Jasmine Santinelli, Federico Tabaldi	
516	vEMB-SLAM: An Efficient Embedded Monocular SLAM Framework for 3D Mapping and Semantic Segmentation	Abdlsamed Dnmez, Bekircan Kseođlu, Mert Araç, Serkan Gnel	Abdlsamed Dnmez
517	Backstepping Control of an Industrial Delta Parallel Robot Model	Selim Sivriođlu, G. Ceyda Haciođlu, A. Suat Yıldız	Selim Sivriođlu
518	Sensitivity to Emotional Exploitation in Reasoning Models: Stereotypical Analysis	Onur Mert Çeldir, Gkhan Dalkılıç	Onur Mert Çeldir
519	Experimental Investigation on a Power Supply Control System for Hydraulic Actuators	Paolo Righettini, Roberto Strada, Filippo Cortinovis, Jasmine Santinelli, Federico Tabaldi	Jasmine Santinelli
520	Obesity Prediction Using Machine Learning Methods: Performance Analysis of DT, RF, and ANN Models	Huseyin Fatih Sen, Yavuz Selim Taspınar	Yavuz Selim Taspınar
522	Maximizing Energy Efficiency in a Solar Tracking System Using IoT-Based Image Processing	İsra Narman, Gkhan Uçkan	İsra Narman
523	Classification of Eastern Black Sea Tea Using E-Nose: A Deep Learning-Based CNN Approach	Yavuz Kablan, Ayten Atasoy	Yavuz Kablan
524	Solar Energy and Supercapacitor Integration: Efficient Energy Storage Solutions	Yusuf Dayar, Fesih Keskin	Yusuf Dayar
525	Estimation of one indicator of functional stability in case of periodic effects on elements of information system	Oleg Barabash, Andriy Makarchuk, Oleg Kapiika, Oleksii Maistrov, Mykola Myroniuk, Yurii Kolomiets	Andriy Makarchuk
526	Interpretable Energy Forecasting: Comparative Analysis of Voting Regression and NODE Models for Electricity Power Consumption Prediction	Burçak Asal	Burçak Asal
527	NLP ve ChatBot Sistemlerinin Performans Analizi ve Etkileri	Gizem Nur Bikir, Mge Ak, Hasan Tolga nal, zgr Umut Vurgun, Arif Furkan Mendi, Mehmet Akif Nacar	Gizem Nur Bikir
528	Impact of Silent Regions on Spoofed Speech Detection: A Deep Learning-Based Analysis	Muhammed Ali Irmak, Fulya Akdeniz, Burcu Kır Savaş	Muhammed Ali Irmak
529	Graph Based Business Process Anomaly Detection with Edge Feature Reconstruction and Advanced Linear Networks	Teoman Berkay Ayaz, Rabia Çevik, Alper zcan, Akhan Akbulut	Teoman Berkay Ayaz
530	Reflective Surface Detection and Its Impact on SLAM Trajectory Accuracy	Ibrahim Aydin, Ertugrul Bayraktar	Ibrahim Aydin
531	Leveraging Large Language Models for Security Patch Detection and CWE Classification	Betul Gokkaya	Betul Gokkaya
540	Empowering Education Through Virtual Reality-driven Course and Examination System	Mehmet Sedat Yildiz, Berkay Mustafaoglu, Wisam Elmasry	Berkay Mustafaoglu
542	Multilingual and Multi-Class Sentiment Classification Using Machine Learning, BERT, and GPT-4o-mini	Tuđba Tosun Pataci, Furkan Gz	Tuđba Tosun Pataci
543	Using of AI Supported Computer Vision on UAV's	Alpaslan Durmuş, Abdulhamit Sevgi, Ahmet Murat Kadiođlu, Erol Duymaz	Alpaslan Durmuş

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544	Dictionary-based data augmentation for Libyan dialect	Hassan Ebrahim, Imen Touati, Lamia Belguith	Hassan Ebrahim
548	AI - Human Cooperation in “Second Brain” Technology, as a Modern Implementation of General Evolution in Human-Machine Interaction	Vladislav. V. Kytainyk, Alexander G. Yushchenko, Daniil. Y. Lyalin	Vladislav. V. Kytainyk
550	The Impact of New Technologies on Digital Transformation with RPA	Büşra Tural Demir, Zeynep Örpek, Zeynep Destan, İlknur Çoşkuner, Muhammed Ahmet Alkan, Fatih Kazova	İlknur Çoşkuner
551	Fuzzing Based Approach for Vulnerability Detection in Smart Contracts	Osman Bashirov, Serdar Solak	Osman Bashirov
552	Nonlinear Aircraft Trim Using A Newton-Raphson Based Whale Optimization Algorithm	Şeyda Aydın, Hakan Yazıcı	Şeyda Aydın
553	Recent Applications of Machine Learning and Deep Learning in the Development of Superconductors	Ahmet Ekrem Mermer, Omid Karimi Sadaghiani, Sahba Tabarraei	Ahmet Ekrem Mermer
554	A Systematic Mapping Study on Machine Unlearning in Federated Learning	Büşra Büyüktanır, Kazım Yıldız, Gözde Karataş Baydoğan	Büşra Büyüktanır
555	A Comparative Analysis of Deep Learning Architectures for Robust Fruit Detection	Rukiye Ertürk Erşahin, Fesih Keskin	Rukiye Ertürk Erşahin
556	Co-simulation of Impedance and Hybrid Motion-Force Control Strategies on a 4-DOF 5R Parallel Manipulator	Paolo Righettini, Roberto Strada, Filippo Cortinavis, Jasmine Santinelli, Federico Tabaldi	Filippo Cortinavis
557	Multi-Dialect Detection for Albanian Language Using Natural Language Processing	Afan Hasan, Edmond Jajaga, Arber Biljali, Lorik Limani	Afan Hasan
558	Detection of Parathyroid Adenoma in Primary Hyperparathyroidism using Deep Learning Models	Muhammad Saad Bin Abdul Ghaffar, Radhwan Ali Abdulghani Saleh, Humam AbuAlkebash, Muhammad Kiziltepe, Burcu Alparslan, H. Metin Ertunç	Muhammad Saad Bin Abdul Ghaffar
560	Analysis of the Formation of Minors Values and the Impact of Ideological and Moral Education Based on Social Media Big Data	Yuxiao Sheng, Wei Lin	Yuxiao Sheng
561	Personalized Learning Path Planning in Educational Information Systems: Research on a New Model for Achieving Quality Education	Lei Wei, Lei Wei, Zhiwei Zhang, Shiqi Yang	Lei Wei
562	Advanced Data Analysis and Feature Extraction Technology in Image Repair	Xinyi Lin	Xinyi Lin
563	Research on Mine Heat Hazard Risk Assessment and Response Strategies Driven by Advanced Data Analysis	Zhao Yongqi	Zhao Yongqi
564	Application of Internet of Things Technology in Sustainable Community Environmental Monitoring and Governance	Xiu Li, Xiu Li, Gong Wen, Zhixuan Yang	Xiu Li
565	Fashion Design Copyright Protection System Combining AI Color Trend Prediction Model and Blockchain Hash Storage Technology	Wang Yujie	Wang Yujie
566	Application of Digital Twin and Augmented Reality Fusion in Remote Maintenance of Complex Equipment	Yisheng Lu, Jingwen Sun	Jingwen Sun

ID	Title	Author(s)	Speaker
567	Intelligent Operation and Maintenance and Prediction Model Optimization for Improving Wind Power Generation Efficiency	Xun Liu, Xiaobin Wu, Jiaqi He, Rajan Das Gupta	Xun Liu
568	Research on the Application of Intelligent Assistance Systems in Personalized Learning Path Planning of Dance Education	Songni Xu	Songni Xu
569	Digital Media Trend Prediction and Future Content Creation Direction Research-Based on Big Data Analysis and Machine Learning	Cong Zhou	Cong Zhou
610	Research on Consumer Privacy Concerns and Willingness to use Intelligent Systems from the Perspective of Informatics	Runda Dai	Runda Dai
611	UUVs Navigation Environment Reconstruction Using Active Vision System	Ihab Elaff	Ihab Elaff
612	Modelling Humanoid Robot Audition for Sound Source Localization Using Artificial Neural Network	Mohammad Ibrhaim Al Karaki, Ihab Elaff	Ihab Elaff
613	Human Face Localization in 3D For Humanoid Robot Vision	Insaf El Guemmam, Ihab Elaff	Ihab Elaff
614	Binary vs. Multiclass Mental Workload Classification from fNIRS Data: A Deep Learning-Based Subject-Specific Analysis	Güzin Özmen	Güzin Özmen
621	Analysis and Imitation Design of Artificial Intelligence Design Concept of Ancient Buildings	Tianyi Zhang	Tianyi Zhang
623	Application of Augmented Reality (AR) in English Language Teaching to Enhance Engagement and Acquiring Language	Jin Nan	Jin Nan
629	Research on multimodal data fusion technology based on LLM and attention mechanism	Boqian You	Boqian You
630	Integration of sustainability and civic morality in new-era educational technology: Methods for developing digital tools for lifelong learning and social responsibility	Fei Song	Fei Song
637	Implementation of Bavesian Theory in Fire Credit Evaluation: Applications, Challenges, and Future Directions	Junjie He, Juntao Yang	Junjie He
640	Exploration of Augmented Reality in gaming design utilizing AR technologies for immerse gameplay	Ronghai Yang, Gaoyu Li	Ronghai Yang
642	Innovative Application of Tangible Interaction Narrative System in Visually Impaired Education from the Perspective of Informatics	Xiyi Peng	Xiyi Peng
645	Research on Application and Optimization of Fintech and Computer Technology in Chinese Commercial Bank Efficiency Analysis	Yihang Zeng	Yihang Zeng
648	Research on The Application of Deep Learning-Based Emotion Recognition Technology in Psychological Counseling	Haodong Xi	Haodong Xi
656	Research on Multi-Beam Detection Data Optimization and Artificial Inteligence System Decision Support Based on MILP	Xingying Xiang	Xingying Xiang
665	Decentralized Marketplace DMarket: Blockchain-Based Platform for Second-Hand Fashion Product Trading and AuthenticationTitle	Wang Yujie	Wang Yujie
666	AI-Assisted Cross-Cultural Communication Barrier Identification and Solution Research	Lijun Tang	Lijun Tang

