



# 8<sup>th</sup> International Congress on Human- Computer Interaction, Optimization and Robotic Applications

CONGRESS PROGRAM

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May 21-23, 2026 | Radisson Blu Hotel | Ankara-Türkiye

Thursday, May 21, 2026

Time (GMT+3)	Virtual	
	ROOM 1	ROOM 2
9:00 AM - 10:30 AM	<b>PARALLEL SESSION - VS 1.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 1.2</b> Chair: Muhammed Çelik
10:30 AM - 11:00 AM	Coffee Break	
11:00 AM - 12:30 PM	<b>PARALLEL SESSION - VS 2.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 2.2</b> Chair: Muhammed Çelik
12:30 PM - 01:30 PM	Lunch	
01:30 PM - 03:30 PM	<b>PARALLEL SESSION - VS 3.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 3.2</b> Chair: Muhammed Çelik
03:30 PM - 04:00 PM	Coffee Break	
04:00 PM - 07:00 PM	<b>PARALLEL SESSION - VS 4.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 4.2</b> Chair: Muhammed Çelik

Friday, May 22, 2026

Time (GMT+3)	In-person		Virtual		
	Hall: ISTIKLAL 5	Hall: ISTIKLAL 6	ROOM 1	ROOM 2	ROOM 3
9:00 AM - 10:30 AM	<b>PARALLEL SESSION - IPS 1.1</b> Chair: Turgut Özseven	<b>PARALLEL SESSION - IPS 1.2</b> Chair: Hüseyin Emre Kankaya	<b>PARALLEL SESSION - VS 5.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 5.2</b> Chair: Muhammed Çelik	
10:30 AM - 11:00 AM	Coffee Break				
11:00 AM - 12:30 PM	<b>PARALLEL SESSION - IPS 2.1</b> Chair: Gökçe Nur Yılmaz	<b>PARALLEL SESSION - IPS 2.2</b> Chair: Nuraini Jamil	<b>PARALLEL SESSION - VS 6.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 6.2</b> Chair: Muhammed Çelik	
12:30 PM - 01:30 PM	Lunch				
01:30 PM - 02:00 PM			<b>Invited Talk - ROOM 2</b> Dr. Korhan Cengiz Chair: Muhammed Çelik		
02:00 PM - 03:30 PM	<b>PARALLEL SESSION - IPS 3.1</b> Chair: Kamran Dawood	<b>PARALLEL SESSION - IPS 3.2</b> Chair: S. Mert Özer	<b>PARALLEL SESSION - VS 7.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 7.2</b> Chair: Muhammed Çelik	
03:30 PM - 04:00 PM	Coffee Break				
04:00 PM - 07:00 PM			<b>PARALLEL SESSION - VS 8.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 8.2</b> Chair: Muhammed Çelik	<b>PARALLEL SESSION - VS 8.3</b> Chair: Safa Enes Turkoglu

Saturday, May 23, 2026

Time (GMT+3)	In-person		Virtual		
	Hall: ISTIKLAL 6	Hall: ISTIKLAL 6	ROOM 1	ROOM 2	ROOM 3
9:00 AM - 10:30 AM	<b>Tutorial Session</b> Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy	<b>PARALLEL SESSION - IPS 4.1</b> Chair: Asli Beyza Ciftpinar	<b>PARALLEL SESSION - VS 9.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 9.2</b> Chair: Muhammed Çelik	
10:30 AM - 11:00 AM	Coffee Break				
11:00 AM - 12:30 PM	<b>Tutorial Session</b> Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy	<b>PARALLEL SESSION - IPS 5.1</b> Chair: Souleyman Doutoum Assad	<b>PARALLEL SESSION - VS 10.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 10.2</b> Chair: Muhammed Çelik	
12:30 PM - 01:30 PM	Lunch				
01:30 PM - 03:30 PM	<b>SPECIAL SESSION - EXIT-ANA 2026</b> Chair: Murat Karakuş	<b>PARALLEL SESSION - IPS 6.1</b> Chair: İrem Şimşek	<b>PARALLEL SESSION - VS 11.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 11.2</b> Chair: Muhammed Çelik	<b>PARALLEL SESSION - VS 11.3</b> Chair: Safa Enes Turkoglu
03:30 PM - 04:00 PM	Coffee Break				
04:00 PM - 06:00 PM	<b>PARALLEL SESSION - IPS 7.1</b> Chair: Yusuf Garga Bello	<b>PARALLEL SESSION - IPS 7.2</b> Chair: Ercan Aykut	<b>PARALLEL SESSION - VS 12.1</b> Chair: Ebubekir Yasar	<b>PARALLEL SESSION - VS 12.2</b> Chair: Muhammed Çelik	<b>PARALLEL SESSION - VS 12.3</b> Chair: Safa Enes Turkoglu

PARALLEL SESSION - VS 1.1	ROOM 1
Date: Thursday, May 21, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
432 - Deep Learning-Based BI-RADS Classification for Early Diagnosis in Mammography Images	<b>Adem Alp Şahin</b> , Hamit Barış Ersan, Ali Can Karaca, Rukiye Başkara, Osman Furkan Karakuş
238 - Data-Driven Parametric Energy Optimization of Mecanum Wheeled Mobile Robots on Constrained Trajectories	<b>Anıl Gökhan Göktaş</b> , Semih Sezer
469 - Hardware Acceleration of User-Based Collaborative Filtering on an FPGA-Based SoC	<b>Burak Batmaz</b> , Zeynep Batmaz
530 - SQP-Based Energy-Efficient Hybrid Beamforming for ISAC Systems	<b>Doğukan Uykun</b> , Murat Temiz
243 - A Study on Efficient Retrieval for Qwen-based RAG Systems	<b>Elif Naz Türk</b> , Batuhan Arıkan, Ahmet Tuğrul Bayrak
108 - Transformer-Based Semantic Similarity for Duplicate Detection in R&D Project Proposals: A Case Study on the TUSAŞ LIFT UP Program	<b>Ensar Akbaş</b> , Berkay Yüce, Hakan Ayтуğ Fırat, Batuhan Umay, Serdar Solak
184 - Enhancing Trust in Automated Fact-Checking: Claim Veracity Classification via Transformers and Explainable AI	<b>Mustafa Etcil</b> , Gokhan Bakal

PARALLEL SESSION - VS 1.2	ROOM 2
Date: Thursday, May 21, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
12 - Machine Learning-Based Vehicle Behavior Classification in Highway Ramp Merging Areas	<b>Ibrahim Yusuf</b> , Mohammed Al-Hubaishi, Büşra ŞAHİN
549 - A Modular Software Architecture for Tool Tracking and Calibration Compliance in Aviation Maintenance Systems	<b>Juliana ROMIALISON</b> , Datkaiym SAGYNBEKOVA, Francky RONSARD, Hadeel TAQI, Kamil Cem BULUT, Serdar SOLAK
554 - Modeling and Analysis of Hybrid Renewable Energy Systems Using Artificial Neural Networks for Short-Term Power Forecasting	<b>Ivelina Metodieva</b> , Stoyan Bozhkov, Ivelina Takeva-Beberova
487 - Scalable Hybrid LSH-Based Framework for Structural Code Clone Detection	<b>Dasun Wickramasooriya</b> , Bilal Awshid, Hasintha Dilshan, Sudila Jayasekara, Nuwan Kodagoda, Kalpani Manathunga
42 - Rule-Based Knowledge Distillation for Interpreting Random Forest Decision Functions	Mert Büyükdede, <b>Esmâ Gülfem Aktaş</b>
106 - When to Fly: A Passenger Decision-Support System Based on Climate-Sensitive Flight Disruption Likelihood	<b>Nasim Ahmadzadeh Nobari Azar</b> , Mohammad Karami
281 - Phoneme-Based Accent-Adaptive Speech Recognition for Accurate and Mispronunciation Feedback	<b>Chalana Fernando</b> , Dinithi Sanjana, Akila Ishan, Savishka Dilshan, Poojani Gunathilake, Dharshana Kasthurirathna
357 - A Structured Approach to Grammar and Style Checking of Scientific Texts with ChatGPT	<b>Aldeniz Rashidov</b> , Fatme Rashidova

PARALLEL SESSION - VS 2.1	ROOM 1
Date: Thursday, May 21, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
401 - Negotiating Generative AI in Education: Topic Modeling of Stakeholder Discourse on Reddit	<b>Prabha Kumarage</b> , Sachini Gunasekara, Mirka Saarela
346 - Efficient Hybrid Deep Learning Framework for Accurate Day-Ahead Electricity Price Forecasting in the Danish DK1 Market	<b>Zainab Faris</b> , Ehab Abdulrazzaq Hussein
266 - Global Careers, Local Belonging: Digital Technologies and Place-Belongingness in Professional Sport	<b>Hesam Mohseni</b> , António Correia, Johanna Silvennoinen, Tommi Kärkkäinen
409 - LankaLens: A Mobile-Based Heritage Exploration System for Artifact Reconstruction and Location Tracking	<b>Hasara Herath</b> , Upadhya Dissanayaka, Kavishka Bandara, Miyuru Gunawardhana, Aruna Ishara, Nushkan Nismi
502 - A Secure and Scalable Fintech-as-a-Service Architecture for Digital Wallet Ecosystems	<b>Busra Ozdenizci Kose</b> , Usame Yilmaz, Vedat Coskun, Murat Yalcinsoy
275 - From the Pitch to the Virtual Workspace: Using an Autoethnographic Diary to Study Video Analysis as a Situated Practice in Finnish First-Tier Football	<b>Antti Nyman</b> , Tommi Kärkkäinen, Antti Ekonoja, Hesam Mohseni, Daniel Schneider, António Correia
412 - History-Aware Dynamic Quantum Time Allocation for Round Robin Scheduling	<b>İdris Batuhan Aydn</b> , Süleyman Tosun

