



8th 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	PARALLEL SESSION - VS 1.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 1.2 Chair: Muhammed Çelik
10:30 AM - 11:00 AM	Coffee Break	
11:00 AM - 12:30 PM	PARALLEL SESSION - VS 2.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 2.2 Chair: Muhammed Çelik
12:30 PM - 01:30 PM	Lunch	
01:30 PM - 03:30 PM	PARALLEL SESSION - VS 3.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 3.2 Chair: Muhammed Çelik
03:30 PM - 04:00 PM	Coffee Break	
04:00 PM - 07:00 PM	PARALLEL SESSION - VS 4.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 4.2 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	PARALLEL SESSION - IPS 1.1 Chair: Turgut Özseven	PARALLEL SESSION - IPS 1.2 Chair: Hüseyin Emre Kankaya	PARALLEL SESSION - VS 5.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 5.2 Chair: Muhammed Çelik	
10:30 AM - 11:00 AM	Coffee Break				
11:00 AM - 12:30 PM	PARALLEL SESSION - IPS 2.1 Chair: Gökçe Nur Yılmaz	PARALLEL SESSION - IPS 2.2 Chair: Nuraini Jamil	PARALLEL SESSION - VS 6.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 6.2 Chair: Muhammed Çelik	
12:30 PM - 01:30 PM	Lunch				
01:30 PM - 02:00 PM			Invited Talk - ROOM 2 Dr. Korhan Cengiz Chair: Muhammed Çelik		
02:00 PM - 03:30 PM	PARALLEL SESSION - IPS 3.1 Chair: Kamran Dawood	PARALLEL SESSION - IPS 3.2 Chair: S. Mert Özer	PARALLEL SESSION - VS 7.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 7.2 Chair: Muhammed Çelik	
03:30 PM - 04:00 PM	Coffee Break				
04:00 PM - 07:00 PM			PARALLEL SESSION - VS 8.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 8.2 Chair: Muhammed Çelik	PARALLEL SESSION - VS 8.3 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	Tutorial Session Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy	PARALLEL SESSION - IPS 4.1 Chair: Asli Beyza Ciftpinar	PARALLEL SESSION - VS 9.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 9.2 Chair: Muhammed Çelik	
10:30 AM - 11:00 AM	Coffee Break				
11:00 AM - 12:30 PM	Tutorial Session Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy	PARALLEL SESSION - IPS 5.1 Chair: Souleyman Doutoum Assad	PARALLEL SESSION - VS 10.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 10.2 Chair: Muhammed Çelik	
12:30 PM - 01:30 PM	Lunch				
01:30 PM - 03:30 PM	SPECIAL SESSION - EXIT-ANA 2026 Chair: Murat Karakuş	PARALLEL SESSION - IPS 6.1 Chair: İrem Şimşek	PARALLEL SESSION - VS 11.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 11.2 Chair: Muhammed Çelik	PARALLEL SESSION - VS 11.3 Chair: Safa Enes Turkoglu
03:30 PM - 04:00 PM	Coffee Break				
04:00 PM - 06:00 PM	PARALLEL SESSION - IPS 7.1 Chair: Yusuf Garga Bello	PARALLEL SESSION - IPS 7.2 Chair: Ercan Aykut	PARALLEL SESSION - VS 12.1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS 12.2 Chair: Muhammed Çelik	PARALLEL SESSION - VS 12.3 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	Adem Alp Şahin , 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	Anıl Gökhan Göktaş , Semih Sezer
469 - Hardware Acceleration of User-Based Collaborative Filtering on an FPGA-Based SoC	Burak Batmaz , Zeynep Batmaz
530 - SQP-Based Energy-Efficient Hybrid Beamforming for ISAC Systems	Doğukan Uykun , Murat Temiz
243 - A Study on Efficient Retrieval for Qwen-based RAG Systems	Elif Naz Türk , 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	Ensar Akbaş , Berkay Yüce, Hakan Ayтуğ Fırat, Batuhan Umay, Serdar Solak
184 - Enhancing Trust in Automated Fact-Checking: Claim Veracity Classification via Transformers and Explainable AI	Mustafa Etcil , 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	Ibrahim Yusuf , Mohammed Al-Hubaishi, Büşra ŞAHİN
549 - A Modular Software Architecture for Tool Tracking and Calibration Compliance in Aviation Maintenance Systems	Juliana ROMIALISON , 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	Ivelina Metodieva , Stoyan Bozhkov, Ivelina Takeva-Beberova
487 - Scalable Hybrid LSH-Based Framework for Structural Code Clone Detection	Dasun Wickramasooriya , Bilal Awshid, Hasintha Dilshan, Sudila Jayasekara, Nuwan Kodagoda, Kalpani Manathunga
42 - Rule-Based Knowledge Distillation for Interpreting Random Forest Decision Functions	Mert Büyükdede, Esmâ Gülfem Aktaş
106 - When to Fly: A Passenger Decision-Support System Based on Climate-Sensitive Flight Disruption Likelihood	Nasim Ahmadzadeh Nobari Azar , Mohammad Karami
