

AICCONF 2026

4th Cognitive Models and Artificial Intelligence Conference

Information

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Panel Sessions
Accepted Papers

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Congress Statistics
Technical Program

April 24-25, 2026, Prague-Czech Republic

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- Tzung-Pei Hong, National University of Kaohsiung, Taiwan

Invited Speaker



Dr. Korhan Cengiz

*College of Computing and Intelligent Systems, University of Khorfakkan,
Sharjah, United Arab Emirates*

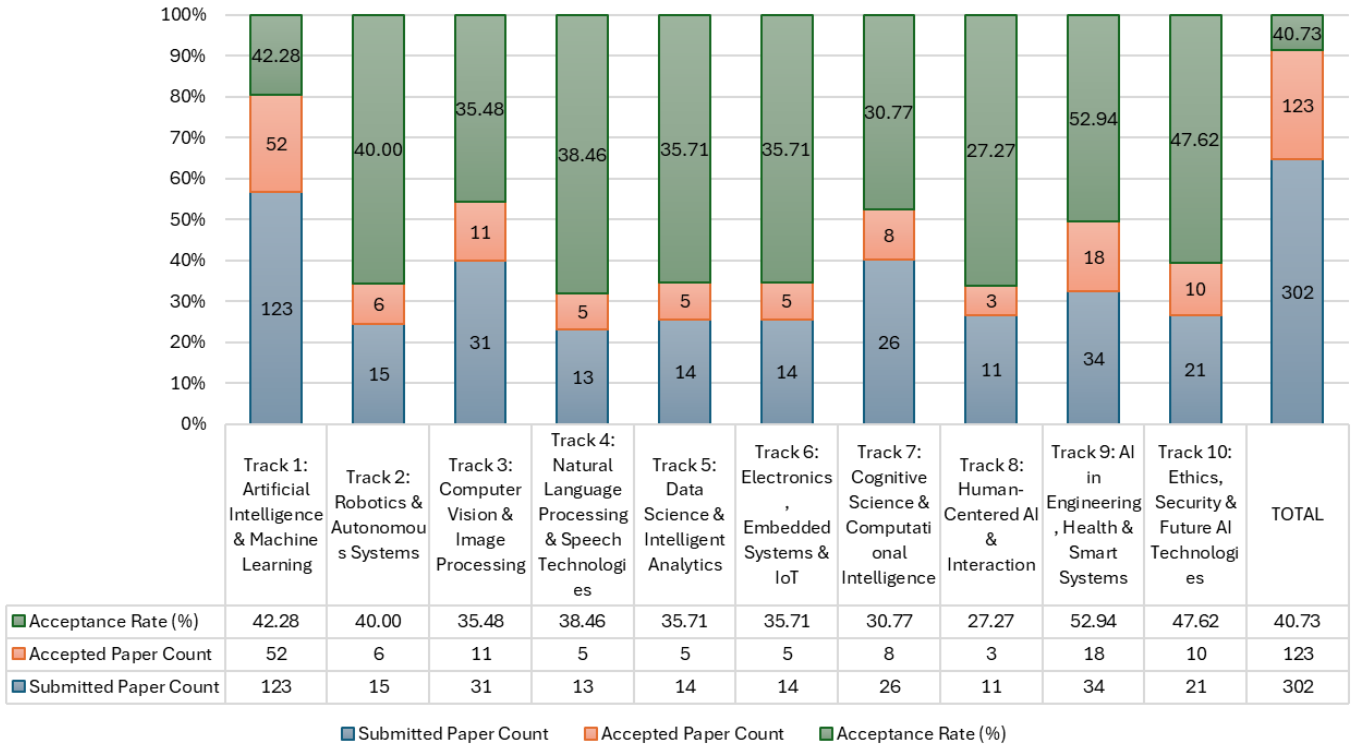
Title: "Artificial Intelligence for Next Generation Telecommunications Systems"

Short-Bio:

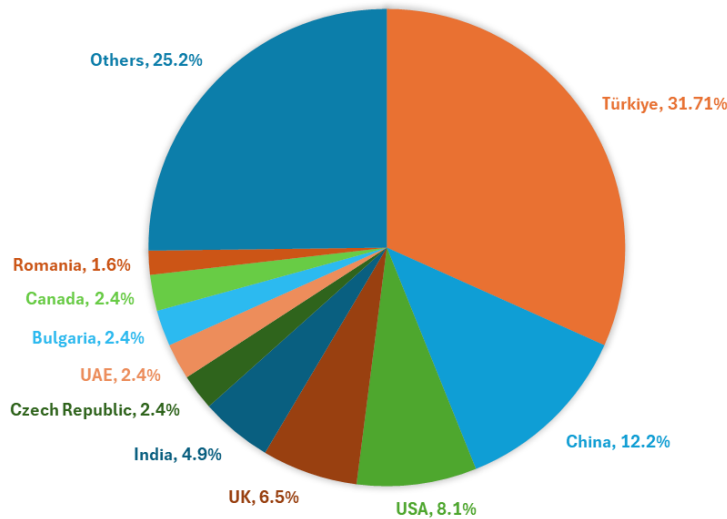
Assoc. Prof. Dr. Korhan Cengiz was born in Edirne, Turkey, in 1986. He received the BSc degrees in Electronics and Communication Engineering from Kocaeli University and Business Administration from Anadolu University, Turkey in 2008 and 2009 respectively. He took his MSc degree in Electronics and Communication Engineering from Namik Kemal University, Turkey in 2011, and the PhD degree in Electronics Engineering from Kadir Has University, Turkey in 2016. Since March 2023, He has been a Senior Researcher in the department of Information Technologies, University of Hradec Kralove, Kralove, Czech Republic. Since September 2022, He has been an Associate Professor in the department of Computer Engineering, Istinye University, Istanbul, Turkey. Since April 2022, he has been the chair of the research committee of University of Fujairah, United Arab Emirates. Since August 2021, he has been an Assistant Professor at the College of Information Technology in University of Fujairah, UAE. Dr. Cengiz is the author of more than 40 SCI / SCI-E articles including IEEE Internet of Things Journal, IEEE Access, Expert Systems with Applications, Knowledge Based Systems and ACM Transactions on Sensor Networks, 5 international patents, more than 10 book chapters, and 1 book in Turkish. He is editor of more than 20 books. His research interests include wireless sensor networks, wireless communications, statistical signal processing, indoor positioning systems, internet of things, power electronics and 5G. He is the Associate Editor of IEEE Transactions on Intelligent Transportation Systems, IEEE Potentials Magazine, Handling Editor of Microprocessors and Microsystems, Elsevier, Associate Editor of IET Electronics Letters, and IET Networks. He serves several reviewer positions for IEEE Internet of Things Journal, IEEE Sensors Journal and IEEE Access. He serves several book editor positions in IEEE, Springer, Elsevier, Wiley and CRC. He presented 40+ keynote talks in reputed IEEE and Springer Conferences about WSNs, IoT and 5G. He is Senior Member, IEEE and Professional Member of ACM. Dr. Cengiz' s awards and honors include the Tubitak Priority Areas PhD Scholarship, the Kadir Has University PhD Student Scholarship, best presentation award in ICAT 2016 Conference and best paper award in ICAT 2018 Conference.