ID	Title	Author(s)	Speaker
678	Artificial Intelligence-Assisted Emotion Recognition and Adaptive Teaching Strategies in Cross-Cultural Language Teaching	Yang Jiao	Yang Jiao
679	Safety Performance Assessment by Harnessing IoT and AI in Construction Sites: Leveraging Digital Tools for Safer Construction Practices	Junxiang Chen	Junxiang Chen
680	ICT Applications in Business Model Innovation Driven by Information and Knowledge Management	Yijun Fang	Yijun Fang
681	Research on Furniture Design Innovation Based on Artificial Intelligence and Sustainable Systems: Integration of Traditional Culture and Ecological Culture	Hong Chen, Hasnul Azwan Azizan, Jiaqi He	Hong Chen
702	Comparative Analysis of M5 and MOH Core Materials in Dry-Type Transformers Electromagnetic Performance and Cost Evaluation	Tugce Saadet Altunsoy, Merve Demirci, M. Cengiz Taplamacioglu	Tugce Saadet Altunsoy
703	Topic-Aware Multi-Class Classification for Financial Complaints: Comparing BERTopic with Classical Machine Learning Algorithms	Sezer Uğuz, Mert Kumbasar, Gül Tokdemir	Sezer Uğuz
704	A Novel Approach to ADHD Detection Using Handwriting and Image Processing	Ozlem Yildiz Budak, M. Fatih Adak, Enes Sarigedik	Ozlem Yildiz Budak
705	Transformative Methods to Fire Credit Rating: Integrating Data Mining Methods and XGBoost	Junjie He, Juntao Yang	Junjie He
706	Digital Curation of Traditional Culture Based on VR and AI Interactive Technology: Taking Art into Schools as an Example	Linfeng Shen	Linfeng Shen
707	Performance Enhancement of a Stewart Platform Using Joint-Task Space Hybrid Control	Eyyup Sincar, Zeki Y. Bayraktaroglu, Eray A. Baran, Evren Emre	Eyyup Sincar
708	Quantifying Linguistic Variation in Bangla through Dialect-to-Dialect Translation Metrics	Md Riaz Hasan, Fariha Sultana, Harun Or Rashid	Md Riaz Hasan
709	Dam Water Levels Prediction Using Different Time Series Models for Yusufeli and Deriner Dams	Ahmet Enes Yegin, Abdullah Ammar Karcioğlu	Ahmet Enes Yegin

ICHORA2025 Technical Program

May 23, 2025			
Time (GMT+3)	9:00 am - 10:30 am	Session 1 (Virtual) 📍 VRoom 1	Session 2 (Virtual) 📍 VRoom 2
	10:00 am - 12:15 pm	Session 3 (In-Person) 📍 Marmara 1	Session 4 (In-Person) 📍 Marmara 2
	10:45 am - 12:15 pm	Session 5 (Virtual) 📍 VRoom 1	Session 6 (Virtual) 📍 VRoom 2
	12:15 pm - 1:30 pm	Lunch	
	1:30 pm - 3:30 pm	Session 8 (In-Person) 📍 Marmara 1	Session 9 (In-Person) 📍 Marmara 2
		Session 10 (Virtual) 📍 VRoom 1	Session 11 (Virtual) 📍 VRoom 2
	3:30 pm - 4:00 pm	Coffee Break	
	4:00 pm - 6:00 pm	Session 13 (Virtual) 📍 VRoom 1	Session 14 (Virtual) 📍 VRoom 2
	6:00 pm - 6:30 pm	Coffee Break	
	6:30 pm - 8:30 pm	Session 16 (Virtual) 📍 VRoom 1	Session 17 (Virtual) 📍 VRoom 2

May 24, 2025			
Time (GMT+3)	9:00 am - 11:00 am	Session 18 (In-Person) 📍 Marmara 1	Session 19 (In-Person) 📍 Marmara 2
		Session 20 (Virtual) 📍 VRoom 1	Session 21 (Virtual) 📍 VRoom 2
	11:00 am - 12:30 pm	(VIRTUAL) Invited Speaker "Medical Robotics: An Overview" Assoc. Prof. Dr. Cabbar Veysel Baysal 📍 VRoom 1	(IN-PERSON) Panel Session "Avionics & Artificial Intelligence" 📍 Marmara 1
	12:30 pm - 1:30 pm	Lunch	
	1:30 pm - 3:30 pm	Session 23 (In-Person) 📍 Marmara 1	Session 24 (In-Person) 📍 Marmara 2
		Session 25 (Virtual) 📍 VRoom 1	Session 26 (Virtual) 📍 VRoom 2
	3:30 pm - 4:00 pm	Coffee Break	
	4:00 pm - 6:00 pm	Session 28 (In-Person) 📍 Marmara 1	Session 29 (In-Person) 📍 Marmara 2
		Session 30 (Virtual) 📍 VRoom 1	Session 31 (Virtual) 📍 VRoom 2
	6:00 pm - 6:30 pm	Coffee Break	
	6:30 pm - 8:30 pm	Session 33 (Virtual) 📍 VRoom 1	Session 34 (Virtual) 📍 VRoom 2

Session 1. (VRoom 1) (Virtual)	
Chair: Ebubekir Yasar	
Date: May 23, 2025	
Time (GMT+3): 09:00 am - 10:30 am	
Paper	Author (s)
467 - Design and Implementation of a Human-Computer Interaction System Using Hand Tracking and Gesture Recognition with a Built-in Camera	Raddad Al King, M. Hayyan AL Sibai , Youssef Zuhir George
519 - Experimental Investigation on a Power Supply Control System for Hydraulic Actuators	Paolo Righettini, Roberto Strada, Filippo Cortinavis, Jasmine Santinelli , Federico Tabaldi
434 - Methodological Foundations for Constructing Intelligent Information Security Systems	Serhii Yevseiev, Stanislav Milevskyi , Vladyslav Sokol, Yevhen Melenti, Olena Akhiezer, Kyrlo Petrenko
346 - Speech Recognition of High Impact Model Using Deep Learning Technique: A Review	Hasan H. Hussein , Oguz Karan, Sefer Kurnaz, Ayca Kurnaz Turkben
523 - Classification of Eastern Black Sea Tea Using E-Nose: A Deep Learning-Based CNN Approach	Yavuz Kablan , Ayten Atasoy
215 - Machine Learning-Based Orange Quality Classification: A Hyperparameter Optimization Approach Through Puma Optimizer	Harun Akbulut, Sema Atasever , Eyüp Siramkaya

Session 2. (VRoom 2) (Virtual)	
Chair: Oğuzhan Pektezel	
Date: May 23, 2025	
Time (GMT+3): 09:00 am - 10:30 am	
Paper	Author (s)
556 - Co-simulation of Impedance and Hybrid Motion-Force Control Strategies on a 4-DOF 5R Parallel Manipulator	Paolo Righettini, Roberto Strada, Filippo Cortinavis , Jasmine Santinelli, Federico Tabaldi
300 - Critical Analysis of Informal Learning and Affective Design Components in AR for Developing a Conceptual AR Model in Tourism	Siti Salbiah Hamzah , Hasiah Mohamed, Nurulnawwan Aziz
419 - Parçacık Sürüşü Optimizasyon Algoritması Kullanılarak IEEE 33-Bus Sisteminde Elektrikli Araç Şarj İstasyonlarının Optimum Yerleşimi	Achmet Molla , İbrahim Gürsu Tekdemir
459 - Multi-Parameter Analysis of Biosignals in Long- Term Control Medical Devices Management	Serhii Holdobin , Natalia Brynza, Olha Tiutiunyk, Olena Serhienko, Ihor Sosnov, Pavlo Samus
515 - Simulink-Based Real-Time Control of ABB Industrial 6-DOF Manipulators for Advanced Robotic Applications	Paolo Righettini, Roberto Strada, Filippo Cortinavis , Jasmine Santinelli, Federico Tabaldi
557 - Multi-Dialect Detection for Albanian Language Using Natural Language Processing	Afan Hasan , Edmond Jajaga, Arber Biljali, Lorik Limani
483 - "Is It Future or Is It Past?": From Self-contained Microtasks to AI-driven Collaborative Crowdsourcing	Daniel Schneider , Marcos Antonio De Almeida, Ramon Chaves, Benjamim Fonseca, Hesam Mohseni, Antonio Correia