281 - Phoneme-Based Accent-Adaptive Speech Recognition for Accurate and Mispronunciation Feedback	Chalana Fernando , Dinithi Sanjana, Akila Ishan, Savishka Dilshan, Poojani Gunathilake, Dharshana Kasthurirathna
357 - A Structured Approach to Grammar and Style Checking of Scientific Texts with ChatGPT	Aldeniz Rashidov , 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	Prabha Kumarage , Sachini Gunasekara, Mirka Saarela
346 - Efficient Hybrid Deep Learning Framework for Accurate Day-Ahead Electricity Price Forecasting in the Danish DK1 Market	Zainab Faris , Ehab Abdulrazzaq Hussein
266 - Global Careers, Local Belonging: Digital Technologies and Place-Belongingness in Professional Sport	Hesam Mohseni , António Correia, Johanna Silvennoinen, Tommi Kärkkäinen
409 - LankaLens: A Mobile-Based Heritage Exploration System for Artifact Reconstruction and Location Tracking	Hasara Herath , Upadhya Dissanayaka, Kavishka Bandara, Miyuru Gunawardhana, Aruna Ishara, Nushkan Nismi
502 - A Secure and Scalable Fintech-as-a-Service Architecture for Digital Wallet Ecosystems	Busra Ozdenizci Kose , 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	Antti Nyman , Tommi Kärkkäinen, Antti Ekonoja, Hesam Mohseni, Daniel Schneider, António Correia
412 - History-Aware Dynamic Quantum Time Allocation for Round Robin Scheduling	İdris Batuhan Aydn , 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, Jasmine Santinelli , 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, Jasmine Santinelli , Andrea Martinenghi, Marco Rebellin, Vittorio Lorenzi
389 - Synergy Model of Threats in DeFi Smart Contracts	Vladyslav Khvostenko, Olexander Shmatko, Yelyzaveta Sevriukova, Illia Bukatych , Iegorashyn Oleksandr, Iurii Iashunin
301 - Why Beginners Abandon Quantum Programming: Barriers to Developer Experience and a Scaffolding Approach to Development Environment Setup	Eduard Ciriaco , Vlad Stirbu, António Correia
499 - A Hybrid CNN-BiGRU Model with Multi-Head Self-Attention for EEG Based Sleep Stage Classification	Evin Şahin Sadık
286 - A Fuzzy Logic Approach for Temporal and Repetitive Evaluation of Neck Movements in RULA-Based Ergonomic Assessment	Oğuz Gora , Hakan Dalkılıç
378 - SMPL Virtual Try-On (S-VTON): A Solution for Systemic Challenges in Apparel Industry	Ömer Faruk Ereken , 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	Safak Kayikci , Taghi M. Khoshgoftaar
219 - A Machine Learning Approach Based on Combined Feature Ranking and Targeted Ablation in Early-Stage Diabetes Risk Prediction	Nurullah Öztürk, Sermin Güngör
503 - Intelligent Guidance Algorithms for Autonomous Unmanned Interception Systems: Smart Information Processing and Decision-Making	Stanislav Milevskyi , 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	Drissia Ennagoura , 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	Taha Yüksel
388 - Hybrid-Iteration Optimal Frequency Regulation for Power Systems with Stochastic Operating Modes	Yulan Liao , Shengda Tang
200 - Multifrequency FSS Design for Smart EM Windows	Yiğit Parlak , Sultan Can
477 - Akura: Dyslexia Aware Sinhala Essay Grading System	Nuwani Fonseka, Tiny Handalage , Sadeesha Perera, Hasindu Rangika, Kalpani Manathunga , Aparna Jayawardena
148 - Modeling and optimization of noise-tolerant coding algorithms for 6G-oriented communication networks	Sergii Dunaiev , 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 Iddamaligoda, 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 QUÍNTAL 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	Yunus Emre Demirdağ, Betül Ay
259 - RepoWise: A Hybrid RAG-Based Conversational System for Software Repository Analysis	Mehmet Oğuz Kocadere, Yusuf Emir Cömert, Sudenaz Yazıcı, Şamil Giray Karaçay, İbrahim Baran Yıldız, Tuğba Gürgen Erdoğan
332 - Design of a Via-Loaded Interdigital Microstrip Bandpass Filter for S-Band Applications	Emirhan Gözel, Cemre Bengisu Şar, İrem Atalay, Emirhan Sağ, Sultan Can
387 - Investigating Performance of Voting Ensemble Model on Bearing Fault Classification	Ezgi Orhan, Ahmet Sinan Oktem
408 - Look Where You Want to Go: A Gaze-Driven Semi-Autonomous Personal Transportation System	Cihat Ünver, Emre Can Contarlı, Volkan Sezer
349 - Experimental Validation of a Modular Low-Voltage Battery Management System with Model-Based Architecture	Yiğit Burak VAROL, Fikret ÇALIŞKAN
380 - A Centralized Heuristic for Energy Balancing in Wireless Sensor Networks	Hüseyin Emre Kankaya