AICCONF2026 Statistics

Acceptance Rate (40.73%)



Top 10 Countries by Number of Speakers



Country	Türkiye	China	USA	UK	India	Czech	UAE	Bulgaria	Canada	Romania	Others
S. Count	39	15	10	8	6	3	3	3	3	2	31
Rate (%)	31.71%	12.20%	8.1%	6.5%	4.9%	2.4%	2.4%	2.4%	2.4%	1.6%	25.2%

Bangladesh, Brazil, Bulgaria, Canada, China, Cyprus, Czech Republic, Denmark, Germany, Greece, Iceland, India, Ireland, Italy, Japan, Jordan, Kuwait, Latvia, Lebanon, Lithuania, Norway, Peru, Qatar, Romania, Saudi Arabia, Slovakia, Slovenia, South Africa, Sri Lanka, Switzerland, Türkiye, Ukraine, United Arab Emirates, United Kingdom, United States of America, Uzbekistan

Accepted Papers

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5	Zero-Shot Environmental Sustainability Text Classification Based on an Adapted Bechdel Test Using LLMs	Selin Büyüктаş, Pelin Büyüктаş	Selin Büyüктаş
17	Evaluation of Linear and Nonlinear Correlated Features for Enhanced Heart Disease Classification	Pranav Bharadwaj, Prajwal B, Raghavendra RA, Shruthi M L J	Pranav Bharadwaj
20	Integrating AI and IoT (AllIoT) for Modern Traffic Systems	Rotimi-Williams Bello, Roseline Ogundokun, Pius Adewale Owolawi, Etienne Van Wyk, Chunling Tu, Odunayo Imoru	Rotimi-Williams Bello
22	AI-Based Network Traffic Modeling & Synthetic Data Generation	Ali Berkol	Ali Berkol
23	AI-Driven Aerial Base Stations for Adaptive UAV-Based Connectivity	Ali Berkol, İdil Gökçe Demirtaş	Ali Berkol
25	The Silent Erosion of Governance: Unmasking the Suppression Effect of AI Catastrophizing on Public Trust via Hierarchical SEM	Panagiotis Tsarouhas , Konstantinos Grigoriadis	Konstantinos Grigoriadis
26	Health Practitioners' Encouragement to Apply Artificial Intelligence Technologies in Health Services	Saad Alsaleh, Talal Alzabni, Maram Alawad	Saad Alsaleh
27	AI-Driven Test Case Generation Using Retrieval-Augmented Enterprise Knowledge	Rajesh Kumar, Shweta Padhy	Rajesh Kumar
28	Digital Twin Guided ACT-R Modeling of Dual-Task Timing	SONAY DUMAN, BEHİYE ŞAHİN	SONAY DUMAN
30	Gaussian Regression Process Modeling of Bioconvective Nanofluid Flow in a Magnetically Driven Square Cavity	Yirmili Ummuhan, Pekmen Bengisen, Gurbuz Caldag Merve	Yirmili Ummuhan
32	Decoding the Neural Architecture of AI-Mediated Mental Healthcare: A Paradigm Shift in Telehealth and Cognitive Neuroscience	Saket Ganti	Saket Ganti
33	Resistance and Care: Co-Creating Secure Telehealth Practices Between Humans and AI in Surveillance Societies	Saket Ganti	Saket Ganti
35	Neuro-Oscillatory Generative Architecture: A Modular Brain-Inspired Framework for Creative AI and Hypothesis Generation	Saket Ganti	Saket Ganti
37	Diabetic Retinopathy Classification with EfficientNetB0 Model with Attention Mechanism: An Approach on OCT Images	Fatma Nur Ortataş, Zeliha Açıkgöz, Ayça Dolar	Ayça Dolar
45	Enterprise AI Upskilling via Synthetic Workforce Simulation of Cognitive Learning States	Claudio Ricci, Rolands Repetto, Marzio Lunghi, Stefania Stan	Claudio Ricci
46	Bridging the Gap: An Agentic AI Framework for Reverse-Engineering Automated Test Scripts into Natural Language Requirements	Furkan Bodur	Furkan Bodur
47	Dual Stream Attention Fusion Network Based on Physical Information (DSAF-Net): Research on Automated Quantitative Mineralogy and Mechanical Property Prediction for Rocks	Jiaxing Sun, Feng Chen	Jiaxing Sun
48	Smart Sports App Design and Development: With the Digital Enabling National Fitness Behavior Change as the Core	Qian Chen	Qian Chen
55	Scalable Big Data Analytics for Social Media Sentiment Mining: A Multi-Algorithm Framework Applied to COP29 Climate Discourse	Oluwole Fagbohun, Ifeoluwa Wuraola, Sadeeq Akintola, Nelson Ogbeide, Ilemona Abutu, Temitope Kadri, Joshua Obodai, Anuoluwapo Gabriel, Bisola Kayode, Okiki-Jesu Timothy Olumide, Peter Adetola Adetunji, Mgbame Michael, Chukwuka Michael Oforgu, Olanrewaju Odunowo, Tewogbade Shakir, David Uno	Oluwole Fagbohun

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57	Textile Surface Defect Detection under Low False-Alarm Constraints: CNNs and PaDiM	Anday Duru, Eftal Sehirli	Anday Duru
59	Enterprise Digital Management Strategy under the Data Lake Architecture: Multi-Dimensional Management Covering Data Quality, Security, and Compliance	Liyong Liao	Liyong Liao
63	Gamma2Patterns: Deep Cognitive Attention Region Identification and Gamma–Alpha Pattern Analysis	Sobhana Jahan, Saydul Akbar Murad, Nick Rahimi, Noorbakhsh Amiri Golilarz	Sobhana Jahan
82	Revisiting Day-Ahead Electricity Load Forecasting: The Effectiveness of Chronos Zero-Shot Models	İlayda Kaptan, İnanet Özge Aksu, Sina Ghaemi, Amjad Anvari-Moghaddam	İlayda Kaptan
83	ANALYZING ECO-INNOVATION PERFORMANCE WITH TREE-BASED MACHINE LEARNING AND SHAP ANALYSIS	Miraç Tuba ÇELİK, Asude DEMİR, Yunus DEMİR, Aytaç YILDIZ	Miraç Tuba ÇELİK
88	GPT-Eval: A Unified Evaluation Framework for Tools and Text Responses	Farhana Kabir, Tabassum Islam, Per Bækgaard, Mohammadreza Fani Sani	Tabassum Islam
91	AI-Powered Attack Surface Discovery: Analyzing SSL Pinning Bypass Capabilities with an LLM-Based Model	Hüseyin Enes Okutan, Muhammet Baykara, Engin Avcı	Hüseyin Enes Okutan
94	Unimodal Speech Emotion Recognition with Signal-to-Image Transformation and Deep Learning on the KTU-MEDAFE Dataset	Betül Mumcu, Bahar Hatipoğlu Yılmaz	Betül Mumcu
95	Smart Cyber Learning: A Multi-Agent, AI-Driven Gamified Platform for Cybersecurity Awareness Education	Abdelrahman Alkharabsheh, Hadil Al Masaabi, Maitha Alhadhrami, Azza Alhajri , Fatima Alruwaihı , Lina Momani	Abdelrahman Alkharabsheh
99	Multi-Agent Reasoning Framework for Consumer Sentiment Intelligence	Francis Umo, Oluwaseun, Adepegba, Eneremadu Nnadozie Anthony, Okwuchi Uzoigwe, Onyekachukwu Orji, Shirley Ugwa, Adewole Akinyemi Ampitan, Victor Chukwuemeka Mbachı, Oluwole Ilesanmi	Francis Umo
101	Agentic Narrative Generation: Personalised Storytelling for Brand Communication	Oluwaseun, Adepegba, Shirley Ugwa, Oluwole Ilesanmi, Oghenerukevwe Juliet Toje, Francis Umo, Victor Chukwuemeka Mbachı, Lanre Shittı, Christian Chimezie, Babatunde Solomon Jaiyesimi	Oluwaseun, Adepegba
102	The Interactive Emergence of Word Order: A Model of Cognitive Biases, Social Networks, and Cultural Transmission	Burcu Çınar	Burcu Çınar
103	StoryCheck: A Scalable Framework for Automated Evaluation of Creative Writing using AI Agents	Lanre Shittı, Michael Akintayo, Akinyemi Arabambi, Fatimat Okeleye, Onome Laura Owah, Olusegun Akinfenwa, Ajibola Olajide-Shokunbi, Babatunde Solomon Jaiyesimi, Oluwole Fagbohun, Raheemat Adetola Adetunji	Lanre Shittı
105	A Comparative Study of Machine Learning for Detecting Suspicious Student Behaviors in Online Examinations	Beyza Esin Ozseven, Turgut Özseven	Beyza Esin Ozseven
112	Smart Material Systems in Intelligent Robotic Automation: A Bibliometric Review of Sensor–Actuator Integration, Intelligent Control and Soft Robotics	Roseline Ogundokun, Rotimi-Williams Bello, Pius Adewale Owolawi, Chunling Tu, Etienne Van Wyk	Roseline Ogundokun
116	PRDTrace: A GenAI-Powered Tool for Automated Requirements-to-Code Traceability Analysis	Sri Tejaswi Gattupalli, Bhavya Paliwal	Sri Tejaswi Gattupalli
117	Comparative Analysis of Supervised Learning Models in Identifying Parkinson’s Disease Patients Using Prodromal Symptoms	Galathara Kahanda, Jarod Lopez, Emily Claros	Jarod Lopez
118	Preventing Wrong Work Item Retrieval in LLM-Based MCP Systems Through Multi-Agent Validation	Burcu Gokbulut	Burcu Gokbulut
119	Hybrid Damping Strategies with Buckling-Restrained Braces and Viscous Dampers for High-Rise Seismic Protection	Rongchen Qi	Rongchen Qi