Session 3. (Marmara 1 Hall) (In-Person)	
Chair: Emre Benzer	
Date: May 23, 2025	
Time (GMT+3): 10:00 am - 12:15 pm	
Paper	Author (s)
543 - Using of AI Supported Computer Vision on UAV's	Alpaslan Durmuş , Abdulhamit Sevgi, Ahmet Murat Kadioğlu, Erol Duymaz
422 - Evolution of Visual Shopping in E-Commerce: Integrating Object Detection and Image Similarity	Enis Teper , Alp Arda Yalman, Mustafa Keskin, Sinan Keçeci, Emre Rençberoğlu
72 - Products Purchased by Those Who Viewed This Item	Enis Teper , Mustafa Keskin, Okan Kaya, Semih Albayrak
494 - Enhanced Churn Prediction in Telecom with PSO-Based Feature Selection	Merve Güllü , Nureşan Ak, Reyhan Dede
18 - A Securing Transmitted Data in Internet of Autonomous Vehicles	Abdulrahman Alamer , Sultan Basudan, Yunus AlQasim
92 - Design of Electronic Chess Board Using Analogue Hall-effect Sensors for Piece Identification	Justin Julius Chin Cheong , Praneel Bhatia, Matthias Krauledat, Ronny Hartanto
95 - Development of a Virtual Reality Traffic Simulation to Analyze Road User Behavior	Ahmad Mohammadi , Peter Park, Mehdi Nourinejad, Muhammed Shijas Babu Cherakkatil
263 - A Novel Framework to Reduce Response Times for Fire Stations	Masoud Amirdadi , Ahmad Mohammadi, Peter Park, Mehdi Nourinejad, Adriano Solis, Deryn Rizzi, Tracey Martino
98 - Forming Connected Multi-Robot Teams Utilizing Aerial Robots	Deniz Ozsoyeller

Session 4. (Marmara 2 Hall) (In-Person) Chair: Hilmi Demirhan		Date: May 23, 2025
		Time (GMT+3): 10:00 am - 12:15 pm
Paper	Author (s)	
162 - A Comprehensive Investigation into Strip Steel Defect Detection using Traditional Machine Learning and Deep Learning Models	Betül Erkantarıcı , Rifat Kurban, Gokhan Bakal, Abdulkadir Köse	
213 - Generating Synthetic EEG Data for Psychiatric Disorders with Variational Autoencoders	Burcu Çınar	
518 - Sensitivity to Emotional Exploitation in Reasoning Models: Stereotypical Analysis	Onur Mert Çeldir , Gökhan Dalkılıç	
427 - Reducing Inventory Counting Errors with Machine Learning: A Data-Driven Approach for E-Commerce	Mert Güneş , Mehmet Ali Ekmiş, Emre Rençberoğlu, Mustafa Buğra Yılmaz, Ali Varal	
1 - Comparative Analysis of Normal and ASD EEG Data Using Hjorth Parameters	Muliyadi Muliyadi , Melinda Melinda, Yuwaldi Away, Syahrul Gazali	
495 - Privacy Preserving Federated Random Forest Approach for Human Activity Recognition	Liza Bala, Nayeema Sultana, Md. Rashedul Islam, Nadeem Ahmed	
264 - Advancing Medical Video Question Answering Through Large Language Models, Temporal Localization and Causal Reasoning	Hilmi Demirhan , Seetha Gopalakrishnan, Wlodek Zadrozny, Wenwen Dou	

Session 5. (VRoom 1) (Virtual) Chair: Ebubekir Yasar		Date: May 23, 2025
		Time (GMT+3): 10:45 am - 12:15 pm
Paper	Author (s)	
310 - Design of an Open Source Piezoelectric Devices for Road Systems of Republic of Türkiye	Alper Doruk Yıldız , Kuzey Ege Hassoy, Atajan Rovshenov, Ali Tunçak	
340 - The Impact of Price-Based Demand Response on DSO-TSO Coordination System	Busra Uzun , Serkan Bahçeci, Yeliz Yoldaş, Ahmet Önen	
527 - NLP ve ChatBot Sistemlerinin Performans Analizi ve Etkileri	Gizem Nur Bikir , Müge Ak, Hasan Tolga Ünal, Özgür Umut Vurgun, Arif Furkan Mendi, Mehmet Akif Nacar	
220 - Coğrafi Bilgi Sisteminde Kullanılan Harita Altlıklarındaki Görüntülerin Telif Hakkının Korunması için Yarı-kör Sağlam ve Kalite Garantili Damgalama Yöntemi	Ertuğrul Gül	
554 - A Systematic Mapping Study on Machine Unlearning in Federated Learning	Büşra Büyüktanır , Kazım Yıldız, Gözde Karataş Baydoğmuş	
666 - AI-Assisted Cross-Cultural Communication Barrier Identification and Solution Research	Lijun Tang	
561 - Personalized Learning Path Planning in Educational Information Systems: Research on a New Model for Achieving Quality Education	Lei Wei , Lei Wei, Zhiwei Zhang, Shiqi Yang	
127 - Detection of Brain Tumors with AI Techniques	Can Yeşilaras , Sarp Yıldız, Atajan Rovshenov, Ali İhsan Sarı	

Session 6. (VRoom 2) (Virtual) Chair: Oğuzhan Pektezel		Date: May 23, 2025
		Time (GMT+3): 10:45 am - 12:15 pm
Paper	Author (s)	
486 - Cognitive Approach to Cybersecurity: Causality Analysis and Situational Learning	Maksym Tolkachov , Nataliia Dzheniuk, Alla Havrylova, Oleksandr Chechui, Andrii Hapon, Vadym Tiutiunyk	
356 - Artificial intelligence in sustainable supplier search: A comprehensive bibliometric analysis using Scopus database	Katerina Fotova Čiković	
406 - Review of underwater drones vibration propulsion	Ilian Iliev, Desislava Mihaylova	
333 - LWCNN-Based Deep Learning Model for COVID-19 Detection: Performance Analysis on Voice Data	Ipek Atik	
493 - Migraine Analysis with Cross Entropy Based Connectivity Feature: Investigation of Sensory Stimulus Conditions	Fırat Orhanbulucu , Fatma Latifoğlu	
569 - Digital Media Trend Prediction and Future Content Creation Direction Research-Based on Big Data Analysis and Machine Learning	Cong Zhou	
706 - Digital Curation of Traditional Culture Based on VR and AI Interactive Technology: Taking Art into Schools as an Example	Linfeng Shen	
335 - Hidroelektrik, Rüzgar ve Güneş Enerji Sistemlerinde Yapay Zeka ile Sürdürülebilirlik Analizleri	Serdar Mammadov , Mislina Çakallıoğlu, Yusuf Yeşilyurt, Pelin Canbay	

Session 7. (VRoom 3) (Virtual) Chair: Ipek Atik	
Date: May 23, 2025 Time (GMT+3): 10:45 am - 12:15 pm	
Paper	Author (s)
705 - Transformative Methods to Fire Credit Rating: Integrating Data Mining Methods and XGBoost	Junjie He , Juntao Yang
679 - Safety Performance Assessment by Harnessing IoT and AI in Construction Sites: Leveraging Digital Tools for Safer Construction Practices	Junxiang Chen
680 - ICT Applications in Business Model Innovation Driven by Information and Knowledge Management	Yijun Fang
629 - Research on multimodal data fusion technology based on LLM and attention mechanism	Boqian You
630 - Integration of sustainability and civic morality in new-era educational technology: Methods for developing digital tools for lifelong learning and social responsibility	Fei Song

Session 8. (Marmara 1 Hall) (In-Person) Chair: Hüseyin Ünözkan	
Date: May 23, 2025 Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
421 - Enhancing Fine-Grained Image Retrieval with Advanced Embedding and Loss Functions	Mustafa Keskin , Alp Arda Yalman, Enis Teper, Sinan Keçeci, Emre Rençberoğlu
420 - Optimizing Approximate Nearest Neighbor Search for Fashion Image Retrieval	Mustafa Keskin , Alp Arda Yalman, Enis Teper, Emre Rençberoğlu, Sinan Keçeci
439 - Analysing the Friction Effect on Velocity Control of a DC Motor for Gimbal Applications	Ferhat Altunay , Şeniz Ertuğrul, Osman Nuri Şahin
27 - A Unique Web 3 Product-NFT Usage in Healthcare	Hüseyin Ünözkan
138 - Identification and Interpretation of Focal Center of Brain Activity from EEG Signal Recordings	Onur Koçak , Ziya Telatar, Cansel Ficici
513 - Design and Manufacture of a Low-Cost Soft Gripper for Industrial Applications	Murat Akar , Bengusu Mura, Yesim Oniz
496 - Lateral Resolution Enhancement of Ultrasound Images via Auto-Encoder Network	Mahsa Mikaeili , Hasan Şakir Bilge