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	Uğur Berk Şahin, 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	Wen Zhou, Biqiao Wu, Yang Li, Juan Lei, Lingyun Wan
588 - Hybrid ECG Arrhythmia Classification Using Fuzzy C-Means Enhanced Feature Fusion and Machine Learning	Sema Yıldırım, İbrahim Arslanoğlu, Cem Haydaroğlu
180 - Matching Ride Requests and Drivers with Route-Corridor-Based Filtering of Driver Intent and Multi-Criteria Real-Time Scoring	Engin Tanrıku, 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	Engin Tanrıku, Akın Kırıcı, Emir Esmerdağ, Mustafa Ünlü, Emre Gerçek, TUNA ÇAKAR
491 - SpectraTest: Prompt Engineering-Based REST API Test Generation	Süleyman Sercem Gülmez, Emel Koç
342 - Evaluation of Multi-Modal Object Detection and Fusion Strategies for Automatic Train Operation	Fırat Bozkaya, 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	Betim Hoxha , Katya Asparuhova, Milaim Zabeli
451 - Exploring the Synergy between AI and 5G Technology in Promoting the Innovation of Industrial Energy Infrastructure	Xiu Li , Pikunthong Nukthamna, Zhixuan Yang, Yingyu Wang, Yinglu Liu
282 - AI-Enabled Lost and Found System with Adaptive Retrieval and Intelligent Security Monitoring	Minuk Weerakoon , 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	Ridvan Firat Cinar , 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	Takeshi Dilshan , Sachini Kaushalya, Dileka Gunawardena, Anjana Kuruppuarachchi, 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, Ridvan Firat Cinar , Serdar Ekinci
526 - SkewSense: ML-Driven Partition Optimization for Distributed Systems	Şeyma Nur Altuntaş , 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	BUSRA CELIK , TOLGAY KARA, ROBERTO QUÍNTAL PALOMO
559 - AI-Driven Brain Signal Analysis for Early Detection and Diagnosis of Neurological Disorders	Ediz Arkin Kobak , 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	Efe Korhan Uz , Hüseyin Atacan Akgün, Hüseyin Yontar, Alper Demir
218 - Hierarchical Hybrid Transformer for Image Super-Resolution	Bora BAŞARAN , Deniz POLAT, Gökçe NUR YILMAZ, Ali BERKOL
217 - Overcoming Compression Artifacts in Oral Malignancy Detection via Deep Restoration and Ensemble Learning	Bora BAŞARAN , Deniz POLAT, Gökçe NUR YILMAZ
333 - Design of a High-Selectivity Quasi-Elliptic Hairpin Bandpass Filter with DMS and Mitered Bends	İrem Atalay , 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	Nazlıcan İren , 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	Anastasia Mia Martalia , Saiful Akbar
553 - IoMT-Based Continuous Glucose Monitoring: Integrated Decision Support Framework	Ayat Amer , Ahmed N. Rashid
206 - Designing and Evaluating Voice-Based Interaction for Human-Drone Collaboration	Dimosthenis Minas , 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, Joseph Shaban , Yeşim Öniş
454 - SVGP-Enhanced ADRC with Residual Learning for Nonlinear Systems	Muhammad Umer Khan, Amir Nobahar
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	Nuraini Jamil , 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	Ercan Ezin, Yasin İnağ
153 - Optimizing Sustainable Water Management and Renewable Energy Generation Through Floating Photovoltaics and Artificial Intelligence	Mustafa Falih, Oguz Karan
369 - Interference-Aware Complex Phasor Message Passing Network for Joint Beamforming Optimization in Multi-User IRS-Assisted 6G Systems	Mustafa Ihsan Mustafa, Osman Nuri Ucan
575 - Flood Prediction Framework Using an Ensemble Machine Learning Algorithm	Douglas Kilyobas Titus, Benson Yusuf Baha, Daniel Godwin
449 - Leveraging Harmonic Analysis for Feature Extraction and Selection in Time-Series Data Processing	Yong Wang, Xiaowen Chen
535 - AI Agent Orchestrated Phishing Detection Using Natural Language Processing and Machine Learning	Tolga Üner, Gökhan Dalkılıç
302 - Cryptocurrency Wallet Key Management Using Secret Sharing	Doğa Ece Koca, Burak Kıyak, Hakan Dalkılıç
PARALLEL SESSION - VS 6.2	ROOM 2
Date: Friday, May 22, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
112 - One Text, Five Years, Multiple Systems: A Longitudinal Case Study of French–Czech Machine Translation (2020–2025)	Kateřina Motalík Hodková
115 - From Post-Hoc Regulation to Runtime Governance: Ethics and Explainability in AI-Driven Education	Mirka Saarela, Prashanth Shenoy