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123	An Automated Configuration Verification Framework for Substation Equipment Based on Security Baseline Compliance	Wei Xiong, Wen Zhou, Fei Li, Yachao Zhang, Zhenchuan Liu	Wei Xiong
125	Energy-Efficient Formation Flying of Biomimetic Flapping-Wing Drones: A Case Study on Leader-Follower Topologies with Adaptive Wingbeat Frequency Tuning	Yihan Pei	Yihan Pei
126	Interference Mitigation in Offshore USV Networks: A Hybrid Spread Spectrum and Adaptive Beamforming Approach	Youcai Xu	Youcai Xu
148	Personalized Game Interface Design via AI-Driven User Profiling: A Case Study on Mobile RPG Applications	JIAQING JIN, Yixin Hong	JIAQING JIN
149	Dynamic Deformation Monitoring in Landslide-Prone Areas Using Network-Based RTK-GNSS and UAV Photogrammetry: A Geospatial Data Integration Framework	Junze Gong	Junze Gong
150	Cross-Modal Shape Matching for Aluminum Profile Recognition	Duygu Cakir, Azhar Murzaeva, Resul Tama	Duygu Cakir
156	An Explainable Machine Learning Framework for Network-Based Drug Repurposing Across Neurological Disorders	Akshaj Goel, Nirupma Singh	Akshaj Goel
157	Ethical-Aware Narrative Agents for Responsible Brand Communication: A Framework and Empirical Validation	Oghenerukevwe Juliet Toje, Emeka Emmanuel Oziri, Chukwunonso Ikemba, Itohowo Effiong Charles, Christian Chimezie, Uchenna Ejike, Dunsin Fatuase, Peggy E. Elijah	Oghenerukevwe Juliet Toje
159	ThreatFormer-IDS: Robust Transformer Intrusion Detection with Zero-Day Generalization and Explainable Attribution	SRIKUMAR NAYAK	SRIKUMAR NAYAK
161	An AI-Based Spoken English Evaluation System Using Speech Recognition Technology: A Reproducible Pipeline and Evidence from ArL2Eng	Xiaoyu Yu	Xiaoyu Yu
165	Comparative Evaluation of Different YOLO Architectures for Drone Detection	Muhammad Nadeem	Muhammad Nadeem
171	Governance-Driven Ontology Engineering: A Workflow-Centric Framework for Education Technology Environments	Kaneeka Vidanage, Akshaan Bandara, Dharani Abeysinghe, Sanduni Sathsara, Tharani Kawya, Pasan Maduranga	Kaneeka Vidanage
172	NeurAI Art: Client-side Neural Stylization for Web Navigable 360° Environments	Hana Novakova, Michal Pluhacek	Hana Novakova
173	Explainable Transformer-Based Speech Emotion Recognition Using Benchmark Datasets	Turgut Özseven	Turgut Özseven
182	Sentiment Shift and Narrative Divergence as Early Indicators of Coordinated Influence in Online News Discussions	Artūras Serackis, Dalius Matuzevičius, Gabriela Vdoviak, Henrikas Giedra, Ervinas Gisleris, Tomyslav Sledevič	Gabriela Vdoviak
183	Modelling Eye Mechanics Using Eye-tracking Glasses and Deep Learning	Konstantinos Roumpas, Michalis Xenos	Michalis Xenos
184	Spatiotemporal Convolutions on EEG signal - A Representation Learning Perspective on Efficient and Explainable EEG Classification with Convolutional Neural Nets	Laurits Dixen, Stefan Heinrich, Paolo Burelli	Laurits Dixen
185	Automating Web UI Test Maintenance for Angular Framework Migration Using GitHub Copilot	Aysu Gökkaya Karabulut, Canberk Ünlüer, Merve Nergiz Afatsun	Aysu Gökkaya Karabulut
186	BEAF: Blockchain-Enabled Accountability Framework for High-Assurance Clinical AI	Mersad Rahmati Tabrizi, Amin Karami, Stevena Aleva	Mersad Rahmati Tabrizi
188	Stateful LLM Agents for Autonomous Capture-the-Flag Solving	Amir Amine, Ali Zayat, Samer Saab Jr	Amir Amine

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196	Revenue Forecasting Models from Point-of-Sale Data for Electronic Payment and Money Institutions	Zehra Sude Sari, Ali Can Kunt, Ali Çelik, Feyyaz Kayar, Ceren Ulus, Mehmet Fatih Akay	Zehra Sude Sari
197	Machine Learning–Based Classification and Symptom Forecasting Across the Menopausal Transition Using Longitudinal Self-Reported Data	Aadyaa Vijay, Dr. Anu Prabha	Aadyaa Vijay
198	Architecture-Aware Threat Modeling and Deployment-Time Attack Surface Analysis for LLM-Integrated Applications	Selin Şaşal, Özgu Can	Selin Şaşal
199	When Transformers Fail to Generalize: A Cross-Dataset Study of Acute and Chronic Stroke Lesion Segmentation	Nasim Ahmadzadeh Nobari Azar, Emine Atalay	Emine Atalay
200	Compress to Generalize: Kernel Density–Based Information Bottleneck Regularization in Deep Reinforcement Learning	Pedro Mendes Odilon, Denis Fantinato	Pedro Mendes Odilon
208	Automating Identity and Corporate Authorization in Retail Channels: An AI-Driven Approach for Heterogeneous Document Intelligence	Vedat COSKUN, Busra OZDENIZCI KOSE, Reyhan GOGER, Ozgur COSKUN	Busra OZDENIZCI KOSE
209	AI-Driven Bioinformatics for Deciphering Cyclic RNA Mechanisms in Qingre Huayu Recipe for Cerebral Infarction Therapy	Xianjing Zeng, Jingfeng Zhou, Jinghua Yuan	Xianjing Zeng
210	Using Cloud Computing and Distributed Systems to Improve Accessibility and Scalability of Online Education Platforms	Peiyan Liu, Fei Yang	Peiyan Liu
211	Optimizing Enterprise Information Management through LINUX Operating System Integration in Intelligent Communication Networks	Xueyan Zhong, Xiao Xiao	Xueyan Zhong
212	Mathematical Foundations of Hybrid Models: Using Logistic Regression and K-Means Clustering to Detect Anomalies	Mengqi Jin, Wang Shuang	Mengqi Jin
213	User-Centered Obstacle-Avoidance-based Shared Control Algorithm for an Active Assistive Walker	Muhammad Ishaq, Dario C. Guastella, Giuseppe Sutera, Giovanni Muscato	Muhammad Ishaq
225	Integration of IOT Technologies in Marketing, Logistics and Customer Service Management: A Comparative Analysis Between Bulgaria and EU (2021–2024)	Svetlana Dimitrakieva, Siyka Demirova, Dobromira Ivanova	Dobromira Ivanova
231	Systematic Evaluation of Data Augmentation Strategies for CNN-Based Image Classification	Rifat Kurban, Fatma Cakiroglu, Ali Durmus, Ercan Karakose	Rifat Kurban
233	Plant Leaf Disease Segmentation Using U-Net++: A Comparative Evaluation with Classical Baselines	Vedat Ayaz, Huseyin Cahid Donmez, Burak Samet Varel, Rifat Kurban	Vedat Ayaz
234	Direction-Optimized Ridge Stacked Deep Learning Ensemble For Financial Market Prediction	Raghavendra RA, Prajwal B, Vanamala HR	Raghavendra RA
235	Similarity-Based Bike Station Expansion via Hybrid Denoising Autoencoders	Oluwaleke Yusuf, M. Tsaqif Wismadi, Adil Rasheed	Oluwaleke Yusuf
237	Latency-Aware Speaker Identification in Browser Environments: A Comparative Study of Lightweight vs. Deep Architectures	Burak Samet Varel, Huseyin Cahid Donmez, Vedat Ayaz, Rifat Kurban	Huseyin Cahid Donmez
239	Enactive Social Development: How Children Co-Create Stories in Pretend Play with a Robot	Hideki Kozima	Hideki Kozima
248	The Reinforcing Cycle of AI Disadvantages: A Systematic Review of Job Displacement, Algorithmic Bias, Privacy Erosion, and Global Inequality	Sunil Deupala, Samjhana Shakya, Sulav Dahal, Rama Khadka	Sunil Deupala
249	A Multimodal Framework for Blink Detection: Audio-Anchored Synchronization and Comparative Analysis of EOG and Video Signals	Semanur Pak, Esma Cetinkaya, Mahmut Nedim Ekersular, Ahmet Alkan	Semanur Pak
251	Dynamic analysis of a robot that refuses to tip over	Carmen-Silvia OPRINA, Ciprian RĂCUCIU, Lucian-Ştefăniţă GRIGORE, Radu MOINESCU, Marius-Nicolae NEBANEA	Radu MOINESCU