PARALLEL SESSION - VS 2.2	ROOM 2
Date: Thursday, May 21, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
382 - Experimental Validation of IMU-based Tilt Estimation Algorithms for Self-Balancing Two-Wheeled Vehicles	Paolo Righettini, <b>Jasmine Santinelli</b> , Marco Rebellin, Filippo Cortinovis, Federico Tabaldi, Bruno Zappa
590 - Application of a Systematic MBSE-Based Procedure to the Mechatronic Design of an Intralogistics Autonomous Self-Balancing Vehicle	Paolo Righettini, Roberto Strada, Filippo Cortinovis, <b>Jasmine Santinelli</b> , Andrea Martinenghi, Marco Rebellin, Vittorio Lorenzi
389 - Synergy Model of Threats in DeFi Smart Contracts	Vladyslav Khvostenko, Olexander Shmatko, Yelyzaveta Sevriukova, <b>Illia Bukatych</b> , Iegorashyn Oleksandr, Iurii Iashunin
301 - Why Beginners Abandon Quantum Programming: Barriers to Developer Experience and a Scaffolding Approach to Development Environment Setup	<b>Eduard Ciriaco</b> , Vlad Stirbu, António Correia
499 - A Hybrid CNN-BiGRU Model with Multi-Head Self-Attention for EEG Based Sleep Stage Classification	<b>Evin Şahin Sadık</b>
286 - A Fuzzy Logic Approach for Temporal and Repetitive Evaluation of Neck Movements in RULA-Based Ergonomic Assessment	<b>Oğuz Gora</b> , Hakan Dalkılıç
378 - SMPL Virtual Try-On (S-VTON): A Solution for Systemic Challenges in Apparel Industry	<b>Ömer Faruk Ereken</b> , Cigdem Tarhan

PARALLEL SESSION - VS 3.1	ROOM 1
Date: Thursday, May 21, 2026	Time (GMT+3): 01:30 PM - 03:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
242 - PoS-FedFraud: A Robust Proof-of-Stake Framework for Decentralized Financial Fraud Detection in Federated Learning	<b>Safak Kayikci</b> , Taghi M. Khoshgoftaar
219 - A Machine Learning Approach Based on Combined Feature Ranking and Targeted Ablation in Early-Stage Diabetes Risk Prediction	Nurullah Öztürk, <b>Sermin Güngör</b>
503 - Intelligent Guidance Algorithms for Autonomous Unmanned Interception Systems: Smart Information Processing and Decision-Making	<b>Stanislav Milevskyi</b> , Natalia Brynza, Olena Serhiienko, Maryna Mashchenko, Natalia Chernova, Rostyslav Dydiak
2 - Multi-Timeframe Forecasting of Ethereum Prices: A Comparative Study of Statistical and Deep Learning Models	<b>Drissia Ennagoura</b> , Kamal El Kehal, Safae Merzouk , Abdelhamid Berdai, Badre Bossoufi, Khalid El Fahssi, Mohamed El Far , Mohamed Taj Bennani
563 - Link-Specific Fuzzy Classification of Transfer Time Based on Passenger Behavior in Urban Rail Systems	<b>Taha Yüksel</b>
388 - Hybrid-Iteration Optimal Frequency Regulation for Power Systems with Stochastic Operating Modes	<b>Yulan Liao</b> , Shengda Tang
200 - Multifrequency FSS Design for Smart EM Windows	<b>Yiğit Parlak</b> , Sultan Can
477 - Akura: Dyslexia Aware Sinhala Essay Grading System	Nuwani Fonseka, <b>Tiny Handalage</b> , Sadeesha Perera, Hasindu Rangika, Kalpani Manathunga , Aparna Jayawardena
148 - Modeling and optimization of noise-tolerant coding algorithms for 6G-oriented communication networks	<b>Sergii Dunaiev</b> , Stanislav Milevskyi, Iryna Aksonova, Mykhailo Zhyhalov, Oleksandr Pasko, Ruslan Trofymenko

PARALLEL SESSION - VS 3.2	ROOM 2
Date: Thursday, May 21, 2026	Time (GMT+3): 01:30 PM - 03:30 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
290 - Core Components of Enterprise AI Agents	Zeynep Örpek, Büşra Tural
120 - Optimizing Digital Identity Resilience: A Systematic Literature Review of Adversarial Generative AI using GANs and LLMs	Sahar Ebadinezhad, Temiloluwa Oluwabukunmi Modupeola
558 - Flow-Level Statistical Fingerprinting for Unsupervised Network Intrusion Detection	Induru Perera, Prageeth Pahanpriya, Chathumal Abeysinghe, Rashminda Iddamalgoda, Jayakody J A B C, Hanojhan Rajahrajasingh
407 - Engaging Immersive Virtual Reality Learning Environment for students Using Haptic Technology	Nushkan Nismi, Kalpani Manathunga
383 - LLM-Mediated Nudge-Based Text Detoxification: Influencing User Choices to Mitigate Hate Speech	Luiz Filipe Brandi, António Correia, Geraldo Xexéo, Daniel Schneider
422 - JuriAid : Legal Research and Evidence Assistant	Lavanga Sammani, Samidi Prarthana, Chathumina Kaushal, Rasindu Nethmina, Jeewaka Perera, Madusha Weerasooriya
415 - Deep Learning-Based Quantitative Coral Growth and Bleaching Assessment, Thermal Forecasting, and GIS-Based Coral Nursery Placement Planning	Dinithi Wickramaarachchi, Sahan Kavishka, Senith Udara, Gimhani Brahmanage, Samitha Vidhanaarachchi, Thilini Jayalath, Hansi De Silva

PARALLEL SESSION - VS 4.1	ROOM 1
Date: Thursday, May 21, 2026	Time (GMT+3): 04:00 PM - 07:00 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
37 - Development of an Intelligent Prosthetic Leg Using EMG-Based Gait Phase Classification	Hussnain Khan, Sannan Ahmed Gulzar, Ali Raza, Yasir Awais Butt, Hafiz Zia-ur-Rehman, Muhammad Umer Khan
534 - Feature Selection for Time-Series Classification: Traditional, Optimization, and XAI-Based Methods	Anita Razafindrakotovao, Feyza Yıldırım OKAY, Mehmet Ulvi Şimşek
497 - Methods for Driver Fatigue Detection Using Computer Vision and Machine Learning	Bauyrzhan Smakanov, Indira Uvaliyeva
444 - Real-Time Temperature Control of a Smart Oven on an 8051 Microcontroller with Android Remote Control and Modbus Communication	Betim Hoxha, Lavdim Kurtaj, Vojsa Shatri, Sabrije Osmanaj
236 - Analysis of Temporal Consistency in Video-Based Palmprint ROI Tracking	Betül Koşmaz Sünnetci, Özkan Bingöl, Eyüp Gedikli
240 - A Comparative Survey of IoT Platforms: Architecture, Security, and Emerging Trends Toward Distributed Intelligence	Md Asef Jawad, Mohammad Mehedi Hasan Munna, Reefka Fableha Tulona, Nahid Hossain Antu, Acramul Haque Kabir
255 - AI-Driven Fabric Defect Detection and Monitoring System for the Apparel Industry in Sri Lanka	Janindu Nagahawaththa, Sachintha Kamburugamuwa, Thisara Jayasinghe, Duvidu Gamage, Jenny Krishara, Aparna Jayawardena
185 - Development of a scheme for conducting threat analysis for critical infrastructure facilities in Ukraine	Alla Havrylova, Dmytro Svitlychnyi, Andrii Tkachov, Andrii Shpak, Dmytro Pecherytsia, Olha Kryvytska
366 - Lightweight CNN Architectures for Cross-Sector Manufacturing Defect Classification in Industry 4.0 Environments	Cemre Gozde Uyar, Sureyya Engin, Aykut Muderrisoglu, Kazim Yildiz
356 - AquaNext: Intelligent Aquaculture Based on IoT and AI for Sustainable Shrimp Farming in Sri Lanka	Deranindu Gunasekara, Samadi Senavirathna, Piyumali Palihawadana, Raveen De Silva, Junius Anjana Vidanaralage, Osuri Dunuwila
334 - Topology-Aware Predictive Autoscaling for Kubernetes Microservices Using Deep Learning	Dileepa De Silva, Abhishek Peiris, Anjana Anurathna, Niduka Konara, Hansi De Silva, Dharshana Kasthurirathna

PARALLEL SESSION - VS 4.2	ROOM 2
Date: Thursday, May 21, 2026	Time (GMT+3): 04:00 PM - 07:00 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
340 - 'Can AI Care?': Emotional Tone Analysis and Perceived Empathy in AI-Generated Health Advice	Maryam Irfan, Tommi Kärkkäinen, António Correia
479 - Multi-Criteria Review Scoring in E-Commerce with LLM-Based Validation	Zehra Sude Sarı, Oğuzhan Durmaz, Gökay Dağdaş, Serkan Uslu, Okan Burak Karaca, M. Fatih Akay
472 - Information Access Strategies in Large Language Models: Base Model, Fine-Tuning, and RAG Analysis	Zeynep Destan, Zeynep Örpek, Büşra Tural, Erva Alp
460 - The Impact of Architectural Components on Deep Learning-Based BCG Artifact Removal	Perihan Gülşah GÜLHAN, Güzin ÖZMEN
32 - SNR Prediction and SNR-Aware Optimization based on Artificial Neural Networks in Wireless Communications: A Review	Mustafa Qasim, Cemal Kavalcioğlu, Samuel Nii Tackie, Kamil Dimililer
34 - Deterministic Adaptive Testing with Verification: Score Alignment, Convergence, and Efficiency	Rusen Meylani
576 - Next-Gen Mobile Forensics Tool: Timeline Reconstruction from Android Digital Evidence	Supitha Pathirana, Rasan Dushmantha, Chamara Jayarathna, Behan Thilakarathna, Amila Senarathna, Ayesha Wijesooriya
582 - A Hybrid Multi-Modal AI Framework for Insider Threat Detection in Hybrid Work Environments	Malith Athapaththu, Chethana Rathnayake, Sahan Jayawardhana, Kaveesha Wanasingha, Kanishka Yapa, Harinda Fernando
169 - Token-Budget-Aware Context Selection for RAG via Integer Linear Programming	Samuel Taiwo, Mohd Amaluddin Yusoff, Kelechi Enyioha
400 - Grounding Sports Analytics in Knowledge Graphs with Large Language Models	Osman Dogukan Kefeli, Dogugun Ozkaya, Serdar Eric, Gökhan İnce
417 - ALTRUS – Adaptive Life-support and Therapeutic Robotic Unit System	Sasindu Praveen, Kushanka Semasinghe, Supun Madushanka, Hansi De Silva, Ashvinda Iddamal goda, Bhanuka Edirisinghe