Session 9. (Marmara 2 Hall) (In-Person) Chair: İsmail Çalıküşu	
Date: May 23, 2025 Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
94 - Efficiency of Adding a New Template to Network Management System and Zabbix Application	Mehmet Kara , Gökhan Tuğrul
707 - Performance Enhancement of a Stewart Platform Using Joint-Task Space Hybrid Control	Eyyup Sincar , Zeki Y. Bayraktaroglu, Eray A. Baran, Evren Emre
125 - Optimized Design of an Automated Drying System for Cataphoresis Exit Applications	Pinar Demircioglu, İsmail Bogrekci, Emre Benzer, Gorkem Aydın , Halil Ekici
222 - Machine Learning-Based Battery State of Health Prediction Using Discharge Voltage	Gökhan Manav , Muhammed Mutlu Yapıcı, Ali Saygın
405 - Contact Forces in the Gait Cycle: The Role of Different Materials	İsmail Çalıküşu , Uğur Fidan
341 - Ensuring product detection and product counting on the assembly line using deep learning (YOLOv11)	Muhammed Abdullah Özel , Mehmet Yasin Gül

Session 10. (VRoom 1) (Virtual)	
Chair: Ebubekir Yasar	
Date: May 23, 2025	
Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
514 - EfficientFER: EfficientNetv2 Based Deep Learning Approach for Facial Expression Recognition	Mehmet Emin Konuk , Erdal Kılıç
71 - Travel time estimation of New York City taxis: An ensemble machine learning model	Resul Özdemir , Murat Taşyürek, Veysel Aslantaş
166 - Optimized Soft Voting Ensemble Model for Predicting Net Blotch Disease in Spring Barley with Meteorological Data in Turkey	Recep Sinan Arslan , Nilüfer Akci, Dilara Çelik, Bahatdin Daşbaşı, Kadir Aytaç Özaydın, Teslima Daşbaşı
425 - AI-Native Use Cases in 6G	Sedat Çimen , Sümeye Nur Karahan, İsmail Duru, İbrahim Yazıcı
350 - A Three-Level A Stackelberg Game with Virtual Power Plant Clusters Multi-Agent Trading Strategy	Nurcan Yazar , Serkan Bahçeci, Yeliz Yoldaş, Ahmet Önen
169 - Comparative Study of EKF and SPKF for SOC Estimation of Lithium-ion Batteries	Ahmet Melih Gurbuz , Guven Komurgoz Kiris
33 - Elliptical Antenna Array Synthesis using Puma Optimization Algorithm	Ali Durmuş, Fırat Özbay
265 - Speech Emotion Recognition Using Hybrid Deep Learning Models and Diverse Acoustic Features	Oluwafemi Ebenezer , Eliane Nsenga, Melike Sah
268 - Implementing a Method for Privilege Escalation Attacks in Windows Systems	Esra Calik Bayazit, Merve Arac

Session 11. (VRoom 2) (Virtual)	
Chair: Oğuzhan Pektezel	
Date: May 23, 2025	
Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
462 - Decision Making in Managing the Choice of UTMBased Wireless Mapping Systems for Geospatial Data Transmission via LoRa	Andrii Storozhko , Dmytro Svitlychnyi, Borys Samorodov, Ruslan Trofymenko, Oleksandr Lezik, Andrii Volkov
525 - Estimation of one indicator of functional stability in case of periodic effects on elements of information system	Oleg Barabash, Andriy Makarchuk , Oleg Kapiika, Oleksii Maistrov, Mykola Myroniuk, Yurii Kolomiets
196 - Prioritization of indicators in the scheduling of examinations for full-time students in higher education	Fatme Rashidova , Aldeniz Rashidov
59 - Brain Tumor Classification using Deep Learning: Robustness Against Adversarial Attacks and Defense Strategies	Hafsa Khalid , Cem Direkoglu
474 - Align: Empowering High School Students with PMS Awareness and Holistic Support	Niriksha D , Ajit Bhagat, Divyadarshan C.S
54 - MEGUX: A UX Model for Mobile Educational Game Evaluation	Sharifah Nurulhikmah Syed Yasin , Roslina Ibrahim
99 - Investigating EEG Band Dynamics in Motor Imagery Tasks: A Topographic Brain Mapping Study of a BCI-Trained Individual	Esra Kaya , İsmail Sarıtaş
357 - Feature Extraction with Scalogram-Based CNN Activations and Activity Recognition in Elderly Individuals with Transfer Learning	Esra Kaya
77 - Color-Spatial AutoAugment: Automated Image Augmentation and Policy Optimization	Hussien Al-Khafaji , Timur İnan

Session 12. (VRoom 3) (Virtual)	
Chair: Ipek Atik	
Date: May 23, 2025	
Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
566 - Application of Digital Twin and Augmented Reality Fusion in Remote Maintenance of Complex Equipment	Yisheng Lu, Jingwen Sun
637 - Implementation of Bavesian Theory in Fire Credit Evaluation: Applications, Challenges, and Future Directions	Junjie He , Juntao Yang
562 - Advanced Data Analysis and Feature Extraction Technology in Image Repair	Xinyi Lin
665 - Decentralized Marketplace DMarket: Blockchain-Based Platform for Second-Hand Fashion Product Trading and AuthenticationTitle	Wang Yujie
567 - Intelligent Operation and Maintenance and Prediction Model Optimization for Improving Wind Power Generation Efficiency	Xun Liu , Xiaobin Wu, Jiaqi He, Rajan Das Gupta
648 - Research on The Application of Deep Learning-Based Emotion Recognition Technology in Psychological Counseling	Haodong Xi
681 - Research on Furniture Design Innovation Based on Artificial Intelligence and Sustainable Systems: Integration of Traditional Culture and Ecological Culture	Hong Chen , Hasnul Azwan Azizan, Jiaqi He
656 - Research on Multi-Beam Detection Data Optimization and Artificial Intelligence System Decision Support Based on MILP	Xingying Xiang
623 - Application of Augmented Reality (AR) in English Language Teaching to Enhance Engagement and Acquiring Language	Jin Nan

Session 13. (VRoom 1) (Virtual)	
Chair: Ebubekir Yasar	
Date: May 23, 2025	
Time (GMT+3): 4:00 pm - 6:00 pm	
Paper	Author (s)
228 - A Universal Method of Digital Content Integrity Expertise	Ivan Bobok, Alla Kobozeva, Oleksandr Laptiev, Viktor Speranskyy
441 - Crypto Code Constructions in Post-Quantum Cryptography	Andrii Tkachov, Olha Korol, Natalia Voropay, Sergii Dunaiev , Vadym Stetsenko, Bogdan Tomashevsky
285 - Implementation of 3D U-NET for Lung Cancer Classification	Serbay Serpen , Atajan Rovshenov
433 - Autism's Disease Prediction Using Deep Learning	Rihab Qasim , Yaqeen Ali, Sura Searan, Nadia Fahad
123 - Design of Assistive Wearable Smart Belt for Patients with Parkinson s Disease	İdil Yemez , Melek Seza Körlü, Atajan Rovshenov
550 - The Impact of New Technologies on Digital Transformation with RPA	Büşra Tural Demir, Zeynep Örpek, Zeynep Destan, İlknur Çoşkuner , Muhammed Ahmet Alkan, Fatih Kazova
528 - Impact of Silent Regions on Spoofed Speech Detection: A Deep Learning-Based Analysis	Muhammed Ali Irmak , Fulya Akdeniz, Burcu Kır Savaş
614 - Binary vs. Multiclass Mental Workload Classification from fNIRS Data: A Deep Learning-Based Subject-Specific Analysis	Güzin Özmen

Session 14. (VRoom 2) (Virtual)	
Chair: Oğuzhan Pektezel	Date: May 23, 2025
	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
198 - Enhancing Airline Passenger Demand Forecasting in Australia: Machine Learning Models with Bayesian Optimization	Mehmet Özçalıcı, Hasan Emin Gürler
424 - Approximate Solutions of Hyperbolic Telegraph Equations Arising in Circuit Theory	Aleyna Akaydin , Ahmed Amara, Mehmet Emir Köksal
163 - Design of Cloud Computing System for Optimized Power Electricity Consumption in Office Buildings	Ali Aleqaby , Laith A. Al-Anzy
365 - Iris Veri Setinde Özellik Seçimi ve Sınıflandırma için Hibrit IPA-ANN Modeli	Samad Hasanlı , Doğan Yıldız, Sercan Demirci
233 - Depth Estimation Based Automatic Pose Correction in Hand Images	Betül Koşmaz Sünnetci , Özkan Bingöl, Eyüp Gedikli, Murat Ekinci
159 - An Exploration of BERT and Its Diverse Applications	Bewar Neamat Taha , Muhammet Baykara, Ferhat Ucar
423 - Development of an Advanced Blockchains' Classification	Illia Bukatych , Iryna Aksonova, Tetiana Milevska, Anton Smirnov, Dmytro Balagura, Mykhailo Zhyhalov
338 - Smart Contracts: Classification Problems	Vladyslav Khvostenko , Stanislav Milevskyi, Illia Bukatych, Dmytro Yevseiev, Oleksandr Iegrashyn, Vadym Kyryk
34 - Leader Selection for Intracompany Projects Using Multi-Criteria Decision Making Techniques	Nisanur Köleoğlu , Yunus Eroglu