142 - Functional Stability of Cyber technological Processes Using Controllability of Discrete Systems	Oleksandr Laptiev, Volodymyr Pichkur, Andrii Sobchuk, Serhii Laptiev, Serhii Holdobin, Yuriy Grytsuk
183 - Evaluating AI in Education: Balancing Fairness, Explainability, and Performance	Sachini Gunasekara, Mirka Saarela
577 - Interactive Sign Language Learning System with Multimodal Emotion and Interaction Recognition Analysis	S N Rupasinghe, P A D K Lakshman, K S Dilumina, K M Mahoshadhi, Samantha E R Siriwardana, Ishara Weerathunga
428 - A Three-Phase AI Framework for Distributed Database Optimization	Shatha Abdulkhaleq, Hayri Sever
41 - MATLAB-Based Analytical Modeling of the 5G NR Resource Grid Incorporating PDSCH, PDCCH, and CSI-RS	Kadhim Hassan Kaittan, Nabeel Jabal Abed, Laith Ali Abdul Rahaim, Zaid Saadi Hussein
INVITED TALK SESSION	ROOM 2
Date: Saturday, May 23, 2026	Time (GMT+3): 01:30 PM - 02:00 PM
Chair: Muhammed Çelik	Presentation Format: VIRTUAL
Invited Talk Dr. Korhan Cengiz	
PARALLEL SESSION - IPS 3.1	HALL: İSTIKLAL 5
Date: Friday, May 22, 2026	Time (GMT+3): 02:00 PM - 03:30 PM
Chair: Kamran Dawood	Presentation Format: IN-PERSON
410 - Transfer Matrix Method Based Electromagnetic Simulation Software for Analysis and Design of Radomes and Radar Absorbing Materials	Ada Akten, Taylan Ünver, Fahrettin Tural, Sultan Can
379 - Temporal and Spatial Dynamics of Public Transit in Istanbul: A Data-Driven Analysis of Passenger Demand Patterns	Ediz Arkin Kobak, Mert Koğuş, Beyazıt Tur, Alper Demir
516 - Detecting Smart Contract Vulnerabilities with Explainable AI	Mohammed Usman Tahir, Alperen Örsdemir, Usman Khalid, Alptekin Küpçü
312 - Techno-Economic and Physical Impact of Winding Material Selection in Transformers: A Regulatory Comparison between TEDAŞ and Tier 2 Specifications	Kamran Dawood, Muhammed Alperen Çakir, Semih Tursun
478 - Transformer Core Material Assessment: A Comparison of Tier 2 European Standard and TEDAŞ Turkish Specifications on H0 and M4 Steels	Kamran Dawood, Furkan Gezer, Semih Tursun
501 - A REAL-TIME MULTI-SENSOR FUSION FRAMEWORK FOR UAV THREAT ASSESSMENT	Petek ŞENER, Gül ERTEN, Ahmet Gökhan GÖZE, Melih Can HAMURCU, Çağlar AKMAN, Mehmet KILIÇARSLAN

PARALLEL SESSION - IPS 3.2	HALL: ISTIKLAL 6
Date: Friday, May 22, 2026	Time (GMT+3): 02:00 PM - 03:30 PM
Chair: S. Mert Özer	Presentation Format: IN-PERSON
241 - An Empirical Comparison of Traditional ML and GPT-Based LLMs for Turkish E-Commerce Review Moderation	Muhammed Abdullah Özdemir , Melih Rıza Koç, Mustafa Buğra Yılmaz, Mehmet Ali Ekmiş, Bilal Ekinci
121 - On the Fundamental Limitations of Neural Networks for Statistical Randomness Testing: A Negative Result	Oğuzhan Durmuş , Gökhan Dalkılıç
466 - Delay-Aware Control of a Gyroscopic Stabilization System by Optimization: Spectral Analysis and Experimental Validation	Emin Sakallıoğlu, S. Mert Özer
39 - Carbon-Aware Digital Twin Scheduling for Resilient Supply Chains: An Integrated Reinforcement Learning and Large Language Model Approach	Hüseyin ÜNÖZKAN , Hüseyin Ali SARIKAYA
45 - Visual and Structural Prompt Injection in Medical RAG Systems: A Comparative Robustness Analysis	SONGÜL ERDEM GÜLER , MUHAMMED ALİ AYDIN

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	Sandev Jayaweera , Nandun Perera, Sanduni Nimasha, Jaladhi Samarakoon, Dinithi Pandithage, Tharaniyawarma Kumaralingam
450 - A Conceptual Framework for an Intelligent Generative System for Spatial Design Based on Affective Computing and Design Thinking	Zhenchuan Liu , Tingting Zhao
267 - A Multi-Level OLAP Architecture for Open and Shared Highway Scientific Big Data Analytics	Taojie Wang
486 - Hemora: Multi-modal Deep Learning Approach for Automated Hematological Disease Detection	Senura Aluthge , Oshan Disanayake, Sayuri Sachinthanee, Nisitha Dassanayake
557 - SenseAI : A Hybrid, Age-Stratified Cognitive Flexibility and Auditory Response Screening System for Early Autism Risk Detection	Samindi Sankalpani , Sandeepa Karunathilaka, Hasini Ilanganthilake, Geethika Senawirathna, Samantha Siriwardana , Mihiri Samaraweera
490 - Multilingual Speech Emotion Recognition with Self-Supervised Representations and Prototypical Networks	Kseniia Kholodkovskaia , 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, Antonia De Amorim , Krishan Kumar
