



4th Cognitive Models and Artificial Intelligence Conference

CONFERENCE PROGRAM

www.ai-conf.com

April 24-25, 2026, Prague-Czech Republic

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	/	PARALLEL SESSION - VS5 Chair: Oguzhan Pektezel

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
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 Açıköz, 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 Pektezeli	Presentation Format: VIRTUAL
293 - A Unified Prognostic Data Architecture for Risk Stratification in Pediatric Acute Lymphoblastic Leukemia	Utku Kose , Osman Ceylan, Emine Betul 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 , İnayet 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
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
328 - Explaining Individual Unfairness with Surrogate Decision Trees	Sašo Karakatič , Nejc Mlinaric, Ivona Colakovic
213 - User-Centered Obstacle-Avoidance-based Shared Control Algorithm for an Active Assistive Walker	Muhammad Ishaq , Dario C. Guastella, Giuseppe Sutura, 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
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 - V55	ROOM 2
Date: Friday, April 24, 2026	Time (GMT+2): 4:00 PM - 06:30 PM
Chair: Oguzhan Pektezeli	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	Jiaying 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	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 - IPSS	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-Ştefăniţă GRIGORE, Radu MOINESCU , Marius-Nicolae NEBANEA
329 - Sentry: Efficient Real-Time Weapon Detection on Edge-Mobile Platforms	Sandro Alarcon , Elio Navarrete, Julio Elsner
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 - Smart Circular Economy 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 Hinoestroza, 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 Avcı
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 (AlloT) 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

PARALLEL SESSION - VS12	ROOM 1
Date: Saturday, April 25, 2026	Time (GMT+2): 04:00 PM - 06:00 PM
Chair: Ebubekir Yasar	Presentation Format: VIRTUAL
209 - AI-Driven Bioinformatics for Deciphering Cyclic RNA Mechanisms in Qingre Huayu Recipe for Cerebral Infarction Therapy	Xianjing Zeng , Jingfeng Zhou, Jinghua Yuan
63 - Gamma2Patterns: Deep Cognitive Attention Region Identification and Gamma-Alpha Pattern Analysis	Sobhana Jahan , Saydul Akbar Murad, Nick Rahimi, Noorbakhsh Amiri Golilarz
35 - Neuro-Oscillatory Generative Architecture: A Modular Brain-Inspired Framework for Creative AI and Hypothesis Generation	Saket Ganti
210 - Using Cloud Computing and Distributed Systems to Improve Accessibility and Scalability of Online Education Platforms	Peiyan Liu , Fei Yang
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 Alruwaih, Lina Momani
122 - A Doctor Dialogue Model Based on Vector Quantisation	Xiaoyu Chen
323 - Subject-Independent Attention State Decoding from Ear-EEG Using Multivariate Spectral Dynamics	Mehmet Akif Cenber , Esmâ Cetinkaya, Ahmet Alkan
148 - Personalized Game Interface Design via AI-Driven User Profiling: A Case Study on Mobile RPG Applications	Jiaqing Jin , Yixin Hong
126 - Interference Mitigation in Offshore USV Networks: A Hybrid Spread Spectrum and Adaptive Beamforming Approach	Youcai Xu