Session 15. (VRoom 3) (Virtual)	
Chair: Turgut Ozseven	Date: May 23, 2025
	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
640 - Exploration of Augmented Reality in gaming design utilizing AR technologies for immerse gameplay	Ronghai Yang , Gaoyu Li
610 - Research on Consumer Privacy Concerns and Willingness to use Intelligent Systems from the Perspective of Informatics	Runda Dai
678 - Artificial Intelligence-Assisted Emotion Recognition and Adaptive Teaching Strategies in Cross-Cultural Language Teaching	Yang Jiao
645 - Research on Application and Optimization of Fintech and Computer Technology in Chinese Commercial Bank Efficiency Analysis	Yihang Zeng
568 - Research on the Application of Intelligent Assistance Systems in Personalized Learning Path Planning of Dance Education	Songni Xu
621 - Analysis and Imitation Design of Artificial Intelligence Design Concept of Ancient Buildings	Tianyi Zhang
564 - Application of Internet of Things Technology in Sustainable Community Environmental Monitoring and Governance	Xiu Li , Xiu Li, Gong Wen, Zhixuan Yang
560 - Analysis of the Formation of Minors Values and the Impact of Ideological and Moral Education Based on Social Media Big Data	Yuxiao Sheng , Wei Lin
563 - Research on Mine Heat Hazard Risk Assessment and Response Strategies Driven by Advanced Data Analysis	Zhao Yongqi

Session 16. (VRoom 1) (Virtual)	
Chair: Ebubekir Yasar	
Date: May 23, 2025	
Time (GMT+3): 6:30 pm - 8:30 pm	
Paper	Author (s)
120 - Real-Time Object Detection: A Comparative Analysis of YOLO, SSD, and EfficientDet Algorithms	Elif Nur Yılmaz , Tuğba Selcen Navruz
43 - Predicting Compulsory Earthquake Insurance Tendencies In Turkey Using Machine Learning Algorithms	Elif Serra Bayram , Ezgi Aktar Demirtas
203 - Improved Conjugate Gradient Algorithm For Removing Noise From Images	Hisham M. Khudhur , Ruaa Z. Mahmood
212 - Machine Learning for Drug Discovery and Development	Ans Ibrahim Mahameed , Fatima Ayad Abd Al_Zahraa, Ahmed Bahaaulddin A. Alwahhab, Ahmed A. Radhi, Bourair Al-Attar, Anna Dronach, Nadheer Mahmoud Ameen
262 - A New Class of Dai-Liao Method for Solving Iteration Problems	Basim A. Hassan , Marwa Muthana Mohammed
410 - Soldering Quality Control With Semi-Supervised Deep Learning Model	Emre Köymen , Bahadır Gölcük, Emrah Üstün
642 - Innovative Application of Tangible Interaction Narrative System in Visually Impaired Education from the Perspective of Informatics	XiYi Peng
221 - Evaluation of Anomaly Detection and Adversarial Attacks in the IEEE 9-Bus System	Emre Can Bingöl , Mustafa Şinasi Ayas, İsmail Hakkı Altaş
465 - A Review on Underwater Optical Wireless Communication (UOWC) Technology: Current Trends and Future Prospects	Noor Hamdullah , Mesut Cevik

Session 17. (VRoom 2) (Virtual)	
Chair: Oğuzhan Pektezel	
Date: May 23, 2025	
Time (GMT+3): 6:30 pm - 8:30 pm	
Paper	Author (s)
60 - Recognition of Hand Gestures Using a Smart Glove with Inductive Sensors	Shokoufeh Davarzani , Maryam Ravan, Reza K. Amineh
133 - A Comparative Analysis Between a Custom Optimization Experiment with Confidence Intervals in AnyLogic and OptQuest	Soheila Antar , Felipe Haro
455 - A Comprehensive RAG-Based LLM for AI-Driven Mental Health Chatbot	Anish Ilapaka , Robin Ghosh
28 - Application of Generative Artificial Intelligence from Neural Networks in Data Centers	Antonio Cortes
565 - Fashion Design Copyright Protection System Combining AI Color Trend Prediction Model and Blockchain Hash Storage Technology	Wang Yujie
708 - Quantifying Linguistic Variation in Bangla through Dialect-to-Dialect Translation Metrics	Md Riaz Hasan , Fariha Sultana, Harun Or Rashid
454 - Deep Learning-Based Multi-Classification of Breast Cancer Ultrasound Images Using Convolutional Neural Networks	Andres Dewendt Urdaneta , Robin Ghosh
531 - Leveraging Large Language Models for Security Patch Detection and CWE Classification	Betul Gokkaya
510 - Natural Language and LLMs in Human-Robot Interaction: Performance and Challenges in a Simulated Setting	Kelvin Olaiya, Giovanni Delnevo, Chiara Ceccarini , Chan-Tong Lam, Giovanni Pau, Paola Salomoni
161 - Implementation Analysis of Collaborative Robot Digital Twins in Physics Engines	Christian König , Jan Petershans, Jan Herbst, Matthias Rüb, Dennis Krummacker, Eric Mittag, Hans D. Schotten

Session 18. (Marmara 1 Hall) (In-Person)	
Chair: Inayet Hakki Cizmeci	
Date: May 24, 2025	
Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
432 - Hybrid Deep Learning for Acute Lymphoblastic Leukemia Diagnosis	Ali Han Özdoğan , Koray Kahraman, Mehmet Chotzoglou Chalil, Selcan Kaplan Berkaya
234 - Screen-cam Resistant Watermarking for Turkish Document Images	Efe Yılmaz Taşyürek , Abdullah Himmet Özcan, Sevinç İlhan Omurca, Erol Gerçeker, Hüseyin Kara
329 - Yağlı ve Kuru Tip Transformatörlerde TEDAŞ MLZ Şartnamesine Göre Enerji Kayıplarının Değerlendirilmesi	Kamran Dawood, Furkan Gezer , Güven Kömürgöz, Semih Tursun
704 - A Novel Approach to ADHD Detection Using Handwriting and Image Processing	Ozlem Yildiz Budak , M. Fatih Adak, Enes Sarigedik
308 - Transformatörlerdeki Elektromanyetik Kuvvetlerin Değerlendirilmesi: Açık Devre ve Kısa Devre Koşulları	Kamran Dawood , Güven Kömürgöz
330 - Güç Transformatörü Türlerinin Finansal ve Fiziksel Özelliklerine İlişkin Karşılaştırması	Kamran Dawood , Furkan Gezer, Güven Kömürgöz, Semih Tursun
364 - K-Faktörünün Transformatör Maliyeti ve Ağırlığı Üzerindeki Etkileri: Karşılaştırmalı Bir Değerlendirme	Kamran Dawood, Muhammed Alperen Çakır , Güven Kömürgöz, Semih Tursun
504 - Ters Ozmoz Sistemlerinde Akış Kanalı Tasarımı ve Analizi: Ön Çalışma	Rabiya Karalı Türker , Halil Ekici, Cemanur Aydınlap
282 - Stacking Ensemble Based Hybrid Machine Learning Approach for Predicting Obesity Levels	Inayet Hakki Cizmeci , Hayri Incekara

Session 19. (Marmara 2 Hall) (In-Person)	
Chair: Gökçe Nur Yılmaz	
Date: May 24, 2025	
Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
301 - A Review of Control Methods in Lower Limb Exoskeleton Robots: From Classical to Machine Learning Approaches	Ali Foroutannia , Masoud Mohammadian, Kumudu Munasinghe
267 - Shadow Users: Cyber-Physical Threats from a Human Computer Interaction Perspective	Andrew George Peck , Iain Phillips, Tim Watson
306 - Comparative Analysis of LSTM and XGBoost for Cryptocurrency Trend Prediction	Drissia Ennagoura , Kamal El Kehal, Khalid El Fahssi, Mohamed El Far, Safae Merzouk, Badre Bossoufi, Mohamed Taj Bennani
157 - Reducing Chattering by Hybrid Control of a DFIG-based Wind Power System	Farah Echiheb , Badre Bossoufi, Safae Merzouk
158 - Performance Optimization of Photovoltaic Water Pumping Systems: A Comparative Study of PSO-Based and ANN-Based MPPT with Real-Time Validation	Ikram Saady , Btissam Majout, Badre Bossoufi, Mohammed Karim, Safae Merzouk
199 - "AI doesn't have a soul." Exploring Gen Z's Perceptions of Social Chatbots	Mohammad Amin Kuhail , Jihene Mrabet, Rafiq Hijazi, Justin Thomas
272 - Integrating Physical Effects into Action-Conditioned Frame Prediction for Robotic Manipulation	Nicolas Rodriguez Peña , Maximilian Hoh, Samed Doğan, Nico Leuze, Alfred Schoettl
481 - Investigation of Depth Perception Through Gaming	Sıla Sarı, Arda Gök, Gökçe Nur Yılmaz , Kutluk Bilge Arıkan, Ali Berkol, Yücel Çimtay