PARALLEL SESSION - IPS 1.1	HALL: ISTIKLAL 5
Date: Friday, May 22, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Turgut Özseven	Presentation Format: IN-PERSON
592 - Evaluating COMPASS for Socially-Aware Robot Navigation in Dynamic Indoor Environments	Rahmi Kavak, Özgür Yılmaz
541 - A Morphology-Aware Framework for Validating Synthetic Tsunami Time Series Under Measurement Uncertainty	Selçuk TOKGÖZ, Mustafa AÇIKKAR, Baran AYDIN
532 - An Integrated Machine Learning Pipeline for the Hospitality Industry: Customer Segmentation, Churn Prediction, and Hybrid Revenue Forecasting	Ali Kerem Güler, Osman Saraç, Mehmet Göktürk
495 - Design of an Ultra-Wide Stopband CSRR Microstrip Bandpass Filter for L-Band Applications	Emre Salim, Yiğit Parlak, Sultan Can
207 - FEM-Based Modeling and Analysis of Demagnetization in an Outer-Rotor PMSM With FOC Control Using Co-Simulation	BUSRA CELIK, TOLGAY KARA
475 - Co-Simulation Based Field-Oriented Control of an Outer Rotor Permanent Magnet Synchronous Generator	BUSRA CELIK, TOLGAY KARA, ROBERTO QUİNTAL PALOMO
567 - Quantitative Analysis of Coherence Length and Phase Noise Effects on Interferometric Fiber Optic Sensors	Ezgi Yağmur Çakmak Cebesoy, Arif Dolma

PARALLEL SESSION - IPS 1.2	HALL: ISTIKLAL 6
Date: Friday, May 22, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Hüseyin Emre Kankaya	Presentation Format: IN-PERSON
556 - Ağ Trafiği Anomali Tespitinde MLOps Tabanlı Makine Öğrenmesi Yaklaşımlarının Karşılaştırmalı Analizi	<b>Yunus Emre Demirdağ</b> , Betül Ay
259 - RepoWise: A Hybrid RAG-Based Conversational System for Software Repository Analysis	Mehmet Oğuz Kocadere, <b>Yusuf Emir Cömert</b> , Sudanaz Yazıcı, Şamil Giray Karaçay, İbrahim Baran Yıldız, Tuğba Gürgen Erdoğan
332 - Design of a Via-Loaded Interdigital Microstrip Bandpass Filter for S-Band Applications	<b>Emirhan Gözel</b> , Cemre Bengisu Şar, İrem Atalay, Emirhan Sağ, Sultan Can
387 - Investigating Performance of Voting Ensemble Model on Bearing Fault Classification	<b>Ezgi Orhan</b> , Ahmet Sinan Oktem
408 - Look Where You Want to Go: A Gaze-Driven Semi-Autonomous Personal Transportation System	<b>Cihat Ünver</b> , Emre Can Contarlı, Volkan Sezer
349 - Experimental Validation of a Modular Low-Voltage Battery Management System with Model-Based Architecture	<b>Yiğit Burak VAROL</b> , Fikret ÇALIŞKAN
380 - A Centralized Heuristic for Energy Balancing in Wireless Sensor Networks	<b>Hüseyin Emre Kankaya</b>

PARALLEL SESSION - VS 5.1	ROOM 1
Date: Friday, May 22, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
177 - Multimodal Product Unification for Large-Scale E-Commerce Catalogs	<b>Uğur Berk Şahin</b> , Harun Türkmen, Mehmet Serhan Çiftlikçi, İbrahim Utku Arık, Ufuk Uyan, Tolga Ahmet Kalaycı, Tuna Çakar
56 - Automatic Discovery of Security Vulnerabilities in Substation Network Assets via Static Mining and Multi-Field Test Case	<b>Wen Zhou</b> , Biqiao Wu, Yang Li, Juan Lei, Lingyun Wan
588 - Hybrid ECG Arrhythmia Classification Using Fuzzy C-Means Enhanced Feature Fusion and Machine Learning	<b>Sema Yıldırım</b> , İbrahim Arslanoğlu, Cem Haydaroğlu
180 - Matching Ride Requests and Drivers with Route-Corridor-Based Filtering of Driver Intent and Multi-Criteria Real-Time Scoring	<b>Engin Tanrıku</b> , Akın Kırıcı, Mustafa Ünlü, Emir Esmerdağ, Emre Gerçek, TUNA ÇAKAR
181 - Pre-authorized and asynchronous Payment in Urban Taxi Mobility Apps: Reducing End-of-Trip Friction with an Event-Driven Microservices Architecture and Impact Analysis Using Production Data	<b>Engin Tanrıku</b> , Akın Kırıcı, Emir Esmerdağ, Mustafa Ünlü, Emre Gerçek, TUNA ÇAKAR
491 - SpectraTest: Prompt Engineering-Based REST API Test Generation	<b>Süleyman Sercem Gülmez</b> , Emel Koç
342 - Evaluation of Multi-Modal Object Detection and Fusion Strategies for Automatic Train Operation	<b>Fırat Bozkaya</b> , Tankut Acarman

PARALLEL SESSION - VS 5.2	ROOM 2
Date: Friday, May 22, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
445 - Comparative Analysis of 65-nm NMOS, PMOS, and CMOS Inverter Performance Using Foundry and Predictive Technology Models	<b>Betim Hoxha</b> , Katya Asparuhova, Milaim Zabeli
451 - Exploring the Synergy between AI and 5G Technology in Promoting the Innovation of Industrial Energy Infrastructure	<b>Xiu Li</b> , Pikunthong Nukthamna, Zhixuan Yang, Yingyu Wang, Yinglu Liu
282 - AI-Enabled Lost and Found System with Adaptive Retrieval and Intelligent Security Monitoring	<b>Minuk Weerakoon</b> , Kumesha Wijesundara, Kavisha Wickramasinghe, Nethmi Thambawita, Dinuka Wijendra, Jenny Krishara
149 - Information Sufficiency Limits in Metaheuristic-Based IIR System Identification Under Multi-Level Observation Reduction	<b>Ridvan Fırat Cinar</b> , Burcu Bektas Gunes, Cebrail Turkeri, Serdar Ekinci
485 - An Agentic AI-Driven Adaptive Intelligent Tutoring System Using Reinforcement Learning, Emotion-Aware Vision, and RAG-Based Content Generation	<b>Takeshi Dilshan</b> , Sachini Kaushalya, Dileka Gunawardena, Anjana Kurupparachchi, Jeewaka Perera, Kalpani Manathunga
150 - Design of a 2-DOF PID Controller for Magnetic Levitation Systems Using Kirchhoff's Law Algorithm	Cebrail Turkeri, Burcu Bektas Gunes, <b>Ridvan Fırat Cinar</b> , Serdar Ekinci
526 - SkewSense: ML-Driven Partition Optimization for Distributed Systems	<b>Şeyma Nur Altuntaş</b> , Muhammet Baykara

PARALLEL SESSION - IPS 2.1	HALL: ISTIKLAL 5
Date: Friday, May 22, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Gökçe Nur Yılmaz	Presentation Format: IN-PERSON
476 - Field Oriented Control of Outer Rotor Permanent Magnet Synchronous Motor Using Co-Simulation	<b>BUSRA CELIK</b> , TOLGAY KARA, ROBERTO QUÍNTAL PALOMO
559 - AI-Driven Brain Signal Analysis for Early Detection and Diagnosis of Neurological Disorders	<b>Ediz Arkin Kobak</b> , Ozgur Imer, Ali Berat Akoglu, Yagmur Dagdemir, Bahar Karadas, Sude Rudar, Kubranur Danisan, Serhat Uzunbayir
104 - Spatiotemporal Analysis and Incident Severity Forecasting: Unveiling Traffic Patterns in Metropolitan Izmir	<b>Efe Korhan Uz</b> , Hüseyin Atacan Akgün, Hüseyin Yontar, Alper Demir
218 - Hierarchical Hybrid Transformer for Image Super-Resolution	<b>Bora BAŞARAN</b> , Deniz POLAT, Gökçe NUR YILMAZ, Ali BERKOL
217 - Overcoming Compression Artifacts in Oral Malignancy Detection via Deep Restoration and Ensemble Learning	<b>Bora BAŞARAN</b> , Deniz POLAT, Gökçe NUR YILMAZ
333 - Design of a High-Selectivity Quasi-Elliptic Hairpin Bandpass Filter with DMS and Mitered Bends	<b>İrem Atalay</b> , Cemre Bengisu Şar, Emirhan Gözel, Emirhan Sağ, Sultan Can
431 - A Comparative Evaluation of Regulatory Instruments for the Protection of Health Data under GDPR, HIPAA and KVKK	<b>Nazlıcan İren</b> , Erdal Irmak

PARALLEL SESSION - IPS 2.2	HALL: ISTIKLAL 6
Date: Friday, May 22, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Nuraini Jamil	Presentation Format: IN-PERSON
573 - Spatio-Temporal Machine Learning Framework for Dengue Incidence Rate Forecasting Using National Health Surveillance Data	<b>Anastasia Mia Martalia</b> , Saiful Akbar
553 - IoMT-Based Continuous Glucose Monitoring: Integrated Decision Support Framework	<b>Ayat Amer</b> , Ahmed N. Rashid
206 - Designing and Evaluating Voice-Based Interaction for Human-Drone Collaboration	<b>Dimosthenis Minas</b> , Ahmed Lallal, Michalis Xenos, Mehammed Daoui
414 - Design and Development of a Drone-Based Autonomous Seed Dispensing Mechanism for Precision Reforestation	Selim Halabi, Albaraa Alatar, <b>Joseph Shaban</b> , Yeşim Öniz
454 - SVGP-Enhanced ADRC with Residual Learning for Nonlinear Systems	Muhammad Umer Khan, <b>Amir Nobahar</b>
86 - A Comprehensive Analysis of Hallucinations in Large Language Models	Nour Al Dakkak, Mohamed AlKhozendar, Ahmet Tuğrul Bayrak
15 - Towards a Conversational Robot for Enhancing Patient Experience in Hospital Waiting Area	<b>Nuraini Jamil</b> , Sara Hamad Alaryani, Nada Khalifa Alkaabi, Abdelkader Nasreddine Belkacem