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254	AI-Driven Security Operations Centers: A Research Landscape Analysis	Aysu İrem Adem, Mahmut Furkan Bakal, Arda Sezen	Aysu İrem Adem
255	Digital Transformation of Industrial Logistics and Its Impact on Marketing Strategy Development: An Integrated Value-Driven Framework	Siyka Demirova, Svetlana Dimitrakieva, Nikolay Sharaliev	Nikolay Sharaliev
258	Community-Aware Graph Learning for Enhanced GNN-Based Recommendation	Jhansi Lakshmi Vighhala, Abinash Pujahari, Rama Ranjan Panda	Jhansi Lakshmi Vighhala
259	A Metric-Based Comparative Evaluation of Unit Test Quality Generated by AI Agents Under Different Prompting Schemes	Kemal Aktaş, Oğuzhan İşleyen	Kemal Aktaş
260	Severity-Aware Dysgraphia Classification via Fusion of Online and Offline Handwriting Features	Khadija Khedr, Moutaz Saleh, Jayakanth Kunhoth, Sumaya Al-Maadeed	Khadija Khedr
261	HERMES: A Lower Limb Exoskeleton for Walking Assistance	Despoina Markoglou, Konstantinos Ampountolas	Konstantinos Ampountolas
262	Comparative Evaluation of Large Language Models on Agile Story Point Estimation	Özgen Erbakan	Özgen Erbakan
263	End-to-End Framework for Real-Time Drone Detection and Alerting Using Lightweight Deep Learning	Orwa Aladaileh, Izz Aldrass, Reem Shtaiwi, Mona Obaisat, Mallak Albarari	Orwa Aladaileh
266	Deep Reinforcement Learning-Based Autonomous Control Architecture for Renewable Energy-Integrated Smart Grids	Koksal Erenturk	Koksal Erenturk
267	Hybrid-Rule and LLM-Based Feature Test Coverage Detection in Industrial SAFE Environments	Aysu Gökkaya Karabulut, Merve Nergiz Afatsun, Canberk Ünlüer	Canberk Ünlüer
268	Benchmarking Reinforcement Learning for Goal-Conditioned Robotic Pushing: Tiered-Difficulty Protocols	Filip Matas, Darius Rusinak, Ivan Virgala	Ivan Virgala
270	A Multimodal Emotion-Aware Product Recommendation System Integrating Real-Time Facial Expression Recognition and Sentiment Analysis	Mouleeswaran Shanuga, Tenushi Erandi, Alan Steve Amath	Mouleeswaran Shanuga
271	Development of a Geometric Model of Symmetric Binary Fractal Trees and Application in Furniture Design	Shahzoda Anarova, Saodat Ismailova, Elyor Saidkulov, Maftuna Ismoilova, Nodira Malikova	Saodat Ismailova
272	ECSNet: Efficient Cross-Attentive Swin Network for Magnification-Independent Multiclass Breast Cancer Histopathology Classification	Zahra Golrizkhatami, Shahram Taheri	Zahra Golrizkhatami
273	Energy-Aware Model Training for Green AI: An Empirical Analysis of Architectural Topologies and CPU-GPU Trade-offs	Zainab Al-Zanbouri, Ayman Ibrahim	Zainab Al-Zanbouri
283	IoT Driven User-Centered Privacy Protection From Smart Home Assistant Devices	MD Nashid Anjum, Nagarani Gopalakrishnan	Nagarani Gopalakrishnan
287	Research on GPU-Accelerated L2 Regularization Optimization Techniques in Deep Learning and a Comprehensive Analysis of Their Impact on Model Generalization Error	Tong Zhao	Tong Zhao
289	On-Device AI for Mold Detection: Supporting Food Safety for the Visually Impaired People	Josef Chaloupka, Karel Paleček	Josef Chaloupka
291	Intelligent Industrial Power Demand Forecasting Using Bidirectional LSTM Networks	Reza Hassanian, Ingolfur Hjorleifsson, Morris Riedel	Reza Hassanian
292	Intelligent Context Aware Visual Assistance with Real-Time Object Detection Using Deep Learning-	Farid Hinostraza, Raul Ventura, Deisy Acosta	Farid Hinostraza
293	A Unified Prognostic Data Architecture for Risk Stratification in Pediatric Acute Lymphoblastic Leukemia	Utku Kose, Osman Ceylan, Emine Betul Surucu	Utku Kose
294	From Waste Tracking to Circular Intelligence: A Digital Platform for Healthcare Waste Management	Faisal Issa , Abdulla Adawi, Anas Nazzal, Ahmad Al Hyari, Muhammed Humais, Husain Rupawalla, Dua Weraikat	Faisal Issa