Session 20. (VRoom 1) (Virtual) Chair: Ebubekir Yasar	
Date: May 24, 2025 Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
540 - Empowering Education Through Virtual Reality-driven Course and Examination System	Mehmet Sedat Yildiz, Berkay Mustafaoglu , Wisam Elmasry
342 - A Hybrid CGAN-FNN Framework for Robust Hand Gesture Recognition in Real-Time Systems	Bilge Toprak , Onur Köroğlu, Osman Bayram, Emre Gür, Mehmet Iscan
195 - Enhancing Industrial IoT Cybersecurity with Explainable AI: A SHAP and LIME-Based Intrusion Detection Methodology	Burçak Asal , Alperen Çakın, Selma Dilek
526 - Interpretable Energy Forecasting: Comparative Analysis of Voting Regression and NODE Models for Electricity Power Consumption Prediction	Burçak Asal
438 - A Human-AI Collaborative Approach for Credit Card Fraud Detection: Integration of LSTM Networks with Interactive Web Interface	Burhanettin Burun , Mehmet Göktürk
304 - Hand vein recognition using Mask R-CNN	Mehmet Kiyak , Burcu Kır Savaş, Fulya Akdeniz
542 - Multilingual and Multi-Class Sentiment Classification Using Machine Learning, BERT, and GPT-4o-mini	Tuğba Tosun Pataci , Furkan Göz
458 - NSGA-II Based Optimization of LLC Resonant Converter for 270V to 28V DC-DC Conversion in More Electric Aircraft	Taha Yasin Kıymaz , Murat Taşkıran, Atiye Hülya Obdan, Kamuran Nur Bekiroğlu
46 - Strawberry Ripeness Detection: Optimizing Harvesting Efficiency with YOLOv11	Tahsin Soyak , Nur Bilge Özcan, Gökalp Çınar

Session 21. (VRoom 2) (Virtual) Chair: Oğuzhan Pektezel	
Date: May 24, 2025 Time (GMT+3): 09:00 am - 11:00 am	
Paper	Author (s)
548 - AI - Human Cooperation in "Second Brain" Technology, as a Modern Implementation of General Evolution in Human-Machine Interaction	Vladislav. V. Kytainyk , Alexander G. Yushchenko, Daniil. Y. Lyalin
355 - Support Vector Machines (SVM) in Traffic Prediction for Intelligent Transportation Systems- A comprehension Review	Omar Saghrje , Oguz Karan, Sefer Kurnaz, Ayca Kurnaz Turkben
472 - ELYRA: Edge-Optimized Lightweight YOLO with ROI Alignment for Real-Time SOP Compliance Monitoring in Crowded Environments	Le Ying Lim , Herrick Han Lin Yeap, Jiehan Teoh, Kian Meng Yap
475 - Reducing the Risks Associated with Over The Counter Abortion Pills	Arundhati Atul Deshmukh , Ajit Bhagat, Divyadarshan C.S
551 - Fuzzing Based Approach for Vulnerability Detection in Smart Contracts	Osman Bashirov , Serdar Solak
74 - A Deep Learning Based Fusion Model For Plant Leaf Disease Classification	Muhammad Hamza Ishaq , Cem Direkoglu
100 - Early Detection of Diabetic Foot Ulcers through CoAtNet Model: A Scalable Solution for Healthcare Integration	Muhammad Abdullah Khan, Muhammad Zaman , Tanzila Kehkashan, Nikola Ivković, Vedran Uroš, Adnan Akhunzada
331 - Error-Corrected Quantum CNN for Gender-Based Micro-Expression Analysis in Affective Computing	Hafiz Khizer Bin Talib, Kaiwei Xu, Yanlong Cao, Muhammad Zaman , Adnan Akhunzada

Session 22. (VRoom 3) (Virtual)	
Chair: Ipek Atik	Date: May 24, 2025
	Time (GMT+3): 09:00 am - 11:00 am
Paper	Author (s)
225 - Towards 6G Semantic Communication: Technologies, Applications, and Research Challenges	Sümeyle Nur Karahan , Osman Kaya
552 - Nonlinear Aircraft Trim Using A Newton-Raphson Based Whale Optimization Algorithm	Şeyda Aydın , Hakan Yazıcı
517 - Backstepping Control of an Industrial Delta Parallel Robot Model	Selim Sivrioğlu , G. Ceyda Hacıoğlu, A. Suat Yıldız
457 - Experimental Investigation of Artificial Intelligence Models for Recommender Systems	Onur Özbey , Fatih Kılıç
402 - Websites Quality and Online Success: A Bibliometric Analysis	Muhammet Sait Ağ , Kutay Koruyan, Cigdem Tarhan
97 - Introducing Interval Neural Networks for Uncertainty-Aware System Identification	Mehmet Ali Ferah , Tufan Kumbasar
137 - Nonlinear Spring-Damping Modeling for Cable- Driven Bionic Fingers: A Pressure-Dependent Approach	Osman Bayram , Onur Köroğlu, Bilge Toprak, Emre Gür, Mehmet İscan
473 - CNN and LSTM-Based In-Memory Malware Detection: Performance Improvement with Transfer Learning	Şeyma Nur Özdemir , Gözde Karataş Baydoğan, Önder Demir
359 - Optimizing Battery Cooling with Reinforcement Learning: A Dynamic Control Strategy for Energy Storage Systems	Necati Aksoy , Fatih Çakıl, Mustafa Özden
Invited Speaker (Virtual) 11:00 am - 11:30 am <i>"Medical Robotics: An Overview"</i> Assoc. Prof. Dr. Cabbar Veysel Baysal Çukurova University, Türkiye 📍 VRoom 1	
Panel Session (In-Person) "Avionics & Artificial Intelligence" Panelists: Ali Berkol, Nilsun Okan, Uğur Topak, I. Gökçe Demirtaş, G. Nur Yılmaz Moderator: Güven Çankaya 📍 Marmara 1	
Session 23. (Marmara 1 Hall) (In-Person)	
Chair: Nimet Karabacak	Date: May 24, 2025
	Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)
709 - Dam Water Levels Prediction Using Different Time Series Models for Yusufeli and Deriner Dams	Ahmet Enes Yegin , Abdullah Ammar Karcioğlu
463 - Augmented Reality-Assisted Surgical Guidance System for Kidney Nephrectomy with Remote Expert Consultation	Ali Efe Karagül , Murat Hatunoğlu, Anıl Yaşartürk, Emre Sümer
312 - An Approach with Effective Guided Filter and Lipschitz Constraint Based CLAHE for Improving X Ray Image Details	Emre Kağan Aytekin , Mehmet Dikmen
461 - Real-Time Identification and Self-Tuning PID Controller for 1-DOF Helicopter System	Enes Erdoğan , Aydoğan Soylu, Şahin Serhat Şeker, Barış Başpınar, Tufan Kumbasar
26 - SAM Based Automatic Object Segmentation Based on User Selection	Muhammet Tarık Yılmaz , Muhammed Ali Pala
75 - Machine Learning-Supported Strategic Procurement Application for a Construction Chemicals Manufacturer	Mehmet Erol Kara , Ezgi Aktar Demirtaş, Aydın Sipahioğlu
70 - Kansei Engineering Applications to Multifunctional Cooker	Nimet Karabacak
456 - Using Bio-Cryptographic Key Extracted from Heartprint Signal by a Deep Neural Network for Authentication	Orkun Koçak , Saiful İslam, Onur Gümüş, Gökçe Nur Yılmaz
529 - Graph Based Business Process Anomaly Detection with Edge Feature Reconstruction and Advanced Linear Networks	Teoman Berkay Ayaz , Rabia Çevik, Alper Özcan, Akhan Akbulut

Session 24. (Marmara 2 Hall) (In-Person) Chair: Zeynep Altan		Date: May 24, 2025
Paper		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
440 - Computability and Explainability on the Evolution of Intelligent Systems	Zeynep Altan	
436 - Importance Of AI In Acoustic Emission Testing and Enhancement Provided Through Compound AI	Zia Uddin , Serdar Dindar	
366 - Recent Applications of Machine Learning and Deep Learning in Identifying Alloys with Specific Conductivity	Sahba Tabarraei , Omid Karimi Sadaghiani, Ahmet Ekrem Mermer	
358 - Detection of Panic Attacks Using Convolutional Neural Networks on ECG Data	Parisa Ebrahimpour M.T. , Gokhan Soysal, Osman Erogul	
160 - Examining the Impacts of Different Characteristics of Water on Coplanar Patch Antenna	Mehmet Duman , Oğuzhan Mert, Rabia Özkan, Feyza Ramazan, Yusuf Yılmaz, Mustafa Duman, Łukasz Knypinski	
503 - Smart Agents as Customers: A Semi-Autonomous Digital Commerce Model for Industry 5.0	Mehmet Şahin Sümer , Talha Özsoy, Feyza Yıldırım Okay, İbrahim Kök	
61 - Optimized YOLOv8 (YOLO-Prime), M-CNN, and Dynamic Linear Regression for Real-Time Aerial Vehicle Detection in Embedded Systems	Halil Hüseyin Çalışkan , Talha Koruk	
408 - Trajectory Generation and Control for UAVs Using PH-Curves and Kolmogorov-Arnold Networks	Fatma Şengüler Çiftçi , Yesim Oniz	