PARALLEL SESSION - VS 6.1	ROOM 1
Date: Friday, May 22, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
358 - Behavioural Traits in LLM Group Deliberation: An Opinion-Dynamics Study	<b>Ercan Ezin</b> , Yasin İnağ
153 - Optimizing Sustainable Water Management and Renewable Energy Generation Through Floating Photovoltaics and Artificial Intelligence	<b>Mustafa Falih</b> , Oguz Karan
369 - Interference-Aware Complex Phasor Message Passing Network for Joint Beamforming Optimization in Multi-User IRS-Assisted 6G Systems	<b>Mustafa Ihsan Mustafa</b> , Osman Nuri Ucan
575 - Flood Prediction Framework Using an Ensemble Machine Learning Algorithm	<b>Douglas Kilyobas Titus</b> , Benson Yusuf Baha, Daniel Godwin
449 - Leveraging Harmonic Analysis for Feature Extraction and Selection in Time-Series Data Processing	<b>Yong Wang</b> , Xiaowen Chen
535 - AI Agent Orchestrated Phishing Detection Using Natural Language Processing and Machine Learning	<b>Tolga Üner</b> , Gökhan Dalkılıç
302 - Cryptocurrency Wallet Key Management Using Secret Sharing	Doğa Ece Koca, Burak Kiyak, <b>Hakan Dalkılıç</b>

<b>PARALLEL SESSION - VS 6.2</b>	<b>ROOM 2</b>
<b>Date: Friday, May 22, 2026</b>	<b>Time (GMT+3): 11:00 AM - 12:30 PM</b>
<b>Chair: Muhammed Çelik</b>	<b>Presentation Format: VIRTUAL</b>
112 - One Text, Five Years, Multiple Systems: A Longitudinal Case Study of French–Czech Machine Translation (2020–2025)	<b>Kateřina Motalík Hodková</b>
115 - From Post-Hoc Regulation to Runtime Governance: Ethics and Explainability in AI-Driven Education	<b>Mirka Saarela, Prashanth Shenoy</b>
142 - Functional Stability of Cyber technological Processes Using Controllability of Discrete Systems	<b>Oleksandr Laptiev, Volodymyr Pichkur, Andrii Sobchuk, Serhii Laptiev, Serhii Holdobin, Yuriy Grytsuk</b>
183 - Evaluating AI in Education: Balancing Fairness, Explainability, and Performance	<b>Sachini Gunasekara, Mirka Saarela</b>
577 - Interactive Sign Language Learning System with Multimodal Emotion and Interaction Recognition Analysis	<b>S N Rupasinghe, P A D K Lakshman, K S Dilumina, K M Mahoshadhi, Samantha E R Siriwardana, Ishara Weerathunga</b>
428 - A Three-Phase AI Framework for Distributed Database Optimization	<b>Shatha Abdulkhaleq, Hayri Sever</b>
41 - MATLAB-Based Analytical Modeling of the 5G NR Resource Grid Incorporating PDSCH, PDCCH, and CSI-RS	<b>Kadhim Hassan Kaïttan, Nabeel Jabal Abed, Laith Ali Abdul Rahaim, Zaid Saadi Hussein</b>
<b>INVITED TALK SESSION</b>	<b>ROOM 2</b>
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 01:30 PM - 02:00 PM</b>
<b>Chair: Muhammed Çelik</b>	<b>Presentation Format: VIRTUAL</b>
Invited Talk Dr. Korhan Cengiz	
<b>PARALLEL SESSION - IPS 3.1</b>	<b>HALL: ISTIKLAL 5</b>
<b>Date: Friday, May 22, 2026</b>	<b>Time (GMT+3): 02:00 PM - 03:30 PM</b>
<b>Chair: Kamran Dawood</b>	<b>Presentation Format: IN-PERSON</b>
410 - Transfer Matrix Method Based Electromagnetic Simulation Software for Analysis and Design of Radomes and Radar Absorbing Materials	<b>Ada Akten, Taylan Ünver, Fahrettin Tural, Sultan Can</b>
379 - Temporal and Spatial Dynamics of Public Transit in Istanbul: A Data-Driven Analysis of Passenger Demand Patterns	<b>Ediz Arkin Kobak, Mert Koęuş, Beyazıt Tur, Alper Demir</b>
516 - Detecting Smart Contract Vulnerabilities with Explainable AI	<b>Mohammed Usman Tahir, Alperen Örsdemir, Usman Khalid, Alptekin Kıpçü</b>
312 - Techno-Economic and Physical Impact of Winding Material Selection in Transformers: A Regulatory Comparison between TEDAŞ and Tier 2 Specifications	<b>Kamran Dawood, Muhammed Alperen Çakir, Semih Tursun</b>
478 - Transformer Core Material Assessment: A Comparison of Tier 2 European Standard and TEDAŞ Turkish Specifications on H0 and M4 Steels	<b>Kamran Dawood, Furkan Gezer, Semih Tursun</b>
501 - A REAL-TIME MULTI-SENSOR FUSION FRAMEWORK FOR UAV THREAT ASSESSMENT	<b>Petek ŞENER, Gül ERTEN, Ahmet Gökhan GÖZE, Melih Can HAMURCU, Çaęlar AKMAN, Mehmet KILIÇARSLAN</b>
<b>PARALLEL SESSION - IPS 3.2</b>	<b>HALL: ISTIKLAL 6</b>
<b>Date: Friday, May 22, 2026</b>	<b>Time (GMT+3): 02:00 PM - 03:30 PM</b>
<b>Chair: S. Mert Özer</b>	<b>Presentation Format: IN-PERSON</b>
241 - An Empirical Comparison of Traditional ML and GPT-Based LLMs for Turkish E-Commerce Review Moderation	<b>Muhammed Abdullah Özdemir, Melih Rıza Koç, Mustafa Buęra Yılmaz, Mehmet Ali Ekmiş, Bilal Ekinci</b>
121 - On the Fundamental Limitations of Neural Networks for Statistical Randomness Testing: A Negative Result	<b>Oęuzhan Durmuş, Gökhan Dalkılıç</b>
466 - Delay-Aware Control of a Gyroscopic Stabilization System by Optimization: Spectral Analysis and Experimental Validation	<b>Emin Sakallıoęlu, S. Mert Özer</b>
39 - Carbon-Aware Digital Twin Scheduling for Resilient Supply Chains: An Integrated Reinforcement Learning and Large Language Model Approach	<b>Hüseyin ÜNÖZKAN, Hüseyin Ali SARIKAYA</b>
45 - Visual and Structural Prompt Injection in Medical RAG Systems: A Comparative Robustness Analysis	<b>SONGÜL ERDEM GÜLER, MUHAMMED ALİ AYDIN</b>

PARALLEL SESSION - VS 7.1	ROOM 1
Date: Friday, May 22, 2026	Time (GMT+3): 02:00 PM - 03:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
394 - A Real-Time Smart Bus Passenger Analysis Platform for Revenue Protection and Safety Optimization in Sri Lanka	<b>Sandev Jayaweera</b> , Nandun Perera, Jaladhi Samarakoon, Sanduni Nimasha
450 - A Conceptual Framework for an Intelligent Generative System for Spatial Design Based on Affective Computing and Design Thinking	<b>Zhenchuan Liu</b> , Tingting Zhao
267 - A Multi-Level OLAP Architecture for Open and Shared Highway Scientific Big Data Analytics	<b>Taojie Wang</b>
486 - Hemora: Multi-modal Deep Learning Approach for Automated Hematological Disease Detection	<b>Senura Aluthge</b> , Oshan Disanayake, Sayuri Sachinthanee, Nisitha Dassanayake
557 - SenseAI : A Hybrid, Age-Stratified Cognitive Flexibility and Auditory Response Screening System for Early Autism Risk Detection	<b>Samindi Sankalpani</b> , Sandeepa Karunathilaka, Hasini Ilanganthilake, Geethika Senawirathna, Samanthi Siriwardana , Mihiri Samaraweera
490 - Multilingual Speech Emotion Recognition with Self-Supervised Representations and Prototypical Networks	<b>Kseniia Kholodkovskaia</b> , Cengiz Tepe

PARALLEL SESSION - VS 7.2	ROOM 2
Date: Friday, May 22, 2026	Time (GMT+3): 02:00 PM - 03:30 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
593 - ROS-Controlled Mobile Manipulation System for Educational and Research Applications: Architecture and Simulation Validation with the myAGV 2023 Platform	Vladimir Hristov, <b>Antonia De Amorim</b> , Krishan Kumar
583 - An Ensemble Machine Learning Framework for Real-Time Procrastination Pattern Detection in Academic Desktop Environments	<b>Vilochana A.G.B.</b> , Jayasinghe N.P, Amaratunge A., Jayasundara S.M.A.V , Kalpani Manathunga , Aruni Premarathne
591 - Hybrid PLC-Decentralized Control for Adaptive Load Balancing in Multi-Conveyor Systems: An Experimental Study	Vladimir Hristov, <b>Ivan Chekurov</b> , Ivan Shopov
399 - A Hybrid Deep Neural Network for DDoS Attacks Detection In IoT Networks	<b>Salwan Naeem</b> Thjeel, Hayri Sever
436 - An Integrated Machine Learning and Clinical Analysis System for Kidney Disease Prediction and Management	<b>Sithija Ranathunga</b> , Harsha Shehani, Nirasha Roshali, Ashini Madinu
205 - Artificial Intelligence-Based Shoreline Monitoring and Hatchling Behavioral Analysis for Sea Turtle Conservation	<b>Sithumini Palamure</b> , Geethmani Mirahawaththa, Jenny Krishara, Karthiga Rajendran, Samitha Vidhanaarachchi
386 - The Influence of Higher Harmonics on the Accuracy of Power Measurement and the Security of Computer and Radio Systems	Volodymyr Kot, Valerii Kozlovskiy, Volodymyr Stadnik, Tetiana Milevska, Diana Kozlovska, <b>Ruslan Vegiiev</b>