583 - An Ensemble Machine Learning Framework for Real-Time Procrastination Pattern Detection in Academic Desktop Environments	Vilochana A.G.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, Ivan Chekurov , Ivan Shopov
399 - A Hybrid Deep Neural Network for DDoS Attacks Detection In IoT Networks	Salwan Naeem Thjeel, Hayri Sever
436 - An Integrated Machine Learning and Clinical Analysis System for Kidney Disease Prediction and Management	Sithija Ranathunga , Harsha Shehani, Nirasha Roshali, Ashini Madinu
205 - Artificial Intelligence-Based Shoreline Monitoring and Hatchling Behavioral Analysis for Sea Turtle Conservation	Sithumini Palamure , 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, Ruslan Vegiev

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	Mohammed Yasser Hussein , Salah Awad Salman, Mohammed Rabeea Hashim
402 - NEXUS: A Microservice-Based Network Emulation Platform with Topology Isolation, Flow-Based Analytics, and AI-Driven Control	Ege Berk Uslu , Orhan Dagdeviren
151 - Evaluation of Synthetic Images Generated for Traditional Residential Architecture Using Few-Shot Approach	Ayşe Berika Varol Malkocoglu , Didem Baran Ergül
540 - Headphone with Safety System that Warn Pedestrians of Imminent Dangers	Merve YILDIZ, Ceyhan YILMAZ
528 - Optimization of Surplus Energy in a Nanogrid-based Virtual Power Plant: A Seasonal Case Study	Cihan Ayhanci , Bedri Kekezoğlu, Ali Durusu
344 - Inductor-Based Active Cell Balancing Strategy for Electric Vehicle Battery Management Systems	Erdinç Aslan , Ozan Yazar, Serdar Coskun, Fengqi Zhang
574 - Hybrid Deep Learning Models for Solar Energy Production Forecasting: Explainable Artificial Intelligence Approach	Faruk Kirmizizambak, Emre Bicek
44 - Graph-Enhanced LLM Architecture for Reliable Data Management: Design Principles and Proof of Concept	Otmane Azeroual, Radka Nacheva
268 - Low Temperature RF Switches Based on Superconducting Fano Devices	Yiling Zhang
235 - A Steganographic Container Selection Method with Negligible Computational Complexity	Ivan Bobok , Svitlana Hryhorenko, Alla Kobozieva
459 - Evidence-First Retrieval Augmented Generation with Claim Repair for Security Operations Center Workflows	Mehmet Anıl Taysi , Rabia Eda Yılmaz, Hıdır Bozkurt, Ayşe İrem Özmen, Gökhan İnce
285 - Towards Realistic SoC Estimation Using Real-World Electric Vehicle Data	Mehmet Küçük , Uzay Gezer, Ozan Yazar, Serdar Coskun, Fengqi Zhang
146 - Attack Potential-Based Cybersecurity Risk Assessment of AV Sensing Systems	Ferhat AGAC , 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, Andres Iglesias
303 - Smart Solar Advisor: AI-Driven IoT-Based System for Location-Aware Monthly Energy Forecasting	Chamika Dilshan , 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	Aysegul Ucar , 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, Daniil Viukhin
555 - Smart Solar Angle Optimizer with ML Forecasting and IoT Synchronization	Dewhara Abeyasinghe , Priyanka Prabashwara, Hasara Samarawickrama, Sithmi Himanshi, Dharshana Kasthurirathna, Nuwan Kodagoda
288 - Retrieval-Augmented Generation for Technical Intelligence in Aerospace and Defense Systems	Fehmi Yener , Merve Duman, Gokhan Bakal
339 - Random ReLU–Based Support Vector Machine Classifier for Frequency-Domain Data	Binura Perera , Ashane Fernando, Pasan Edirisinghe, Hasitha Premasiri
584 - Real-Time DDoS Detection for SDN with Stacking Ensembles in OMNeT++	Ömer Dakkak, Boushra Alnaima
147 - Dual-Channel LLM-Guided Semantic Feature Extraction with Zero-Shot Classification for Zero-Day Malware Detection	Ahmed Essaa AlOwaidi , 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, Miroslav Pohasii
314 - Sinhala Learn: AI-Based Education Assistant for Sinhala Resources	Miyuri Lokuhewage , 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	Gimashi Ishara , Chamindu Wijesooriya, Ravindu Perera, Sarindu Mathota, Nuwan Kodagoda, Jenny Krishara
22 - Deep Neural Networks for Maximum Power Point Tracking in Photovoltaic Systems: A Review	Waleed Hameed , 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, Ceren Ulus , M. Fatih Akay
71 - Schizophrenia Diagnosis from Resting-State fMRI Using a Hybrid Machine Learning Approach Based on Functional Connectivity Patterns	Dilara Bükler , Gökalp Çınarlar
546 - Revenue Management and Operational Efficiency in Aviation Enterprises: A Categorical Analysis of Contemporary Literature (2023-2026)	PIRIL TEKİN, FATMA ŞEYMA YÜKSEL