Session 25. (VRoom 1) (Virtual) Chair: Ebubekir Yasar		Date: May 24, 2025
Paper		Time (GMT+3): 1:30 pm - 3:30 pm
Paper	Author (s)	
468 - IOT Environment and Related Technologies For Monitoring with Deep Learning Methods	Mays Qasim Jebur Al-Zaidawi , Mesut Cevik	
131 - Open-Circuit Fault Detection in T-Type MLI Using XGBoost: A Machine Learning-Based Approach	Murat Karakılıç , Hasan Hataş, İshak Pacal	
305 - Detection of Credit Card Fraud with Machine Learning Methods	Murat Mehmet Koska , Cemal Aktürk, Tarık Talan	
135 - Detecting Clickbait Turkish Titles in YouTube Videos Using Machine Learning	Enes Baydar, Mürsel Uçar , Sibel Dağ, Zeliha Ergül Aydın	
558 - Detection of Parathyroid Adenoma in Primary Hyperparathyroidism using Deep Learning Models	Muhammad Saad Bin Abdul Ghaffar , Radhwan Ali Abdulghani Saleh, Humam AbuAlkebash, Muhammad Kiziltepe, Burcu Alparslan, H. Metin Ertunç	
509 - Electric Vehicle Impacts on Electric Power System: A Literature Survey	İbrahim Arslanoğlu , Mehmet Büyük	
76 - Investigation of Machine Learning-Based Algorithms for Identification of Diabetes Disease	Ali Shafique , Arslan Saleem, Abdul Sami, Muhammad Hamza Ishaq, Hazrat Bilal, Yeliz Yesilada	
502 - SCADA-Based Smart Grid: Integrating PV Systems and PLC Automation Using TIA Portal	Anas Abduladheem Kamil , Laith A. Al-Anzy, Shamam Alwash	

Session 26. (VRoom 2) (Virtual) Chair: Oğuzhan Pektezel	
Date: May 24, 2025 Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
702 - Comparative Analysis of M5 and MOH Core Materials in Dry-Type Transformers Electromagnetic Performance and Cost Evaluation	Tugce Saadet Altunsoy , Merve Demirci, M. Cengiz Taplamacioglu
437 - Cloud-based Ambulance Tracking and Movement Facilitation Through Traffic Light Control	Abeer Khadhim , Laith A. Al-Anzy, Hadeel Abdullah Mohammed
484 - Automatic Language Identification from Speech using Transformer-Based Models	Hasan Kilimci, H.Hakan Kilinc , Zeynep Hilal Kilimci
411 - Project Management for Scientific Research: Strategy, Leadership, and Implementation	Arpan Dutta
471 - Advanced Anomaly Detection Framework Using CNN-Grid Autoencoder Integration and Recursive Fuzzy Feature Selection Approach	Reem Talal Al-Dulaimi Al-Dulaimi, Ayça Kurnaz Türkben Türkben, Mohammed Kareem Hussein , Ali Tariq Kalil Al-Khayyat, Osman Nuri Ucan
611 - UAVs Navigation Environment Reconstruction Using Active Vision System	Ihab Elaff
612 - Modelling Humanoid Robot Audition for Sound Source Localization Using Artificial Neural Network	Mohammad Ibrhaim Al Karaki, Ihab Elaff
511 - Deep Learning-based Ensemble Multi-Architecture Model with Hybrid Approach for CIFAR10	Veli Nakçı, Gökner Arıcan , Eren Aktaş, Mustafa Altun
17 - Cost Distribution in ICT Infrastructure During the AI Era: A Model for Data Centers, Power Grids, and Telecommunications	Ioannis Patias

Session 27. (VRoom 3) (Virtual)Chair: Turgut Ozseven	
Date: May 24, 2025 Time (GMT+3): 1:30 pm - 3:30 pm	
Paper	Author (s)
156 - IoT-Based Smart Farming: Benefits, Attacks, and Security Solutions	Kadir Ileri
63 - Autonomous UAV-Based Monitoring of Fuel Tanks Using YOLOv8 for Global Energy Management	Nesli S. Azdavay, Lesława M. Nowakowska, Zofia G. Zajac, İlayda Boz
522 - Maximizing Energy Efficiency in a Solar Tracking System Using IoT-Based Image Processing	İsra Narman , Gökhan Uçkan
93 - Advancing Solar Panel Inspections: UAV-Based Detection of Cracks Using YOLO Algorithms	Mahrus Thabit Moghadam, Funda Sermsar, Mert Akin Maydamis, Merve Koca
506 - Comparative Analysis of MPC, RL and P&O for MPPT of PV Systems Under Partial Shading Conditions	Hisham Darwish , Tolgay Kara
416 - Analyzing Correlations Between Refined Comfort Score, Usability, and Performance in Assistive Technology	Hakan Özcan
298 - The Analysis of Leakage Inductance for Planar Transformer	Halil Bayramoğlu , Erdem Akboy

Session 28. (Marmara 1 Hall) (In-Person) Chair: Ezgi Yağmur Çakmak Cebesoy	
Date: May 24, 2025 Time (GMT+3): 4:00 pm - 6:00 pm	
Paper	Author (s)
516 - vEMB-SLAM: An Efficient Embedded Monocular SLAM Framework for 3D Mapping and Semantic Segmentation	Abdulsamed Dönmez , Bekircan Köseoğlu, Mert Araç, Serkan Günel
553 - Recent Applications of Machine Learning and Deep Learning in the Development of Superconductors	Ahmet Ekrem Mermer , Omid Karimi Sadaghiani, Sahba Tabarraei
337 - A Computer Vision-Based Physical Activity Application for Children with Autism	Eda Obuz , Kaan Toraman, Serdar Solak
507 - A Short Survey on Embedded AI with Edge Computing for Maritime Applications	Ali Kılınc, Ezgi Yağmur Çakmak Cebesoy , Volkan Uslan
336 - A Digitalized Business Wargame Model for Foresight-based Future Planning and Decision-Making	Kaan Toraman , Eda Obuz, Merve Durukan Kaya, Serdar Solak
415 - Bridging Genetic Algorithms and Gradient-Based Learning: A Case Study on the Dinosaur Game	Ömer Bilgin Bilgili , Kemal Uçak
307 - Maximum Period Pseudo-Random Number Generator Filter Based on Hash Function	Eyyub Abbasquliyev , Irada Rahimova, Roman Korolov, Tetiana Milevska
303 - A Comparison Study on the Selection of the Optimum Electrical Equivalent Circuit Model for Lithium-Ion Batteries and Parameter Accuracy Analysis by the Least Squares Method	Seyit Emre Ozcan , Hayri Arabacı

Session 29. (Marmara 2 Hall) (In-Person) Chair: Hilal Bingöl	
Date: May 24, 2025 Time (GMT+3): 4:00 pm - 6:00 pm	
Paper	Author (s)
270 - Use of Classification Algorithms in the Determination of Diabetes Level and Drug Recommendation Process	Nisa Şahinoğlu, Hasret Irmak Baran , Gulay Cicek
347 - Controller Synthesis with a Cone Complementarity Linearization Algorithm for CACC System Under Time-varying Delay	Hilal Bingöl
32 - Capturing Aerodynamic Characteristics of ATTAS Aircraft with Evolving Intelligent System	Aydoğan Soylu , Tufan Kumbasar
464 - Hybrid Learning Approach for Accurate Resolver Position Estimation Based on Error Metrics	Mert Aygen Ercan , Sibel Zorlu Partal
230 - NLP-Driven Fake News Detection: A Machine Learning Perspective	Mert Korkut Çoban , Gokhan Bakal
229 - Detection of Tobacco Use through Motion Analysis from Camera Images	Zilan Aze Karabay , Mustafa Özden
426 - Classification of Ear Diseases from Otoscopic Images Using DenseNet121 and Grow-and-Learn Network	Merve Yağmurcu , Özlem Polat
485 - Optimizing Deep Learning Models for Ophthalmic Disease Detection on Resource-Constrained Devices	Zaina Abushaban , Salih Eren Yüzbaşıoğlu, Selma Dilek, Suleyman Tosun

Session 30. (VRoom 1) (Virtual)	
Chair: Ebubekir Yasar	Date: May 24, 2025
	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
217 - ASL UNDERPRESSURE: Gamification of American Sign Language Learning Through Human-Computer Interaction	Osama Atia, Hussam Asskar , Oussame El Kharchy, Wisam Elmasry
530 - Reflective Surface Detection and Its Impact on SLAM Trajectory Accuracy	Ibrahim Aydin , Ertugrul Bayraktar
278 - Use Of Logic Functions In The Diagnosis Of Hepatitis Disease Through A Web-Based Expert System Design: A Different Approach	Hayri Incekara , Inayet Hakki Cizmeci
360 - Investigation of Structural Response of Active Acoustic Metamaterial Cell	Fevzi Cakmak Bolat , Neven Alujevic
35 - Imitation Learning for Autonomous Driving: Insights from Real-World Testing	Hidayet Ersin Dursun , Yusuf Güven, Tufan Kumbasar
62 - Deep Learning and Remote Sensing for Intelligent Damage Detection in Industrial Pipelines	Melis Duhter, Hilal Kuzu
216 - Prediction of fake news on X: An analysis of LLMs and machine learning methods on TruthSeeker	Dilara Çelik , Recep Sinan Arslan
78 - Improved YOLOv9 for Real-Time Traffic Sign Detection in Intelligent Transportation Systems	Behiye Sahin , Ipek Neslihan Alpugan
79 - Enhancing Occupational Safety through Deep Learning-Based Helmet Detection in Hazardous Workplaces	Koksal Semercigil, Ipek Neslihan Alpugan, Behiye Sahin , Mehmet Metin Bozbey