PARALLEL SESSION - VS 8.1	ROOM 1
Date: Friday, May 22, 2026	Time (GMT+3): 04:00 PM - 07:00 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
447 - Deployment-Aware Benchmarking of Lightweight Machine Learning for IoT-Based Smart Grid Fault Detection: A Comparative Study Across Easy, Noisy, and Public Evaluation Settings	<b>Mohammed Yasser Hussein</b> , Salah Awad Salman, Mohammed Rabeea Hashim
402 - NEXUS: A Microservice-Based Network Emulation Platform with Topology Isolation, Flow-Based Analytics, and AI-Driven Control	<b>Ege Berk Uslu</b> , Orhan Dagdeviren
151 - Evaluation of Synthetic Images Generated for Traditional Residential Architecture Using Few-Shot Approach	<b>Ayse Berika Varol Malkocoglu</b> , Didem Baran Ergül
540 - Headphone with Safety System that Warn Pedestrians of Imminent Dangers	Merve YILDIZ, <b>Ceyhan YILMAZ</b>
528 - Optimization of Surplus Energy in a Nanogrid-based Virtual Power Plant: A Seasonal Case Study	<b>Cihan Ayhanci</b> , Bedri Kekezoğlu, Ali Durusu
344 - Inductor-Based Active Cell Balancing Strategy for Electric Vehicle Battery Management Systems	<b>Erdinç Aslan</b> , Ozan Yazar, Serdar Coskun, Fengqi Zhang
574 - Hybrid Deep Learning Models for Solar Energy Production Forecasting: Explainable Artificial Intelligence Approach	Faruk Kirmizizambak, <b>Emre Bicek</b>
268 - Low Temperature RF Switches Based on Superconducting Fano Devices	<b>Yiling Zhang</b>
235 - A Steganographic Container Selection Method with Negligible Computational Complexity	<b>Ivan Bobok</b> , Svitlana Hryhorenko, Alla Kobozieva
459 - Evidence-First Retrieval Augmented Generation with Claim Repair for Security Operations Center Workflows	<b>Mehmet Anıl Taysi</b> , Rabia Eda Yılmaz, Hıdır Bozkurt, Ayşe İrem Özmen, Gökhan İnce
285 - Towards Realistic SoC Estimation Using Real-World Electric Vehicle Data	<b>Mehmet Küçük</b> , Uzay Gezer, Ozan Yazar, Serdar Coskun, Fengqi Zhang
146 - Attack Potential-Based Cybersecurity Risk Assessment of AV Sensing Systems	<b>Ferhat AGAC</b> , Arif Basgumus, Mustafa Namdar, Gunes YILMAZ
PARALLEL SESSION - VS 8.2	ROOM 2
Date: Friday, May 22, 2026	Time (GMT+3): 04:00 PM - 07:00 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
489 - Artificial Immune Systems Approach for Attractor Reconstruction of Chaotic Maps under Periodicity and Quasiperiodicity Regimes	Akemi Galvez, Suash Deb, <b>Andres Iglesias</b>
303 - Smart Solar Advisor: AI-Driven IoT-Based System for Location-Aware Monthly Energy Forecasting	<b>Chamika Dilshan</b> , Limasha Madusarani, Vihanga Upamal, Malmi Nadee, Thilini Jayalath, Nushkan Nismi
331 - Drift-Resilient Indoor 3D Mapping in GPS-Denied Environments Using RKO-LIO with Velodyne–Pixhawk Integration in ROS 2	<b>Aysegul Ucar</b> , Anas Mahyoub Naji Saeed Alqadhi, Mohammed Ali Mohammed S. Bajhaw, Munef El Muhammed
552 - Concept of cyber threat assessment of critical infrastructure facilities	Oleksandr Novoseletskyi, Olena Voloshchuk, Dmytro Yevseiev, Andrii Cherniavskiy, Oleh Tovma, <b>Daniil Viukhin</b>
555 - Smart Solar Angle Optimizer with ML Forecasting and IoT Synchronization	<b>Dewhara Abeysinghe</b> , Priyanka Prabashwara, Hasara Samarawickrama, Sithmi Himanshi, Dharshana Kasthurirathna, Nuwan Kodagoda
288 - Retrieval-Augmented Generation for Technical Intelligence in Aerospace and Defense Systems	<b>Fehmi Yener</b> , Merve Duman, Gokhan Bakal
339 - Random ReLU-Based Support Vector Machine Classifier for Frequency-Domain Data	<b>Binura Perera</b> , Ashane Fernando, Pasan Edirisinghe, Hasitha Premasiri
584 - Real-Time DDoS Detection for SDN with Stacking Ensembles in OMNeT++	Ömer Dakkak, <b>Boushra Alnaima</b>
147 - Dual-Channel LLM-Guided Semantic Feature Extraction with Zero-Shot Classification for Zero-Day Malware Detection	<b>Ahmed Essaa AlOwaidi</b> , Galip Cansever
562 - Justification of proposals for detecting data transmission channels of low-observable unmanned aerial vehicles	Serhii Herasymov, Oleg Cherniavskiy, Orest Sinyavsky, Iryna Aksonova, Oleksandr Kruchinin, <b>Miroslav Pohasii</b>
314 - Sinhala Learn: AI-Based Education Assistant for Sinhala Resources	<b>Miyuri Lokuhewage</b> , Oshadi Jayananda, Hasindu Ranaweera, Denuwan Sathsara, Dilshan De Silva, Chamali Pabasara
492 - Shilpa: Inclusive Mobile Learning App for Visual, Auditory, Physically, and Cognitive Impaired Students	<b>Gimashi Ishara</b> , Chamindu Wijesooriya, Ravindu Perera, Sarindu Mathota, Nuwan Kodagoda, Jenny Krishara
22 - Deep Neural Networks for Maximum Power Point Tracking in Photovoltaic Systems: A Review	<b>Waleed Hameed</b> , Samuel Nii Tackie, Cemal Kavalcioglu, Kamil Dimililer

PARALLEL SESSION - VS 8.3	ROOM 3
Date: Friday, May 22, 2026	Time (GMT+3): 04:00 PM - 07:00 PM
Chair: Safa Enes Turkoglu	Presentation Format: VIRTUAL
221 - A Component-Based Architecture for User Interface Consistency in Retail POS Systems: The Shift UI Approach	Vedat Nommaz, Yaren Ulusoy, Oğün Gezer, Engin Durmaz, <b>Ceren Ulus</b> , M. Fatih Akay
71 - Schizophrenia Diagnosis from Resting-State fMRI Using a Hybrid Machine Learning Approach Based on Functional Connectivity Patterns	<b>Dilara Büker</b> , Gökalp Çınarer
546 - Revenue Management and Operational Efficiency in Aviation Enterprises: A Categorical Analysis of Contemporary Literature (2023-2026)	PIRIL TEKİN, <b>FATMA ŞEYMA YÜKSEL</b>
179 - A Real-Time Product Usage and Smart Reporting Platform Based on XGBoost and Transformer Models	<b>Eriñç Samim Merdivenci</b> , Besna Ruken Tarhan, Damla Doğru Babacan, TUNA ÇAKAR
9 - Cross-Lingual Performance Evaluation of Requirements Classification: Functional vs. Non-Functional in Turkish and English	<b>Serhat Uzunbayir</b> , Senem Kumova Metin
464 - Evaluating Part-Aware Cascade and End-to-End Models for Vehicle Damage Segmentation	<b>Nimet Karagöz Gökçen</b> , İbrahim Halil Demircioğlu, Gönül Beril Aksu, C.Okan Sakar, Yunus Karaman
317 - Cephalic Adaptive Smart Digital Displays	<b>Omsai Baswaraj Bulla</b> , Sameeksha Dadmi, Sanjana H B, Athmica Kishore K, Nitin V. Pujari
215 - Evaluating User Experience (UX) of AI-Powered Translation Tools in Professional Interpreting Environments	<b>Mohammed H. Alaçad</b> , Ali Sorayyaei Azar, Hani Alhasani, Mohammad Ali Al-Saggaf, Mahamatayuding Samah
347 - Benchmarking AI-Generated Text Detection Tools in Academic Writing: An Experimental Evaluation	<b>Mohammed H. Alaçad</b> , Ghadeir Alkindi, Mohamad Hussin, Ahmad Arifin Bin Sapar, Lama Anwar Alaggad
560 - Open Innovation for Pet Care: Design of Smart Wearable Jacket for Poodle Dogs	Deniz Cengiz, <b>Alper Doruk Yıldız</b> , Ali İhsan Sarı, Atajan Rovshenov
72 - Validation Strategy Effects on Data Leakage for EEG-Based Drowsiness Detection	<b>Gamze AKSOY</b> , Ümit BUDAK, Musa ÇIBUK
178 - Panama Feature-Store Ensuring Offline–Online Consistency with a YAML-Based Contract Language in MLOps	<b>Öykü Zeynep Aslan</b> , Alperen Kan, Gizem Kılıñ Aydın, Murat Özcan, Meltem Sanisoğlu, TUNA ÇAKAR
565 - Electroporation Parameters Based Survival Rate Prediction for Bile Duct Cancer: A Comparative Artificial Intelligence Study	<b>Tugce Binen</b> , Muhammet Üsame Öziç, Sevilay Cetin

Tutorial Session	HALL: ISTIKLAL 5
Date: Saturday, May 23, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Murat Karakuş	Presentation Format: IN-PERSON
<b>Explainable, Interpretable &amp; Trustworthy AI for Next-Generation Network Autonomy</b>	
1) Introduction (10-minute - Murat Karakus)	
2) Background on AI/ML for Network Operations (15- minute - Murat Karakus)	
3) Foundations of XAI (20-minute - Murat Karakus)	
4) Core XAI Methods - Part I (20-minute - Fatih Bildirici)	
5) Core XAI Methods - Part II (25-minute - Fatih Bildirici)	