179 - A Real-Time Product Usage and Smart Reporting Platform Based on XGBoost and Transformer Models	Erinç Samim Merdivenci , Besna Ruken Tarhan, Damla Doğru Babacan, TUNA ÇAKAR
9 - Cross-Lingual Performance Evaluation of Requirements Classification: Functional vs. Non-Functional in Turkish and English	Serhat Uzunbayir , Senem Kumova Metin
464 - Evaluating Part-Aware Cascade and End-to-End Models for Vehicle Damage Segmentation	Nimet Karagöz Gökçen , İbrahim Halil Demircioğlu, Gönül Beril Aksu, C.Okan Sakar, Yunus Karaman
317 - Cephalic Adaptive Smart Digital Displays	Omsai Baswaraj Bulla , 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	Mohammed H. Alaqad , Ali Sorayyaei Azar, Hani Alhasani, Mohammad Ali Al-Saggaf, Mahamatayuding Samah
347 - Benchmarking AI-Generated Text Detection Tools in Academic Writing: An Experimental Evaluation	Mohammed H. Alaqad , 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, Alper Doruk Yıldız , Ali İhsan Sarı, Atajan Rovshenov
72 - Validation Strategy Effects on Data Leakage for EEG-Based Drowsiness Detection	Gamze AKSOY , Ümit BUDAK, Musa ÇIBUK
178 - Panama Feature-Store Ensuring Offline–Online Consistency with a YAML-Based Contract Language in MLOps	Öykü Zeynep Aslan , Alperen Kan, Gizem Kılınc Aydın, Murat Özcan, Meltem Sanisoğlu, TUNA ÇAKAR
565 - Electroporation Parameters Based Survival Rate Prediction for Bile Duct Cancer: A Comparative Artificial Intelligence Study	Tugce Binen , Muhammet Üsame Özic, Sevilay Cetin

Tutorial Session	HALL: ISTIKLAL 5
Date: Saturday, May 23, 2026	Time (GMT+3): 9:00 AM - 10:30 AM
Chair: Murat Karakus	Presentation Format: IN-PERSON
Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy	
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 Önez
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, Fırat 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

Tutorial Session	HALL: ISTIKLAL 5
Date: Saturday, May 23, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Murat Karakuş	Presentation Format: IN-PERSON
Explainable, Interpretable & Trustworthy AI for Next-Generation Network Autonomy	
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)	

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

PARALLEL SESSION - VS 10.1	ROOM 1
Date: Saturday, May 23, 2026	Time (GMT+3): 11:00 AM - 12:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
83 - Toward Autonomous Design with AI-Native Systems Engineering	Ali Berkol , 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	Oleksandr Sitchenko , 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	Oleksandr Umanskiy , 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, Ömer Faruk AÇIKGÖZ
18 - Censoring-Aware Partially Linear Modeling of Human–Robot Task Completion Times	Ersin Yılmaz
287 - Label-Efficient White Blood Cell Classification via Knowledge Distillation on a Large-Scale Peripheral Smear Dataset	Osman Furkan Karakuş , Ali Can Karaca, Hamza Osman İlhan
376 - Machine Learning-Based Optimization of Product Loading in Airline In-Flight Sales	Serkan Kocoglu , Zuleyha Akusta Dagdeviren

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

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

PARALLEL SESSION - IPS 6.1	HALL: ISTIKLAL 6
Date: Saturday, May 23, 2026	Time (GMT+3): 01:30 PM - 03:30 PM
Chair: İrem Şimşek	Presentation Format: IN-PERSON
172 - Web-Based Comparative Analysis Framework for Metaheuristic Optimization Algorithms: A Unified Educational Approach	Selin Eryasar , Ali Durmus, Rifat Kurban
274 - Comparative Evaluation of YOLO Architectures for Missile Plume Detection in Solar-Blind Ultraviolet Imaging	Nuray Hanimnaz Karaman , Tugba Selcen Navruz
350 - Multi Agent Reinforcement Learning Based Swarm Navigation	Omer Yigit , 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	Meliha Mutlu , Mete Celik, Meltem Kacikoc, Filiz Dadaser-Celik
145 - A Real World Deployable Deep Learning System For Early Skin Cancer Screening From Skin Images	Mahmut Furkan Bakal , Aysu İrem Adem, Arda Sezen, Naz Dumanoglu
197 - Osteoporosis Risk Classification from Lumbar Spine DXA Images	Amina Khal Murad Mirza , Waleed Abdurrah Hafiz, Aeshah Saeed Rajab, Sultan Ali Albargi, Anday Duru
473 - A Resource-Efficient Hardware Accelerator for LightGlue on Reconfigurable Embedded Devices	Kutluğhan Özkan , Süleyman Tosun
452 - Attention Comparison in Task-Free vs. Task-Driven Viewing: AI vs. Real Images	İrem Şimşek , Eren Ulu