ID	Title	Author(s)	Speaker
298	Modeling the Influence of Socio-Economic Development Factors on the Higher Education System	Olena Rayevnyeva, Kostyantyn Stryzhychenko, Olha Brovko	Kostyantyn Stryzhychenko
299	Sample-Efficient Multi-Objective Optimization of Induction Motors using Bayesian Optimization	Nico Schmauch, Nikita Vernergold, Michael Fister, Christian Speiker	Nico Schmauch
300	Visual Task Modeling and Automated Planning for Humanoid Robots in Education of Individuals with Autism Spectrum Disorder	Lada Kudláčková	Lada Kudláčková
301	High-Frequency-Link Assisted 11-Level Packed U-Cell Inverter with Dynamic Switched Rectifier	Hasan Hataş, Kenan Gürçam, Erdoğan Özel	Hasan Hataş
302	Estimating Damage Caused by Natural Disasters using Deep Learning Methods on the xBD Dataset	Md. Rifat Ahmed, Rezwan-Ul- Alam, Mohammed Rakibul Hasan, Shahnewaz Siddique	Md. Rifat Ahmed
307	Stability-Aware Aggregation for Binary Federated Learning in the Presence of Noisy Client Data	Ayşe Şerbetçi	Ayşe Şerbetçi
308	ANALYSIS OF THE ROBUSTNESS AND SENSITIVITY OF DEEP LEARNING MODELS FOR AUTOMATIC TARGET RECOGNITION	Wael Bouchaala, Hichem Frigui	Wael Bouchaala
312	Prediction of Feelings in Individuals with Eating Disorders Using Physiological Signals	Mahdi Hammami, Hichem Frigui, Christina Ralph-Nearman, Andrew Karem	Mahdi Hammami
313	Rethinking Generalization in Cognitive AI: Neural Networks Evidence from Social Subgroups	Corina Ilinca	Corina Ilinca
314	Explainable Image Classifiers for Automating Organ-on-a-Chip Pipeline	Ilze Ivanova, Maksims Ivanovs	Ilze Ivanova
318	Utilizing AI-Powered Channel Coding Techniques to Enhance the Delivery of Lingnan Cultural Content in Communication Systems	Deran Jin, Dong Wu	Deran Jin
320	Explainable Tabular Deep Learning for Network Anomaly Detection: A Comparative Study of AutoInt and DANet Architectures	Burçak Asal	Burçak Asal
321	Health Status Prediction Supported by Explainable Machine Learning: A Voting Regression Analysis with SHAP and LIME	Burçak Asal	Burçak Asal
323	Subject-Independent Attention State Decoding from Ear-EEG Using Multivariate Spectral Dynamics	Mehmet Akif Cenber, Esmâ Cetinkaya, Ahmet Alkan	Mehmet Akif Cenber
324	Metaheuristic Weight Optimization of DGKC-A* for Performance-Driven Autonomous Vehicle Planning	Hüseyin Can Azmanoğlu, Oğuzhan Karahan	Hüseyin Can Azmanoğlu
325	Facial Emotion Recognition using Action Units-based Machine Learning	Manuel Amir Freer Valdez, Ioana Ghergulescu, Arghir-Nicolae Moldovan	Manuel Amir Freer Valdez
327	A Hybrid CNN–LSTM Framework for Crowd Density Estimation and Anomaly Detection in Surveillance Systems	Madhav Theeng Tamang, Michael Ademola Anthony, Mhd Saeed Sharif	Mhd Saeed Sharif
328	Explaining Individual Unfairness with Surrogate Decision Trees	Sašo Karakatič, Nejc Mlinaric, Ivona Colakovic	Sašo Karakatič
329	Sentry: Efficient Real-Time Weapon Detection on Edge-Mobile Platforms	SANDRO ALARCON, ELIO NAVARRETE, JULIO ELSNER	SANDRO ALARCON
331	Acoustic Feature-Based Laryngeal Voice Disorder Classification Using Machine Learning and Statistical Comparison	Safa Enes Türkoğlu, Turgut Özseven	Safa Enes Türkoğlu

Technical Program

Friday, April 24, 2026			
Time (GMT+2)	In-person	Virtual	
	Hall: Great Room	ROOM 1	ROOM 2
9:00 AM - 10:30 AM	PARALLEL SESSION - IPS1 Chair: Konstantinos Ampountolas	PARALLEL SESSION - VS1 Chair: Ebubekir Yasar	PARALLEL SESSION - VS2 Chair: Oguzhan Pektezel
10:30 AM - 11:00 AM	Coffee Break		
11:00 AM - 12:30 PM	PARALLEL SESSION - IPS2 Chair: Josef Chaloupka		
12:30 PM - 01:30 PM	Lunch		
01:30 PM - 03:30 PM	PARALLEL SESSION - IPS3 Chair: Rifat Kurban	PARALLEL SESSION - VS3 Chair: Ebubekir Yasar	PARALLEL SESSION - VS4 Chair: Oguzhan Pektezel
03:30 PM - 04:00 PM	Coffee Break		
04:00 PM - 06:00 PM	PARALLEL SESSION - IPS4 Chair: Koksal Erenturk		

Saturday, April 25, 2026			
Time (GMT+2)	In-person	Virtual	
	Hall: Great Room	ROOM 1	ROOM 2
9:00 AM - 11:00 AM	PARALLEL SESSION - IPS5 Chair: Hideki Kozima	PARALLEL SESSION - VS6 Chair: Ebubekir Yasar	PARALLEL SESSION - VS7 Chair: Oguzhan Pektezel
11:00 AM - 12:30 PM			PARALLEL SESSION - VS8 Chair: Ebubekir Yasar
			PARALLEL SESSION - VS9 Chair: Oguzhan Pektezel
12:30 PM - 01:30 PM	Lunch		
01:30 PM - 02:00 PM	Invited Talk - Virtual (ROOM 2) Dr. Korhan Cengiz <i>Artificial Intelligence for Next Generation Telecommunications Systems</i>		
02:00 PM - 03:30 PM			PARALLEL SESSION - VS10 Chair: Ebubekir Yasar
			PARALLEL SESSION - VS11 Chair: Oguzhan Pektezel
03:30 PM - 04:00 PM	Coffee Break		
04:00 PM - 06:00 PM			PARALLEL SESSION - VS12 Chair: Ebubekir Yasar

PARALLEL SESSION - IPS1	HALL: GREAT ROOM
Date: Friday, April 24, 2026	Time (GMT+2): 9:00 AM - 10:30 AM
Chair: Konstantinos Ampountolas	Presentation Format: IN-PERSON
261 - HERMES: A Lower Limb Exoskeleton for Walking Assistance	Despoina Markoglou, Konstantinos Ampountolas
102 - The Interactive Emergence of Word Order: A Model of Cognitive Biases, Social Networks, and Cultural Transmission	Burcu Çınar
173 - Explainable Transformer-Based Speech Emotion Recognition Using Benchmark Datasets	Turgut Özseven
46 - Bridging the Gap: An Agentic AI Framework for Reverse-Engineering Automated Test Scripts into Natural Language Requirements	Furkan Bodur
150 - Cross-Modal Shape Matching for Aluminum Profile Recognition	Duygu Cakir , Azhar Murzaeva, Resul Tama
268 - Benchmarking Reinforcement Learning for Goal-Conditioned Robotic Pushing: Tiered-Difficulty Protocols	Filip Matas, Darius Rusinak, Ivan Virgala

PARALLEL SESSION - VS1	ROOM 1
Date: Friday, April 24, 2026	Time (GMT+2): 9:00 AM - 10:30 AM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
37 - Diabetic Retinopathy Classification with EfficientNetB0 Model with Attention Mechanism: An Approach on OCT Images	Fatma Nur Ortataş, Zeliha Açıkğöz, Ayça Dolar
199 - When Transformers Fail to Generalize: A Cross-Dataset Study of Acute and Chronic Stroke Lesion Segmentation	Nasim Ahmadzadeh Nobari Azar, Emine Atalay
103 - StoryCheck: A Scalable Framework for Automated Evaluation of Creative Writing using AI Agents	Lanre Shittu , Michael Akintayo, Akinyemi Arabambi, Fatimat Okeleye, Onome Laura Owah, Olusegun Akinfenwa, Ajibola Olajide-Shokunbi, Babatunde Solomon Jaiyesimi, Oluwole Fagbohun, Raheemat Adetola Adetunji
331 - Acoustic Feature-Based Laryngeal Voice Disorder Classification Using Machine Learning and Statistical Comparison	Safa Enes Türkoğlu , Turgut Özseven
55 - Scalable Big Data Analytics for Social Media Sentiment Mining: A Multi-Algorithm Framework Applied to COP29 Climate Discourse	Oluwole Fagbohun , Ifeoluwa Wuraola, Sadeeq Akintola, Nelson Ogbeide, Ilemona Abutu, Temitope Kadri, Joshua Obodai, Anuoluwapo Gabriel, Bisola Kayode, Okiki-Jesu Timothy Olumide, Peter Adetola Adetunji, Mgbame Michael, Chukwuka Michael Oforgu, Olanrewaju Odunowo, Tewogbade Shakir, David Uno
254 - AI-Driven Security Operations Centers: A Research Landscape Analysis	Aysu İrem Adem , Mahmut Furkan Bakal, Arda Sezen
196 - Revenue Forecasting Models from Point-of-Sale Data for Electronic Payment and Money Institutions	Zehra Sude Sarı , Ali Can Kunt, Ali Çelik, Feyyaz Kayar, Ceren Ulus, Mehmet Fatih Akay
30 - Gaussian Regression Process Modeling of Bioconvective Nanofluid Flow in a Magnetically Driven Square Cavity	Yirmili Ummuhan , Pekmen Bengisen, Gurbuz Caldag Merve