PARALLEL SESSION - IPS 4.1	HALL: ISTIKLAL 6
Date: Saturday, May 23, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Asli Beyza Ciftpinar	Presentation Format: IN-PERSON
434 - Hierarchical Framework for Tooth Enumeration, Segmentation and Disease Identification in Panoramic Radiographs	Ali Han Özdoğan, Selcan Kaplan Berkaya
413 - Creating a Generative AI Chatbot for University Student Regulations	Asli Beyza Ciftpinar, Fatih Cavdur
359 - A Blockchain Attestation Layer for Zero Trust Network Access	CAGATAY KORKUC, TUNCAY DOGANTUNA, YASIN GENC, ERKAN AFACAN, MURAT DENER
365 - Adaptive Formation Control For Collaborative Swarm Robots	Emir Bekar, Berkay Vatansever, Serra Irmak Uysal, Omer Yigit, Suleyman Efe Ceylan, Yeşim Öviz
443 - Fake News Detection Capability Across Contemporary LLMs: Comparative study of zero-shot, few-shot, and parameter-efficient fine-tuning across LIAR and ISOT	Emre Karacakurt, Ecem Sıla Gök, Eren Ulu

PARALLEL SESSION - VS 9.1	ROOM 1
Date: Saturday, May 23, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
81 - A Metaheuristic Optimization Framework for Task Allocation in V2X Enabled Autonomous Vehicle Swarms	Ali Berkol, İdil Gökçe Demirtaş
82 - Hierarchical Explainability in Multi-Layer Avionic AI Architectures	Ali Berkol
167 - EFECE: An Explainable Feature-based Evaluation and Comparative Explanation Framework for Large Language Models	Ertürk Erdağı
289 - An Approach to Social Navigation Algorithm of an Autonomous Robot	Merve Arıturk Turen, Sirma Yavuz
233 - A Consensus-Driven Information Extraction Method via Voting and Pruning over LLM Chatbot Outputs for a Novel Agricultural Dataset	Esat Fazlullah Çelik, Aybars Uğur
260 - Prisma Guided Systematic Review of Internet of Senses Applications in Security	Mehmet Eren Karabulut, Orhan Dagdeviren
165 - Impact of Spatial Diversity on Hybrid DWDM-FSO System under Adverse Weather Conditions	Mehmethan Gundogdu, Firat Ertac Durak, Arif Basgumus, Mustafa Namdar

PARALLEL SESSION - VS 9.2	ROOM 2
Date: Saturday, May 23, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
280 - An AI-Driven Framework for Sea Turtle Nesting Detection and Coastal Threat Assessment	Dilshan Kavinda, Migara Denuwan, Jenny Krishara, Karthiga Rajendran, Samitha Vidhanaarachchi
116 - Comparative Analysis of Structural Features in Genuine and Fraudulent Listings on C2C Platforms	Farid Huseynov, BUSRA OZDENIZCI KOSE, Serhat ERAT, Mustafa Kemal MAYUK
117 - An NLP-Based Analysis of Genuine and Fraudulent Listing Descriptions on C2C Platforms	Farid Huseynov, BUSRA OZDENIZCI KOSE, Serhat ERAT, Mustafa Kemal MAYUK
384 - AI-aided language didactics: possible challenges in developing a WebApp for language assessment for Greek learners of Chinese	Konstantinos Polymeros , Nikolaos Zygouris , Nikolaos Tziritas , Antonios Dadaliaris
14 - Forecasting Agentic AI Resource Consumption in Business Processes: A Three Dimensions Cost Estimation Conceptual Framework	Ioannis Patias
69 - A multi-layer responsible AI scorecard for evaluating conversational agents	Ioannis Patias, Rositsa Fakalieva
35 - OptiSwarm: A Novel Topological Hybrid Architecture in Swarm Robotics	Hüseyin Enes Okutan, MUHAMMET BAYKARA, Derya Avcı

<b>Tutorial Session</b>	<b>HALL: ISTIKLAL 5</b>
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 11:00 AM - 12:30 PM</b>
<b>Chair: Murat Karakuş</b>	<b>Presentation Format: IN-PERSON</b>
<b>Explainable, Interpretable &amp; Trustworthy AI for Next-Generation Network Autonomy</b>	
6) XAI Applications in Network Operations (25-minute- Rukiye Savran Kızıltepe)	
7) XAI Use Cases and Hands-On Demonstrations (30-minute - Berkay Bayramoglu)	
8) Future Directions and Research Challenges (15-minute - Rukiye Savran Kızıltepe)	
9) Conclusions - Q&A (10-minute - All)	

<b>PARALLEL SESSION - IPS 5.1</b>	<b>HALL: ISTIKLAL 6</b>
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 11:00 AM - 12:30 PM</b>
<b>Chair: Souleyman Doutoum Assad</b>	<b>Presentation Format: IN-PERSON</b>
105 - Voice or Text? A Qualitative Examination of Communication Modality in Conversational Agents	<b>Mohammad Amin Kuhail</b> , Saifeddin Alimamy, Joao Negreiros
118 - Collaborating with AI in Programming Education: A Qualitative Study of Student Experiences with a Chatbot-Supported Learning Environment	<b>Mohammad Amin Kuhail</b> , Ahmed Shuhaiber, Sinan Salman, Nazik Alturki
345 - Generalizable and Interpretable Ensemble Framework for Classification of Bacterial and Viral Infections Using 41-Gene Host RNA Signature	<b>Yusuf Sercan Tünk</b> , Feriştah Dalkılıç
135 - BB-API: A Secure and Transparent Blockchain-Based Model for Enterprise API Key Management	<b>TUNCAY DOGANTUNA</b> , CAGATAY KORKUC, YASIN GENC, MURAT DENER, ERKAN AFACAN
19 - Brain Tumor Diseases Classification and Detection using Deep Learning Approach	<b>Souleyman Doutoum Assad</b>
442 - Facial Emotion Detection Using Pre-Trained CNN Models: A Study on Fine-Tuning and Robustness in Real-Time Settings	<b>Rovshana Haji-Hasanli</b> , Eren Ulu

<b>PARALLEL SESSION - VS 10.1</b>	<b>ROOM 1</b>
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 11:00 AM - 12:30 PM</b>
<b>Chair: Ebubekir Yasar</b>	<b>Presentation Format: VIRTUAL</b>
83 - Toward Autonomous Design with AI-Native Systems Engineering	<b>Ali Berkol</b> , İdil Gökçe Demirtaş
137 - Implementation of main steganographic visual protection methods of documents based on the Cartesian coordinates use of residual printing artefacts in the C++ languages	<b>Oleksandr Sitchenko</b> , Pierre Murr, Serhii Pohasii, Olha Korol, Mykola Tarasenko, Hlib Khivrenko
136 - Classification of Cyber Threats and Development of a Method for Adaptive Protection of the Infrastructure of Modern Banking Systems	<b>Oleksandr Umanskiy</b> , Yelyzaveta Sevriukova, Dmytro Yevseiev, Voropay Natalia, Vladyslav Denysiuk, Kyrylo Petrenko
435 - Comparative Evaluation of Machine Learning Models for S11 Prediction in Microstrip Patch Antennas	Yüksel TOKUR BOZKURT, Burak DOĞAN, Medine Begüm GÜZELTAŞ, <b>Ömer Faruk AÇIKGÖZ</b>
18 - Censoring-Aware Partially Linear Modeling of Human–Robot Task Completion Times	<b>Ersin Yılmaz</b>
287 - Label-Efficient White Blood Cell Classification via Knowledge Distillation on a Large-Scale Peripheral Smear Dataset	<b>Osman Furkan Karakuş</b> , Ali Can Karaca, Hamza Osman Ilhan
376 - Machine Learning-Based Optimization of Product Loading in Airline In-Flight Sales	<b>Serkan Kocoglu</b> , Zuleyha Akusta Dagdeviren

PARALLEL SESSION - VS 10.2	ROOM 2
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 11:00 AM - 12:30 PM</b>
<b>Chair: Muhammed Çelik</b>	<b>Presentation Format: VIRTUAL</b>
506 - PulseTrack AI: A Predictive Multi-Layer Decision Framework for Edge-Based Boundary Intrusion Verification Under Uncertainty	<b>Thisal Deelaka</b> , Malisha Sandeep, Matheesha Jayasundara, Arunalu Bamunusinghe
36 - Fingerprinting-based localization for automated guided vehicles	<b>Tuğba Kara</b> , Ahmet Gökçen
395 - A Graph-Based Article Recommendation System with Multilayer Citation	<b>Umut Karadurmus</b> , Zuleyha Akusta Dagdeviren
283 - An Integrated AI and IoT-Based Framework for Automated Cement Quality Assessment	Hirumi Weerasooriya, <b>Chamudini Ayodya</b> , Sanchitha Lakshan, Kanchana Korlage, Dinuka Wijendra, Jenny Krishara
521 - Cooperative Secondary Control for Negative-Sequence Voltage Suppression and Optimal Power Sharing in Islanded Microgrids	<b>Rania Hamdi</b> , Firas Tuaimah
522 - Reinforcement Learning-Based Network Slicing for 5G Vehicular Networks in Emergency Traffic Conditions	<b>Wafa Hamdi</b> , Hasan Bulut, Orhan Dagdeviren
536 - GEMEX: Model-Agnostic XAI via Geodesic Entropic Manifold Analysis	<b>Utku Kose</b>