375 - AI Agent-Assisted Lightweight Intrusion Detection for IoT Devices	Doğancan Karakoç , 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	Sewwandi Irugal Bandara , Amasha Gamage, Sathma Pamudi, Meedumi Rashmika, Sanvitha Kasthuriarachchi, Thisara Shyamalee
264 - A Sensor-Driven LED Lighting Optimization Model for Place-Making and Urban Revitalization	Danying Chen , ZuHao Liu
271 - Deep Learning-Based Rainfall–Runoff Modeling for River Basin Water Resource Prediction	Jia Hu
229 - An Adaptive AI-Enhanced Automated Web Security Scanner with Multi-Vector Testing and Vulnerability Chaining	Mohammed Adnan Ahmed Ahmed
154 - Two-Stage Nonlinear Torque Observer-based Robust Backstepping Speed Control for IPMSM Drives	Moustafa Hassanein , Fatih Adigüzel
587 - Smart Agri-Suite_ A Globally Deployable Machine Learning Platform	Eranga Bowatte , Chamindu De Silva, Senudi Rupasinghe, Janakalani Maheepala, Dhammika H. De Silva, Lakmini Abeywardhana
524 - What Makes an LLM Trust Your Source?	Emre Aşkın , Muhammet Baykara
529 - A Lightweight Hardware Accelerator for Fixed-Point Least-Squares Estimation in RISC-V SoCs	Muhammet Emin Akgun , Alp Arslan Bayrakci
446 - Design and Implementation of a PLC-Based Greenhouse Climate Control System	Betim Hoxha , 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, Hauwa Wakil Adamu , Zainab Deen
589 - AI Driven Platform for Handwriting Based ADHD Detection for Children	Hima Alahakoon , 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	Yuandong Xu , Lan Tang
143 - Methodology for OSINT analysis of geopolitical risks in critical open source infrastructure	Ivan Parkhomenko, Larysa Myrutenko, Yurii Sokyran , Tetiana Laptieva, Denys Matsevych, Andrii Krush
564 - AloeGreen: Smart IOT-Based System For Aloe Vera	Eesara Megasooriya , 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, Elif Buse Duman , 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, Nilesh P , 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	Ahmed Rahi , Hassan Motlak, Riyadh Thahab
182 - Effect of Joint-Specific PD Gain Allocation on Position Tracking Performance in Snake Robots	Ahmet DEMIRCI , 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	Mücahit Emre Kabaoğlu , Mustafa Hikmet Bilgehan Uçar
480 - Corporate Banking Product Purchase Prediction Across Multiple Horizons Using Multimodal Tabular Features	Berke Gunes , C.Okan Sakar
213 - Hybrid Architecture for the Detection of AI-Generated Synthetic Images	Batuhan Tanrıverdi , Hamza Osman İlhan
79 - A Systematic Robustness Analysis of Context Re-Positioning in Long-Context Language Models	Muhammet Tarık Yılmaz, Yusuf Çakır
20 - FUZZY LINGUISTIC SUMMARIZATION IN THE ELECTRONIC COMMUNICATIONS SECTOR: PROTOFORM-BASED NATURAL LANGUAGE INSIGHTS FOR DIGITALIZATION AND DECISION SUPPORT	Ali Burak Akbulut , Diyar Akay, Ümran Kaya
474 - Kan Hücrelerinin Otomatik Tespit Edilmesinde YOLO Mimarilerinin Performanslarının Karşılaştırılması	Kader ÇEPNİ YAĞIZ , Durmuş Özkan ŞAHİN
599 - SHAP and LIME Enhanced Tsunami Detection with Stacking Based Integration of Advanced Tabular Deep Learning Models	Burçak Asal
527 - Residual Vibration Suppression in a Flexible Beam via Tuned Ramp–Cycloid Motion Profiles: Application on a Stewart Platform	Mustafa Kesik , Mehmet Erkan Kütük, Sadettin Kapucu
370 - Deep Learning Approaches for Tumor-Stroma Classification in Colorectal Cancer Pathology	Aysun Yılmaz Kızılboğa , 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.	Chahyaandida Ishaya , 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 , Chahyaandida Ishaya , 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	Daniel Godwin , 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 , Jibrailu Daniel , Yohanna Dauda
581 - Bias and Fairness in AI Systems: Theoretical Analysis and Empirical Validation Through Reweighting Mitigation	Louis Adamu Obadiah , 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	Muhammed Besir Acar , 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	Ndachimya Magaji Edward , Daniel Godwin, Fares Odeh, Aytuğ Sağlam, Moustafa Leila
545 - A Fairness-Aware Constraint Satisfaction Framework for University Exam Timetabling	Jibrailu Daniel, Yusuf Garga Bello , 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	Enes Abdülhalik , 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, Ercan Aykut , Kübra Erdoğan, M. Cihat Mumcu, İzzet Yavuz