PARALLEL SESSION - VS2	ROOM 2
Date: Friday, April 24, 2026	Time (GMT+2): 9:00 AM - 10:30 AM
Chair: Oguzhan Pektezel	Presentation Format: VIRTUAL
260 - Severity-Aware Dysgraphia Classification via Fusion of Online and Offline Handwriting Features	Khadija Khedr , Moutaz Saleh, Jayakanth Kunhoth, Sumaya Al-Maadeed
186 - BEAF: Blockchain-Enabled Accountability Framework for High-Assurance Clinical AI	Mersad Rahmati Tabrizi , Amin Karami, Stevena Aleva
125 - Energy-Efficient Formation Flying of Biomimetic Flapping-Wing Drones: A Case Study on Leader-Follower Topologies with Adaptive Wingbeat Frequency Tuning	Yihan Pei
298 - Modeling the Influence of Socio-Economic Development Factors on the Higher Education System	Olena Rayevnyeva, Kostyantyn Stryzhychenko , Olha Brovko
313 - Rethinking Generalization in Cognitive AI: Neural Networks Evidence from Social Subgroups	Corina Ilinca
149 - Dynamic Deformation Monitoring in Landslide-Prone Areas Using Network-Based RTK-GNSS and UAV Photogrammetry: A Geospatial Data Integration Framework	Junze Gong
255 - Digital Transformation of Industrial Logistics and Its Impact on Marketing Strategy Development: An Integrated Value-Driven Framework	Siyka Demirova, Svetlana Dimitrakieva, Nikolay Sharaliev

PARALLEL SESSION - IPS2	HALL: GREAT ROOM
Date: Friday, April 24, 2026	Time (GMT+2): 11:00 AM - 12:30 PM
Chair: Josef Chaloupka	Presentation Format: IN-PERSON
237 - Latency-Aware Speaker Identification in Browser Environments: A Comparative Study of Lightweight vs. Deep Architectures	Burak Samet Varel, Huseyin Cahid Donmez , Vedat Ayaz, Rifat Kurban
184 - Spatiotemporal Convolutions on EEG signal - A Representation Learning Perspective on Efficient and Explainable EEG Classification with Convolutional Neural Nets	Laurits Dixen , Stefan Heinrich, Paolo Burelli
299 - Sample-Efficient Multi-Objective Optimization of Induction Motors using Bayesian Optimization	Nico Schmauch , Nikita VernerGold, Michael Fister, Christian Spieker
235 - Similarity-Based Bike Station Expansion via Hybrid Denoising Autoencoders	Oluwaleke Yusuf , M. Tsaqif Wismadi, Adil Rasheed
291 - Intelligent Industrial Power Demand Forecasting Using Bidirectional LSTM Networks	Reza Hassanian , Ingolfur Hjorleifsson, Morris Riedel
289 - On-Device AI for Mold Detection: Supporting Food Safety for the Visually Impaired People	Josef Chaloupka , Karel Paleček

PARALLEL SESSION - VS3	ROOM 1
Date: Friday, April 24, 2026	Time (GMT+2): 01:30 PM - 03:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
118 - Preventing Wrong Work Item Retrieval in LLM-Based MCP Systems Through Multi-Agent Validation	Burcu Gokbulut
267 - Hybrid-Rule and LLM-Based Feature Test Coverage Detection in Industrial SAFe Environments	Aysu Gökkaya Karabulut, Merve Nergiz Afatsun, Canberk Ünlüer
233 - Plant Leaf Disease Segmentation Using U-Net++: A Comparative Evaluation with Classical Baselines	Vedat Ayaz , Huseyin Cahid Donmez, Burak Samet Varel, Rifat Kurban
287 - Research on GPU-Accelerated L2 Regularization Optimization Techniques in Deep Learning and a Comprehensive Analysis of Their Impact on Model Generalization Error	Tong Zhao
259 - A Metric-Based Comparative Evaluation of Unit Test Quality Generated by AI Agents Under Different Prompting Schemes	Kemal Aktaş , Oğuzhan İşleyen
262 - Comparative Evaluation of Large Language Models on Agile Story Point Estimation	Özgen Erbakan

PARALLEL SESSION - VS4	ROOM 2
Date: Friday, April 24, 2026	Time (GMT+2): 01:30 PM - 03:30 PM
Chair: Oguzhan Pektezel	Presentation Format: VIRTUAL
293 - A Unified Prognostic Data Architecture for Risk Stratification in Pediatric Acute Lymphoblastic Leukemia	Utku Kose , Osman Ceylan, Emine Betül Surucu
324 - Metaheuristic Weight Optimization of DGKC-A* for Performance-Driven Autonomous Vehicle Planning	Hüseyin Can Azmanoğlu , Oğuzhan Karahan
208 - Automating Identity and Corporate Authorization in Retail Channels: An AI-Driven Approach for Heterogeneous Document Intelligence	Vedat Coskun, Busra Ozdenizci Kose , Reyhan Goger, Ozgur Coskun
82 - Revisiting Day-Ahead Electricity Load Forecasting: The Effectiveness of Chronos Zero-Shot Models	İlayda Kaptan , İlayda Özge Aksu, Sina Ghaemi, Amjad Anvari-Moghaddam
263 - End-to-End Framework for Real-Time Drone Detection and Alerting Using Lightweight Deep Learning	Orwa Aladaileh , Izz Aldrass, Reem Shtaiwi, Mona Obaisat, Mallak Albarari
59 - Enterprise Digital Management Strategy under the Data Lake Architecture: Multi-Dimensional Management Covering Data Quality, Security, and Compliance	Liyong Liao
225 - Integration of IOT Technologies in Marketing, Logistics and Customer Service Management: A Comparative Analysis Between Bulgaria and EU (2021–2024)	Svetlana Dimitrakieva, Siyka Demirova, Dobromira Ivanova
318 - Utilizing AI-Powered Channel Coding Techniques to Enhance the Delivery of Lingnan Cultural Content in Communication Systems	Deran Jin , Dong Wu