SPECIAL SESSION - EXIT-ANA 2026	HALL: ISTIKLAL 5
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 01:30 PM - 03:30 PM</b>
<b>Chair: Murat Karakuş</b>	<b>Presentation Format: IN-PERSON</b>
73 - Assessing the Stability of LLM-Generated Explanations in Network Security via Repeated Sampling	Jason Turner, <b>Mehmet Akif Gulum</b> , Mehmed Kantardzic
176 - Explainable Spatio-Temporal Graph Modeling for Network Attack Detection	<b>Mehmet Akif Gulum</b> , Tan Gurpinar, Jason Turner, Ömer Dogan
360 - Ensemble Deep Learning with Explainable AI for Intrusion Detection: A Comparative Study on the UNSW-NB15 Dataset	<b>Samet Yildirimcakar</b> , Murat Osmanoglu
361 - Explainable Machine Learning Framework for Phishing URL Detection with a Realistic Large-Scale Dataset	<b>Elif Ozcelik</b> , Farah Elsilik, Murat Osmanoglu
381 - From Code Synthesis to Security Analysis: Evaluation of Open-Source LLMs on Ethereum Smart Contracts	Sohel Akhtar, Murat Karakus, <b>Rukiye Kiziltepe</b>

PARALLEL SESSION - IPS 6.1	HALL: ISTIKLAL 6
<b>Date: Saturday, May 23, 2026</b>	<b>Time (GMT+3): 01:30 PM - 03:30 PM</b>
<b>Chair: İrem Şimşek</b>	<b>Presentation Format: IN-PERSON</b>
172 - Web-Based Comparative Analysis Framework for Metaheuristic Optimization Algorithms: A Unified Educational Approach	<b>Selin Eryasar</b> , Ali Durmus, Rifat Kurban
274 - Comparative Evaluation of YOLO Architectures for Missile Plume Detection in Solar-Blind Ultraviolet Imaging	<b>Nuray Hanimnaz Karaman</b> , Tugba Selcen Navruz
350 - Multi Agent Reinforcement Learning Based Swarm Navigation	<b>Omer Yigit</b> , Suleyman Efe Ceylan, Seval Selin Palas, Arda Isik, Emir Bekar, Berkay Vatansever, Yeşim Öniz
457 - A Hybrid Residual-CNN-BiLSTM-Attention Model for Lake Water Level Forecasting	<b>Meliha Mutlu</b> , Mete Celik, Meltem Kacikoc, Filiz Dadaser-Celik
145 - A Real World Deployable Deep Learning System For Early Skin Cancer Screening From Skin Images	<b>Mahmut Furkan Bakal</b> , Aysu İrem Adem, Arda Sezen, Naz Dumanoglu
197 - Osteoporosis Risk Classification from Lumbar Spine DXA Images	<b>Amina Khal Murad Mirza</b> , Waleed Abdurrah Hafiz, Aeshah Saeed Rajab, Sultan Ali Albargi, Anday Duru
473 - A Resource-Efficient Hardware Accelerator for LightGlue on Reconfigurable Embedded Devices	<b>Kutluğhan Özkan</b> , Süleyman Tosun
452 - Attention Comparison in Task-Free vs. Task-Driven Viewing: AI vs. Real Images	<b>İrem Şimşek</b> , Eren Ulu
375 - AI Agent-Assisted Lightweight Intrusion Detection for IoT Devices	<b>Doğancan Karakoç</b> , Gökhan Dalkılıç, Mustafa Furkan Ceylan

PARALLEL SESSION - VS 11.1	ROOM 1
Date: Saturday, May 23, 2026	Time (GMT+3): 01:30 PM - 03:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
508 - Empowering Alphonso Mango Export with Global Market Insights	<b>Sewwandi Irugal Bandara</b> , Amasha Gamage, Sathma Pamudi, Meedumi Rashmika, Sanvitha Kasthuriarachchi, Thisara Shyamalee
264 - A Sensor-Driven LED Lighting Optimization Model for Place-Making and Urban Revitalization	<b>Danying Chen</b> , ZuHao Liu
271 - Deep Learning-Based Rainfall–Runoff Modeling for River Basin Water Resource Prediction	<b>Jia Hu</b>
229 - An Adaptive AI-Enhanced Automated Web Security Scanner with Multi-Vector Testing and Vulnerability Chaining	<b>Mohammed Adnan Ahmed Ahmed</b>
154 - Two-Stage Nonlinear Torque Observer-based Robust Backstepping Speed Control for IPMSM Drives	<b>Moustafa Hassanein</b> , Fatih Adigüzel
587 - Smart Agri-Suite_ A Globally Deployable Machine Learning Platform	<b>Eranga Bowatte</b> , Chamindu De Silva, Senudi Rupasinghe, Janakalani Maheepala, Dhammika H. De Silva, Lakmini Abeywardhana
524 - What Makes an LLM Trust Your Source?	<b>Emre Aşkın</b> , Muhammet Baykara
529 - A Lightweight Hardware Accelerator for Fixed-Point Least-Squares Estimation in RISC-V SoCs	<b>Muhammet Emin Akgun</b> , Alp Arslan Bayrakci
446 - Design and Implementation of a PLC-Based Greenhouse Climate Control System	<b>Betim Hoxha</b> , Qamil Kabashi

PARALLEL SESSION - VS 11.2	ROOM 2
Date: Saturday, May 23, 2026	Time (GMT+3): 01:30 PM - 03:30 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
166 - Lightweight Semantic Segmentation for Urban Scenes: Accuracy–Efficiency Trade-off on Cityscapes	Nasim Ahmadzadeh Nobari Azar, <b>Hauwa Wakil Adamu</b> , Zainab Deen
589 - AI Driven Platform for Handwriting Based ADHD Detection for Children	<b>Hima Alahakoon</b> , Sageevan Perinparajah, Isuru Kulatunga, Gihan Liyanage, Lochana Rajamanthri, Swarna Wijethunga
269 - Enhancing Security Performance in Large-Scale UAVs System Based on Mean Field Game Theory	<b>Yuandong Xu</b> , Lan Tang
143 - Methodology for OSINT analysis of geopolitical risks in critical open source infrastructure	Ivan Parkhomenko, Larysa Myrutenko, <b>Yurii Sokyran</b> , Tetiana Laptieva, Denys Matsevych, Andrii Krush
564 - AloeGreen: Smart IOT-Based System For Aloe Vera	<b>Eesara Megasooriya</b> , Himash Rajapaksha , Shehani Samarathunga, Amanda Bandara , Jenny Krishara, Dinuka Wijendra
220 - Comparison of Back Propagation Neural Networks and Gradient Boosting Algorithm in Accuracy using Heart Disease Classification	Kamil Dimililer, <b>Elif Buse Duman</b> , Omid Mirzaei, Priscilla Olawale, Dicle Sayın, Suleyman Asir
550 - Agri-Sense: Autonomous Tomato Farming Robotic Vehicle	Yomal M S, Bandara K M D I, Weerasekara W M G V, <b>Nilesh P</b> , Jayakody J A B C, GAMAGE N D U
257 - Phasor Measurement Unit-Based Synchronization of Photovoltaic and Grid System with Control and Remote Cloud Monitoring	<b>Ahmed Rahi</b> , Hassan Motlak, Riyadh Thahab
182 - Effect of Joint-Specific PD Gain Allocation on Position Tracking Performance in Snake Robots	<b>Ahmet DEMIRCI</b> , Yesim Aysel BAYSAL ASLANHAN

PARALLEL SESSION - VS 11.3	ROOM 3
Date: Saturday, May 23, 2026	Time (GMT+3): 01:30 PM - 03:30 PM
Chair: Safa Enes Turkoglu	Presentation Format: VIRTUAL
411 - Fine-Tuning and Deployment of a Vision-Language-Action Based Robotic Foundation Model for Open-Source Robot Arms	<b>Mücahit Emre Kabaoğlu</b> , Mustafa Hikmet Bilgehan Uçar
480 - Corporate Banking Product Purchase Prediction Across Multiple Horizons Using Multimodal Tabular Features	<b>Berke Gunes</b> , C.Okan Sakar
213 - Hybrid Architecture for the Detection of AI-Generated Synthetic Images	<b>Batuhan Tanrıverdi</b> , Hamza Osman İlhan
79 - A Systematic Robustness Analysis of Context Re-Positioning in Long-Context Language Models	Muhammet Tarık Yılmaz, <b>Yusuf Çakır</b>
20 - FUZZY LINGUISTIC SUMMARIZATION IN THE ELECTRONIC COMMUNICATIONS SECTOR: PROTOFORM-BASED NATURAL LANGUAGE INSIGHTS FOR DIGITALIZATION AND DECISION SUPPORT	<b>Ali Burak Akbulut</b> , Diyar Akay, Ümran Kaya
474 - Kan Hücrelerinin Otomatik Tespit Edilmesinde YOLO Mimarilerinin Performanslarının Karşılaştırılması	<b>Kader ÇEPNİ YAĞIZ</b> , Durmuş Özkan ŞAHİN
599 - SHAP and LIME Enhanced Tsunami Detection with Stacking Based Integration of Advanced Tabular Deep Learning Models	<b>Burçak Asal</b>
527 - Residual Vibration Suppression in a Flexible Beam via Tuned Ramp–Cycloid Motion Profiles: Application on a Stewart Platform	<b>Mustafa Kesik</b> , Mehmet Erkan Kütük, Sadettin Kapucu
370 - Deep Learning Approaches for Tumor-Stroma Classification in Colorectal Cancer Pathology	<b>Aysun Yılmaz Kızılboğa</b> , Hamza Osman İlhan