239 - Feynman Explanation Prompting: A Pedagogically Grounded Framework for Large Language Models	Fatih Bildirici , Murat Karakus, Rukiye Kiziltepe
406 - A Learning-Based Fault Detection Approach for Unmanned Aerial Systems Using Inertial Sensor Data	Furkan YUKSEL , Suleyman TOSUN
544 - The RISC-V TEE Landscape: A Survey of Isolation Architectures, Extended Security Mechanisms and Open Research Challenges	Harun Cetin , 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	Guangya Li , Jianpeng Cheng, Zhe Zhang, Zhipeng Zhang
270 - Optimization of Cross-Border E-Commerce Dispute Resolution Using AI-Supported Legal Frameworks	HANBING LI , YICHENG TIAN
456 - CardioRAG: Toward Trustworthy Medical Question Answering through Hypothetical Document and Instruction-Aware Embedding	Sandun Mapalagama , 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	Ravindu Iddamalgoda , Divyani Piyathilaka, Dilum Pallebathgala, Harshana Abeyrathne, Samantha Thelijjagoda, Junius Anjana Vidanaralage
252 - A Robust EEGNet-Based Framework with Advanced Preprocessing for Cross-Subject and Cross-Session Motor-Imagery BCI	Bakynam Zakareya , Raouf Fareh, Kheireddine Choutri, Abir Hussain, Maamar Bettayeb
455 - IoT Payments: Bridging The Gap Between Connectivity, Compliance and Commerce	Boris Robev , Ioannis Patias
313 - AI-Powered VR Platform for Interactive Learning and Immersive Exploration of Historical Events	Disara Kahatapitiya, Vinuji Palihakkara, Sajith Fernando , Rashmika Jayarathna, Dinuka Wijendra, Thilini Jayalath
38 - Smart Meter For Controlling Solar Power System End Side- Based Smart PSO-TTHS Algorithms	Zahraa Talib , 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, Induwara Sirimanna , Muhammed Arshaq , Randini Perumbuli , Nathali Silva , Thilini Jayalath

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	Damitha Rajapaksha , Hiruni Rathnayaka, Sandupama Sithumini, Harshana Perera
488 - Real-Time Vehicle Fault Detection Using Acoustic Analysis and Machine Learning	Dinal Adithya , Sasindu Wijesinghe, Panduka Desan, Kavindu Denuwan, Nelum Chathuranga, Kaushika Kahatapitiya
496 - Smart Platform for Construction Analytics, Scheduling, Cost, and Quality	Dineth Vithana , 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	Abdel Motalib Lagsoun , Mustapha Oujoura, Mustapha Hedabou, Abdelghafour Atlas, Omar Boudellah, Anass GARBAZ, Mohamed El Ansari, Lahcen Koutti
122 - Block-size effects on singular vector alignment for SVD-based steganographic embedding	Yehor Zhuk, Artem Sokolov , Yevhen Holovko, Anton Smirnov, Serhii Isidorov, Oleksandr Melnychuk
424 - AI-Based Accident Detection and Severity Classification System with Passenger Awareness	J. I. Kaluarachchi , 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	Oleksandr Kushnerov , Vladyslav Sokol, Olena Akhiezer, Andrii Cherniavskiy, Oleh Tovma, Daniil Viukhin
468 - Hybrid GAN-RL Architecture for Hardware Trojan Detection in Gate-Level Netlists	Mohamed Ouail Islam Douar , Fatma Nur Esirci, Arzu Kakisim
10 - AI in Health Informatics Through the Eyes of Medical Students	Nikoleta Leventi , 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, Çağrı Efe , Ahmet Tuğrul Bayrak
291 - Transformer-Based Encoders Significantly Improve Remote Sensing Image Captioning: A Systematic Encoder Ablation Study	Enes Dilsiz , Ali Can Karaca
138 - A review of gate-structured recurrent neural network strategies for state-of-charge estimation in lithium-ion batteries	Fatih Eroğlu , Bilal Çatkın
80 - Knowledge Distillation for Large Language Models: A Survey with a Case Study for Human-Robot Interaction and Edge Deployment	Hatice Beril Satıcı , Ahmet Tuğrul Bayrak
579 - System Dependent Performance Analysis of Metaheuristic Algorithms for DOCR Coordination in Distribution Networks and Microgrids	İbrahim Arslanoğlu , İsmail Hakkı Altaş, Heybet Kılıç, Cem Haydaroğlu
494 - AI-Driven Business Intelligence for Fraud Detection A Systematic Literature Review	Ibrahim Yuluce , Fatih Dagdeviren, Murat Orun, Ismail Duran, Orhan Dagdeviren
517 - Developing a Multidimensional Political Proposition Set for Neuroscientific Research	GÖZDE FİLİZ , 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	Gülşah Demirbaş , Çağatay Murat Yılmaz
258 - MaxilloGAN: Maxillomandibular Mask Generation for Panoramic Dental Radiograph Synthesis	Merter Hami KARACAN , Sait Can YUCEBAS