PARALLEL SESSION - IPS3		HALL: GREAT ROOM
Date: Friday, April 24, 2026		Time (GMT+2): 01:30 PM - 03:30 PM
Chair: Rifat Kurban		Presentation Format: IN-PERSON
182 - Sentiment Shift and Narrative Divergence as Early Indicators of Coordinated Influence in Online News Discussions	Artūras Serackis, Dalius Matuzevičius, Gabriela Vdoviak , Henrikas Giedra, Ervinas Gisleris, Tomyslav Sledevič	
185 - Automating Web UI Test Maintenance for Angular Framework Migration Using GitHub Copilot	Aysu Gökkaya Karabulut , Canberk Ünlüer, Merve Nergiz Afatsun	
328 - Explaining Individual Unfairness with Surrogate Decision Trees	Sašo Karakatič , Nejc Mlinarič, Ivona Colakovic	
101 - Agentic Narrative Generation: Personalised Storytelling for Brand Communication	Oluwaseun, Adepegba , Shirley Ugwa, Oluwole Ilesanmi, Oghenerukevwe Juliet Toje, Francis Umo, Victor Chukwuemeka Mbachu, Lanre Shittu, Christian Chimezie, Babatunde Solomon Jaiyesimi	
83 - Analyzing Eco-Innovation Performance with Tree-Based Machine Learning and SHAP Analysis	Miraç Tuba ÇELİK , Asude DEMİR, Yunus DEMİR, Aytaç YILDIZ	
301 - High-Frequency-Link Assisted 11-Level Packed U-Cell Inverter with Dynamic Switched Rectifier	Hasan Hataş , Kenan Gürçam, Erdoğan Özel	
231 - Systematic Evaluation of Data Augmentation Strategies for CNN-Based Image Classification	Rifat Kurban , Fatma Cakiroglu, Ali Durmus, Ercan Karakose	
PARALLEL SESSION - IPS4		HALL: GREAT ROOM
Date: Friday, April 24, 2026		Time (GMT+2): 4:00 PM - 06:00 PM
Chair: Koksal Erenturk		Presentation Format: IN-PERSON
252 - Extending and Operationalizing Biomedical Principlism for Medical AI Governance	Kassem Saleh	
213 - User-Centered Obstacle-Avoidance-based Shared Control Algorithm for an Active Assistive Walker	Muhammad Ishaq , Dario C. Guastella, Giuseppe Sutera, Giovanni Muscato	
327 - A Hybrid CNN-LSTM Framework for Crowd Density Estimation and Anomaly Detection in Surveillance Systems	Madhav Theeng Tamang, Michael Ademola Anthony, Mhd Saeed Sharif	
105 - A Comparative Study of Machine Learning for Detecting Suspicious Student Behaviors in Online Examinations	Beyza Esin Ozseven , Turgut Özseven	
26 - Health Practitioners' Encouragement to Apply Artificial Intelligence Technologies in Health Services	Saad Alsaleh , Talal Alzabni, Maram Alawad	
266 - Deep Reinforcement Learning-Based Autonomous Control Architecture for Renewable Energy-Integrated Smart Grids	Koksal Erenturk	
PARALLEL SESSION - VS5		ROOM 2
Date: Friday, April 24, 2026		Time (GMT+2): 4:00 PM - 06:30 PM
Chair: Oguzhan Pektezel		Presentation Format: VIRTUAL
47 - Dual Stream Attention Fusion Network Based on Physical Information (DSAF-Net): Research on Automated Quantitative Mineralogy and Mechanical Property Prediction for Rocks	Jiaxing Sun , Feng Chen	
188 - Stateful LLM Agents for Autonomous Capture-the-Flag Solving	Amir Amine , Ali Zayat, Samer Saab Jr	
308 - Analysis of the Robustness and Sensitivity of Deep Learning Models for Automatic Target Recognition	Wael Bouchaala , Hichem Frigui	
272 - ECSNet: Efficient Cross-Attentive Swin Network for Magnification-Independent Multiclass Breast Cancer Histopathology Classification	Zahra Golrizkhatami , Shahram Taheri	
117 - Comparative Analysis of Supervised Learning Models in Identifying Parkinson's Disease Patients Using Prodromal Symptoms	Galathara Kahanda, Jarod Lopez , Emily Claros	

45 - Enterprise AI Upskilling via Synthetic Workforce Simulation of Cognitive Learning States	Claudio Ricci , Rolands Repetto, Marzio Lunghi, Stefania Stan
27 - AI-Driven Test Case Generation Using Retrieval- Augmented Enterprise Knowledge	Rajesh Kumar , Shweta Padhy
283 - AIoT Driven User-Centered Privacy Protection From Smart Home Assistant Devices	MD Nashid Anjum, Nagarani Gopalakrishnan
157 - Ethical-Aware Narrative Agents for Responsible Brand Communication: A Framework and Empirical Validation	Oghenerukevwe Juliet Toje , Emeka Emmanuel Oziri, Chukwunonso Ikemba, Itohowo Effiong Charles, Christian Chimezie, Uchenna Ejike, Dunsin Fatuase, Peggy E. Elijah
48 - Smart Sports App Design and Development: With the Digital Enabling National Fitness Behavior Change as the Core	Qian Chen

PARALLEL SESSION - IPS5	HALL: GREAT ROOM
Date: Saturday, April 25, 2026	Time (GMT+2): 9:00 AM - 11:00 AM
Chair: Hideki Kozima	Presentation Format: IN-PERSON
5 - Zero-Shot Environmental Sustainability Text Classification Based on an Adapted Bechdel Test Using LLMs	Selin Büyüктаş, Pelin Büyüктаş
198 - Architecture-Aware Threat Modeling and Deployment-Time Attack Surface Analysis for LLM-Integrated Applications	Selin Şaşal , Özgu Can
172 - NeurAI Art: Client-side Neural Stylization for Web Navigable 360° Environments	Hana Novakova , Michal Pluhacek
200 - Compress to Generalize: Kernel Density-Based Information Bottleneck Regularization in Deep Reinforcement Learning	Pedro Mendes Odilon , Denis Fantinato
88 - GPT-Eval: A Unified Evaluation Framework for Tools and Text Responses	Farhana Kabir, Tabassum Islam , Per Bækgaard, Mohammadreza Fani Sani
99 - Multi-Agent Reasoning Framework for Consumer Sentiment Intelligence	Francis Umo , Oluwaseun, Adepegba, Eneremadu Nnadozie Anthony, Okwuchi Uzoigwe, Onyekachukwu Orji, Shirley Ugwa, Adewole Akinyemi Ampitan, Victor Chukwuemeka Mbachu, Oluwole Ilesanmi
300 - Visual Task Modeling and Automated Planning for Humanoid Robots in Education of Individuals with Autism Spectrum Disorder	Lada Kudláčková
239 - Enactive Social Development: How Children Co-Create Stories in Pretend Play with a Robot	Hideki Kozima

PARALLEL SESSION - VS6	ROOM 1
Date: Saturday, April 25, 2026	Time (GMT+2): 9:00 AM - 11:00 AM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
320 - Explainable Tabular Deep Learning for Network Anomaly Detection: A Comparative Study of AutoInt and DANet Architectures	Burçak Asal
321 - Health Status Prediction Supported by Explainable Machine Learning: A Voting Regression Analysis with SHAP and LIME	Burçak Asal
249 - A Multimodal Framework for Blink Detection: Audio-Anchored Synchronization and Comparative Analysis of EOG and Video Signals	Semanur Pak , Esmâ Cetinkaya, Mahmut Nedim Ekersular, Ahmet Alkan
28 - Digital Twin Guided ACT-R Modeling of Dual-Task Timing	Sonay Duman , Behiye Şahin
22 - AI-Based Network Traffic Modeling & Synthetic Data Generation	Ali Berkol

23 - AI-Driven Aerial Base Stations for Adaptive UAV-Based Connectivity	Ali Berkol , İdil Gökçe Demirtaş
57 - Textile Surface Defect Detection under Low False-Alarm Constraints: CNNs and PaDiM	Anday Duru , Eftal Sehirli
94 - Unimodal Speech Emotion Recognition with Signal-to-Image Transformation and Deep Learning on the KTU-MEDAFE Dataset	Betül Mumcu , Bahar Hatipoğlu Yılmaz