PARALLEL SESSION - IPS 7.1	HALL: İSTIKLAL 5
Date: Saturday, May 23, 2026	Time (GMT+3): 04:00 PM - 06:00 PM
Chair: Yusuf Garga Bello	Presentation Format: IN-PERSON
256 - Explainable Deep Neural Networks for Heart Disease Prediction in Clinical Decision Support.	<b>Chahyaandida Ishaya</b> , PINAR YILDIRIM, Yusufu Gambo
569 - Explainable Prediction of Daily Stress and Sleep Quality from Passive Smartphone Behavioral Sensing: A SHAP-Based Analysis of the StudentLife Dataset	Jibrailu Daniel, Suleiman Wilson, Ndachimya Magaji Edward , <b>Chahyaandida Ishaya</b> , Zidon Samuel Musa, Vimipwa Augustine , Yusuf Garga Bello, Louis Adamu Obadiah, Douglas Kilyobas Titus
551 - Credit Card Fraud Detection: Addressing Class Imbalance with Machine Learning	<b>Daniel Godwin</b> , Douglas Kilyobas Titus , Ndachimya Magaji Edward , NIBRAS MOHAMMAD ABUBAKAR, Chahyaandida Ishaya
261 - Adaptive Circular Manifold (ACM): A Density-Dependent Geometric Metric for Robust Gradient Descent	Ndachimya Magaji Edward , <b>Jibrailu Daniel</b> , Yohanna Dauda
581 - Bias and Fairness in AI Systems: Theoretical Analysis and Empirical Validation Through Reweighting Mitigation	<b>Louis Adamu Obadiah</b> , Daniel Godwin, Ndachimya Magaji Edward , NIBRAS MOHAMMAD ABUBAKAR, Jibrailu Daniel, Douglas Kilyobas Titus
520 - Optimizing Survivor Detection Models on Thermal Imagery for UAV-Assisted Search and Rescue	<b>Muhammed Besir Acar</b> , Talha Kaba, Abdulkadir Parlak, Ramadan Shemsu Hussien, Ahmet Emre Gokpinar, Selma Dilek, Alperen Cakin
272 - A Neuro-Symbolic Expert System for Medical Diagnosis From Natural Language with Rule-Based Logic Engines	<b>Ndachimya Magaji Edward</b> , Daniel Godwin, Fares Odeh, Aytuğ Sağlam, Moustafa Leila
545 - A Fairness-Aware Constraint Satisfaction Framework for University Exam Timetabling	Jibrailu Daniel, <b>Yusuf Garga Bello</b> , Atakan ONAY, Emin Çağan Apaydın, Mutaz Wael, Sudenur Yanık, Nevşin Nağaç

PARALLEL SESSION - IPS 7.2	HALL: ISTIKLAL 6
Date: Saturday, May 23, 2026	Time (GMT+3): 04:00 PM - 06:00 PM
Chair: Ercan Aykut	Presentation Format: IN-PERSON
543 - A Modular Graph Coloring Abstraction for Register Allocation in LLVM: Design and Evaluation	<b>Enes Abdülhalik</b> , Mehmet Emin Baytekin, Gizem Süngü Terci, Alp Arslan Bayrakci, Alihan Turan
458 - Unified Control: Managing Multiple PLCs through a Single HMI Interface via MODBUS RTU Protocol	Sena Nur Benli, <b>Ercan Aykut</b> , Kübra Erdoğan, M. Cihat Mumcu, İzzet Yavuz
239 - Feynman Explanation Prompting: A Pedagogically Grounded Framework for Large Language Models	<b>Fatih Bildirici</b> , Murat Karakus, Rukiye Kiziltepe
406 - A Learning-Based Fault Detection Approach for Unmanned Aerial Systems Using Inertial Sensor Data	<b>Furkan YUKSEL</b> , Suleyman TOSUN
544 - The RISC-V TEE Landscape: A Survey of Isolation Architectures, Extended Security Mechanisms and Open Research Challenges	<b>Harun Cetin</b> , Ahmet Selman Bozkir

PARALLEL SESSION - VS 12.1	ROOM 1
Date: Saturday, May 23, 2026	Time (GMT+3): 04:00 PM - 06:00 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
55 - AI Monitoring and Optimisation System for Single-Well Production Performance of Onshore Oilfields in Xinjiang	<b>Guangya Li</b> , Jianpeng Cheng, Zhe Zhang
270 - Optimization of Cross-Border E-Commerce Dispute Resolution Using AI-Supported Legal Frameworks	<b>HANBING LI</b> , YICHENG TIAN
456 - CardioRAG: Toward Trustworthy Medical Question Answering through Hypothetical Document and Instruction-Aware Embedding	<b>Sandun Mapalagama</b> , Senash Hettiarachchi, Sajana Waidyarathna, Tharindu Dissanayaka, Nathali Silva, Thamali Dassanyaka
316 - Huruwa: An AI-IoT Robotic System for Adaptive Speech Therapy and Parental Support for SinhalaSpeaking Children with Speech Sound Disorders	<b>Ravindu Iddamalgoda</b> , Divyani Piyathilaka, Dilum Pallebathgala, Harshana Abeyrathne, Samantha Thelijjagoda, Junius Anjana Vidanaralage
250 - A Robust EEGNet-Based Framework with Advanced Preprocessing for Cross-Subject and Cross-Session Motor-Imagery BCI	<b>Bakynam Zakareya</b> , Raouf Fareh, Kheireddine Choutri, Abir Hussain, Maamar Bettayeb
455 - IoT Payments: Bridging The Gap Between Connectivity, Compliance and Commerce	<b>Boris Robev</b> , Ioannis Patias
313 - AI-Powered VR Platform for Interactive Learning and Immersive Exploration of Historical Events	Disara Kahatapitiya, Vinuji Palihakkara, <b>Sajith Fernando</b> , Rashmika Jayarathna, Dinuka Wijendra, Thilini Jayalath
38 - Smart Meter For Controlling Solar Power System End Side- Based Smart PSO-TTHS Algorithms	<b>Zahraa Talib</b> , Laith Ali Abdul Rahaim, Anwer S. Aljuboury
230 - From Pond to Market: A Two-Stage AI Forecasting System for Salt Production Planning in Puttalam, Sri Lanka	Thimesha Ansar, <b>Induwara Sirimanna</b> , <b>Muhammed Arshaq</b> , <b>Randini Perumbuli</b> , <b>Nathali Silva</b> , <b>Thilini Jayalath</b>

PARALLEL SESSION - VS 12.2	ROOM 2
Date: Saturday, May 23, 2026	Time (GMT+3): 04:00 PM - 07:00 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
315 - Neuro Chair A Smart IoT-Based Ergonomic System for Real-Time Stress and Posture Monitoring	<b>Damitha Rajapaksha</b> , Hiruni Rathnayaka, Sandupama Sithumini, Harshana Perera
488 - Real-Time Vehicle Fault Detection Using Acoustic Analysis and Machine Learning	<b>Dinal Adithya</b> , Sasindu Wijesinghe, Panduka Desan, Kavindu Denuwan, Nelum Chathuranga, Kaushika Kahatapitiya
496 - Smart Platform for Construction Analytics, Scheduling, Cost, and Quality	<b>Dineth Vithana</b> , Uvindu Hewage, Bawantha Madushan, Nuwanthi Jayashani, N.H.P. Ravi Supunya Swarnakantha, Chathurya Kumarapperuma
70 - Explainable Deepfake Detection: An Attention-Based Analysis of Cross-Dataset Generalization	<b>Abdel Motalib Lagsoun</b> , Mustapha Oujoura, Mustapha Hedabou, Abdelghafour Atlas, Omar Boudellah, Anass GARBAZ, Mohamed El Ansari, Lahcen Koutti
44 - Graph-Enhanced LLM Architecture for Reliable Data Management: Design Principles and Proof of Concept	Otmane Azeroual, <b>Radka Nacheva</b>
122 - Block-size effects on singular vector alignment for SVD-based steganographic embedding	Yehor Zhuk, <b>Artem Sokolov</b> , Yevhen Holovko, Anton Smirnov, Serhii Isidorov, Oleksandr Melnychuk
424 - AI-Based Accident Detection and Severity Classification System with Passenger Awareness	<b>J. I. Kaluarachchi</b> , K. M. C. Lakshitha, Primal Fernando, K. S. N. Keeragala
123 - Zero-trust conceptual architecture for secure integration of large language models and autonomous AI agents	<b>Oleksandr Kushnerov</b> , Vladyslav Sokol, Olena Akhiezer, Andrii Cherniavskyyi, Oleh Tovma, Daniil Viukhin
468 - Hybrid GAN-RL Architecture for Hardware Trojan Detection in Gate-Level Netlists	<b>Mohamed Ouail Islam Douar</b> , Fatma Nur Esirci, Arzu Kakisim
10 - AI in Health Informatics Through the Eyes of Medical Students	<b>Nikoleta Leventi</b> , Alexandrina Vodenicharova

PARALLEL SESSION - VS 12.3	ROOM 3
Date: Saturday, May 23, 2026	Time (GMT+3): 04:00 PM - 06:00 PM
Chair: Safa Enes Turkoglu	Presentation Format: VIRTUAL
144 - Evaluation Metrics for LLMs: Accuracy, Relevance, and Truthfulness	Göktürk Berke Korkut, <b>Çağrı Efe</b> , Ahmet Tuğrul Bayrak
291 - Transformer-Based Encoders Significantly Improve Remote Sensing Image Captioning: A Systematic Encoder Ablation Study	<b>Enes Dilsiz</b> , Ali Can Karaca
138 - A review of gate-structured recurrent neural network strategies for state-of-charge estimation in lithium-ion batteries	<b>Fatih Eroğlu</b> , Bilal Çatkin
80 - Knowledge Distillation for Large Language Models: A Survey with a Case Study for Human-Robot Interaction and Edge Deployment	<b>Hatice Beril Satıcı</b> , Ahmet Tuğrul Bayrak
579 - System Dependent Performance Analysis of Metaheuristic Algorithms for DOCR Coordination in Distribution Networks and Microgrids	<b>İbrahim Arslanoğlu</b> , İsmail Hakkı Altaş, Heybet Kılıç, Cem Haydaroğlu
494 - AI-Driven Business Intelligence for Fraud Detection A Systematic Literature Review	<b>Ibrahim Yuluce</b> , Fatih Dagdeviren, Murat Orun, Ismail Duran, Orhan Dagdeviren
517 - Developing a Multidimensional Political Proposition Set for Neuroscientific Research	<b>GÖZDE FİLİZ</b> , ESİN TUNA DEMİRCİOĞLU, EVRİM GÖRMÜŞ, HANDE TASA, YASSINE DRIAS, TUNA ÇAKAR
300 - Riemannian Geometry-Based Cross-Subject Motor Imagery EEG Classification via Subject-Adaptive Prototype Selection	<b>Gülşah Demirbaş</b> , Çağatay Murat Yılmaz
258 - MaxilloGAN: Maxillomandibular Mask Generation for Panoramic Dental Radiograph Synthesis	<b>Merter Hami KARACAN</b> , Sait Can YUCEBAS