Session 31. (VRoom 2) (Virtual)	
Chair: Oğuzhan Pektezel	Date: May 24, 2025
	Time (GMT+3): 4:00 pm - 6:00 pm
Paper	Author (s)
613 - Human Face Localization in 3D For Humanoid Robot Vision	Insaf El Guemmam, Ihab Elaff
202 - Enhancing Explainability of Chemical Oxygen Demand Prediction Models for Industrial Wastewater Treatment in Delfzijl, the Netherland	Kamil Dimililer, Ismaila Abubakar Bobboi
200 - A Computationally Efficient Approach to Nonlinear Control and Estimation of a Slider-to-Gimbal Platform	Esra Kurhan , Berk Vatan, Altay Dursun, Emre Gür, Mehmet Iscan
271 - Handling Class Imbalance Problem for Diabetic Retinopathy Fundus Image Classification	Chibuzor Iluno , Melike Sah
226 - LQG/LTR Controller Design to Single-Link Rotary Flexible Joint	Furkan Yazıcı , Ufuk Güner
512 - Enhancing Cancer Treatment with AI: Deep Learning for Predicting Neoadjuvant Therapy Response	Bitä Kheibari , Şebnem Bora, Burçin Pehlivanoğlu, Anıl Aysal Ağlar, Özgül Sağol
703 - Topic-Aware Multi-Class Classification for Financial Complaints: Comparing BERTopic with Classical Machine Learning Algorithms	Sezer Uğuz , Mert Kumbasar, Gül Tokdemir
466 - A Multi-authority Security System based on the Cloud and Radio Frequency Identification Systems	Hadeel Abdullah Mohammed
544 - Dictionary-based data augmentation for Libyan dialect	Hassan Ebrahim , Imen Touati, Lamia Belguith
354 - Building Trust in AI for Public Administration: A Strategic Framework for Transparency, XAI, Participation, and Digital Literacy	Panagiotis Tsarouhas, Konstantinos Grigoriadis

Session 32. (VRoom 3) (Virtual) Chair: Turgut Ozseven	
Date: May 24, 2025 Time (GMT+3): 4:00 pm - 6:00 pm	
Paper	Author (s)
501 - Atom Search Optimizer-driven Lead Compensator Design for Unstable Ball and Beam System	Serdar Ekinci , Davut Izci, Mohammad Salman , Raymond Ghandour
45 - Global Numerical Optimization Using Tent Chaotic Maps and Golden Sine Mechanism Enhanced Artificial Electric Field Algorithm	Afi Feda, Ezgi Ulker, Abosede Tibetan, Opeoluwa Ojekemi, Oluwaseun Ojekemi, Oluwatayomi Adegboye
353 - The performance of modified SEPIC converter for dynamic conditions with PI controller	Muhammed Mahho , Mehmet Yılmaz, Muhammed Fatih Çorapsız
57 - Efficient Path Planning for Differential Drive Mobile Robots Using the Rapidly-Exploring Random Tree (RRT) Algorithm	David W. Simone, Jean M. Pavos, Nahom Kidane, Muhammed Nurullah Avran
58 - Trajectory Tracking and Control of Differential Drive Mobile Robots Using Feedback Linearization	Nahom Kidane, Muhammed Nurullah Avran , Jean M. Pavos, David W. Simone
339 - High-Quality Synthetic Image Generation for Accurate Classification of Brain Tumors Using ACGAN	Mert Büyükdede, Doruk Kılıç
480 - Real-Time Communication for Smart Methane Power Generation in Wastewater Treatment using PLC S7-1200-SCADA	Luay Mahdi , Samir Jasim, Qais Al-Gayem

Session 33. (VRoom 1) (Virtual) Chair: Ebubekir Yasar	
Date: May 24, 2025 Time (GMT+3): 6:30 pm - 8:30 pm	
Paper	Author (s)
130 - YouTube Video Comments Sentiment Analysis Using Custom NLP Model	Yavuz Selim Ercikan , Wisam Elmasry
524 - Solar Energy and Supercapacitor Integration: Efficient Energy Storage Solutions	Yusuf Dayar , Fesih Keskin
80 - Scalable Optimization for Drone and Mobile Robot Routing Using Genetic Algorithms	Orxan Shahbazov, İlqar Mamishov, Nesli Elxansoy, Zeynep Sahutoglu
81 - The Impact of Aerial Vehicle Quantity and Battery Capacity on Task Route Planning in Multi-Hybrid Systems	Sukur Mehraliyeva, Nesli Elxansoy, Orxan Shahbazov, Zeynep Sahutoglu
201 - Plant Disease Classification Using an Ensemble Learning Model of Convolutional Neural Networks and Vision Transformers	David Aderinwale , Melike Sah
261 - A High-Efficiency LLC Resonant Converter For LED Driver Applications	Yüksel Baş , Erdem Akboy
520 - Obesity Prediction Using Machine Learning Methods: Performance Analysis of DT, RF, and ANN Models	Huseyin Fatih Sen, Yavuz Selim Taspinar
505 - Automatic Botox Injection Points Detection Based on Deep Learning	Tolgahan Gulsoy , Elif Baykal Kaban, Selen Ayas, Leyla Baykal Selcuk, Deniz Aksu Arica
555 - A Comparative Analysis of Deep Learning Architectures for Robust Fruit Detection	Rukiye Ertürk Erşahin , Fesih Keskin
269 - Design and Development of a Modular Mission Control Board for Autonomous Systems	Şiar Tunçdemir , Ömer Can Tolun

Session 34. (VRoom 2) (Virtual)	
Chair: Oğuzhan Pektezel	
Date: May 24, 2025	
Time (GMT+3): 6:30 pm - 8:30 pm	
Paper	Author (s)
469 - Leveraging Machine Learning to Analyze Socioeconomic Disparities in U.S Cancer Clinical Trials	Krysta Ray , Robin Ghosh
428 - Enhanced Environmental Awareness and Security for Smart Devices using WiFi-Sensing	Gad Gad , Iqra Batool, Mostafa M. Fouda, Zubair Md Fadlullah, Mohamed I. Ibrahim
431 - EXAD: A Framework for Designing Explanations in Adaptive User Interfaces	Iqra Batool , Gad Gad, Mostafa M. Fouda, Mohamed I. Ibrahim, Zubair Md Fadlullah
29 - Artificial Intelligence in Telehealth: Enhancing Diagnostic, Monitoring, and Accessibility Solutions	Saket Ganti
348 - Hybrid CMOS Low Noise Amplifier with Kapu Optimizer	Zainab Mustafa Hussein , Hassan Jassim Motlak
412 - Impact of Image Filtering Techniques on Deep Learning-Based Kidney Disease Classification Using CT scans	William Olurotimi Falana , Kamil Dimililer
227 - Deep-Learning-Based Image Preprocessing and Classification for Kidney Disease Detection in CT Scans	William Olurotimi Falana , Ali Serener, Ayodeji Falana, Samuel Nii Tackie
417 - Advancing Simulation of 6-Mercaptopurine and Methotrexate Therapy by Using Synthetic Childhood Acute Lymphoblastic Leukemia Patients	Utku Kose , Gamze Yuksel, Sadik Kacakci, Mustafa Can Ince, Hakan Sokun
232 - A Preliminary Research on Lightweight approach of Noise Reduction in Image Processing: Gaussian Smoothing and Super-Resolution via Resizing	Kamil Dimililer, Rasha Habeeb

Session 35. (VRoom 3) (Virtual)	
Chair: Turgut Ozseven	
Date: May 24, 2025	
Time (GMT+3): 6:30 pm - 8:30 pm	
Paper	Author (s)
311 - Rule-Based And AI-Based Routing Protocols For Mobile Ad Hoc Networks: A Comparative Review	Maier AL-Mashhadani , Kamel Karoui
460 - Secure Data Exchange Technologies in Mobile and IoT Devices	Serhii Pohasii, Maksym Tkach , Anatolii Salii, Tymur Kurtseitov, Dmytro Pecherytsia, Vitalii Hrunovych
140 - Ontology-Based Intelligent Control and Optimization of Ukraine's Energy System	Natalia Chernova , Olena Serhienko, Inna Ippolitova, Oleksiy Petrukhnov, Oleksandr Kaganovskyy, Andrii Negliad
413 - Preliminary Design and Methodological Framework for an AI-Driven Decision Support System in Earth Observation Satellites	Abdallah Alabed , Tarık Özkul
167 - Energy Generation Forecasting in Biomass Power Plants: Integrating AI and Smart Grid Technologies	Abdullah Kürşat Aktar , Murat Karakılıç, İshak Pacal
401 - Actor-Critic Reinforcement Learning for Helicopter Trim Actuators: An Optimal Control Approach with Hamilton-Jacobi-Bellman Principles	Batuhan Temiz , Osman Bayram, Onur Köroğlu, Emre Gür, Mehmet Iscan
73 - Artificial Intelligence-Driven Decision Support System for Career Planning	Batuhan Kışlacı , Hanife Yıldızhan, Rasim Fatih Zengin, Zeliha Ergül Aydın
134 - Identifying Limitations in End-to-End Testing: A Systematic Review of Coverage Analysis Techniques	Blerand Zendeli , Artan Luma, Besnik Selimi, Blerim Rexha