PARALLEL SESSION - VS7		ROOM 2
Date: Saturday, April 25, 2026		Time (GMT+2): 9:00 AM - 11:00 AM
Chair: Oguzhan Pektezel		Presentation Format: VIRTUAL
17 - Evaluation of Linear and Nonlinear Correlated Features for Enhanced Heart Disease Classification	Pranav Bharadwaj , Prajwal B, Raghavendra RA, Shruthi M L J	
251 - Dynamic analysis of a robot that refuses to tip over	Carmen-Silvia OPRINA, Ciprian RĂCUCIU, Lucian-Ștefăniță GRIGORE, Radu MOINESCU , Marius-Nicolae NEBANEA	
312 - Prediction of Feelings in Individuals with Eating Disorders Using Physiological Signals	Mahdi Hammami , Hichem Frigui, Christina Ralph-Nearman, Andrew Karem	
210 - Using Cloud Computing and Distributed Systems to Improve Accessibility and Scalability of Online Education Platforms	Peiyan Liu , Fei Yang	
171 - Governance-Driven Ontology Engineering: A Workflow-Centric Framework for Education Technology Environments	Kaneeka Vidanage , Akshaan Bandara, Dharani Abeysinghe, Sanduni Sathsara, Tharani Kawya, Pasan Maduranga	
307 - Stability-Aware Aggregation for Binary Federated Learning in the Presence of Noisy Client Data	Ayşe Şerbetçi	
273 - Energy-Aware Model Training for Green AI: An Empirical Analysis of Architectural Topologies and CPU–GPU Trade-offs	Zainab Al-Zanbouri , Ayman Ibrahim	

PARALLEL SESSION - VS8		ROOM 1
Date: Saturday, April 25, 2026		Time (GMT+2): 11:00 AM - 12:30 PM
Chair: Ebubekir Yasar		Presentation Format: VIRTUAL
294 - From Waste Tracking to Circular Intelligence: A Digital Platform for Healthcare Waste Management	Faisal Issa , Abdulla Adawi, Anas Nazzal, Ahmad Al Hyari, Muhammed Humais, Husain Rupawalla, Dua Weraikat	
258 - Community-Aware Graph Learning for Enhanced GNN-Based Recommendation	Jhansi Lakshmi Vighhala , Abinash Pujahari, Rama Ranjan Panda	
271 - Development of a Geometric Model of Symmetric Binary Fractal Trees and Application in Furniture Design	Shahzoda Anarova, Saodat Ismailova , Elyor Saidkulov, Maftuna Ismoilova, Nodira Malikova	
292 - Intelligent Context Aware Visual Assistance with Real-Time Object Detection Using Deep Learning-	Farid Hinostroza , Raul Ventura, Deisy Acosta	
119 - Hybrid Damping Strategies with Buckling-Restrained Braces and Viscous Dampers for High-Rise Seismic Protection	Rongchen Qi	
161 - An AI-Based Spoken English Evaluation System Using Speech Recognition Technology: A Reproducible Pipeline and Evidence from ArL2Eng	Xiaoyu Yu	
197 - Machine Learning–Based Classification and Symptom Forecasting Across the Menopausal Transition Using Longitudinal Self-Reported Data	Aadyaa Vijay , Dr. Anu Prabha	

PARALLEL SESSION - VS9	ROOM 2
Date: Saturday, April 25, 2026	Time (GMT+2): 11:00 AM - 12:30 PM
Chair: Oguzhan Pektezel	Presentation Format: VIRTUAL
25 - The Silent Erosion of Governance: Unmasking the Suppression Effect of AI Catastrophizing on Public Trust via Hierarchical SEM	Panagiotis Tsarouhas , Konstantinos Grigoriadis
302 - Estimating Damage Caused by Natural Disasters using Deep Learning Methods on the xBD Dataset	Md. Rifat Ahmed , Rezwan-UI- Alam, Mohammed Rakibul Hasan, Shahnewaz Siddique
270 - A Multimodal Emotion-Aware Product Recommendation System Integrating Real-Time Facial Expression Recognition and Sentiment Analysis	Mouleeswaran Shanuga , Tenushi Erandi, Alan Steve Amath
329 - Sentry: Efficient Real-Time Weapon Detection on Edge-Mobile Platforms	Sandro Alarcon , Elio Navarrete, Julio Elsner
148 - Personalized Game Interface Design via AI-Driven User Profiling: A Case Study on Mobile RPG Applications	Jiaqing Jin , Yixin Hong
234 - Direction-Optimized Ridge Stacked Deep Learning Ensemble For Financial Market Prediction	Raghavendra RA , Prajwal B, Vanamala HR
248 - The Reinforcing Cycle of AI Disadvantages: A Systematic Review of Job Displacement, Algorithmic Bias, Privacy Erosion, and Global Inequality	Sunil Deupala , Samjhana Shakya, Sulav Dahal, Rama Khadka

INVITED TALK SESSION	ROOM 2
Date: Saturday, April 25, 2026	Time (GMT+2): 01:30 PM - 02:00 PM
Chair: Oguzhan Pektezel	Presentation Format: VIRTUAL
Invited Talk Dr. Korhan Cengiz <i>Artificial Intelligence for Next Generation Telecommunications Systems</i>	

PARALLEL SESSION - VS10	ROOM 1
Date: Saturday, April 25, 2026	Time (GMT+2): 02:00 PM - 03:30 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
325 - Facial Emotion Recognition using Action Units-based Machine Learning	Manuel Amir Freer Valdez , Ioana Ghergulescu, Arghir-Nicolae Moldovan
314 - Explainable Image Classifiers for Automating Organ-on-a-Chip Pipeline	Ilze Ivanova , Maksims Ivanovs
123 - An Automated Configuration Verification Framework for Substation Equipment Based on Security Baseline Compliance	Wei Xiong , Wen Zhou, Fei Li, Yachao Zhang, Zhenchuan Liu
91 - AI-Powered Attack Surface Discovery: Analyzing SSL Pinning Bypass Capabilities with an LLM-Based Model	Hüseyin Enes Okutan , Muhammet Baykara, Engin Avci
212 - Mathematical Foundations of Hybrid Models: Using Logistic Regression and K-Means Clustering to Detect Anomalies	Mengqi Jin , Wang Shuang
20 - Integrating AI and IoT (AllIoT) for Modern Traffic Systems	Rotimi-Williams Bello , Roseline Ogundokun, Pius Adewale Owolawi, Etienne Van Wyk, Chunling Du, Odunayo Imoru
33 - Resistance and Care: Co-Creating Secure Telehealth Practices Between Humans and AI in Surveillance Societies	Saket Ganti
32 - Decoding the Neural Architecture of AI-Mediated Mental Healthcare: A Paradigm Shift in Telehealth and Cognitive Neuroscience	Saket Ganti

PARALLEL SESSION - VS11	ROOM 2
Date: Saturday, April 25, 2026	Time (GMT+2): 02:00 PM - 03:30 PM
Chair: Oguzhan Pektezel	Presentation Format: VIRTUAL
165 - Comparative Evaluation of Different YOLO Architectures for Drone Detection	Muhammad Nadeem
156 - An Explainable Machine Learning Framework for Network-Based Drug Repurposing Across Neurological Disorders	Akshaj Goel , Nirupma Singh
159 - ThreatFormer-IDS: Robust Transformer Intrusion Detection with Zero-Day Generalization and Explainable Attribution	Srikumar Nayak
112 - Smart Material Systems in Intelligent Robotic Automation: A Bibliometric Review of Sensor–Actuator Integration, Intelligent Control and Soft Robotics	Roseline Ogundokun , Rotimi-Williams Bello, Pius Adewale Owolawi, Chunling Du, Etienne Van Wyk
183 - Modelling Eye Mechanics Using Eye-tracking Glasses and Deep Learning	Konstantinos Roumpas, Michalis Xenos
148 - Personalized Game Interface Design via AI-Driven User Profiling: A Case Study on Mobile RPG Applications	Jiaqing Jin , Yixin Hong
211 - Optimizing Enterprise Information Management through LINUX Operating System Integration in Intelligent Communication Networks	Xueyan Zhong , Xiao Xiao
116 - PRDTrace: A GenAI-Powered Tool for Automated Requirements-to-Code Traceability Analysis	Sri Tejaswi Gattupalli , Bhavya Paliwal