

Computer Science Students Conference 2026
June 26, 2026
CLUJ-NAPOCA, ROMANIA

| 9:00 – 9:15 – Deschidere Sala Aula – Cladirea HUB UTCN / Et. 3 | | | |
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| 14.15 - Premiere (SCSS-2026) Sala Aula - Cladirea HUB UTCN / Et.3 | | | |
| Panel 1, Sala BT5_01 Gheorghe Sebestyen, Ioan Mircea-Gabriel UTCN, Str. Gheorghe Baritiu, Nr. 8, Cluj Napoca | | Panel 2, Sala BT5_02 Calin Cenan, Iulian Benta UTCN, Str. Gheorghe Baritiu, Nr. 8, Cluj Napoca | |
| 9:15 – 9:30 | <i>Abonoub Masoud Nageh Youssef</i> , Comprehensive Comparison of Machine Learning and Deep Learning Models for Network Intrusion Detection with Hierarchical Classification, UTCN | 9:15 – 9:30 | <i>Adina-Ionela Jarda</i> , Bone Fracture Detection in X-Ray Images Using Deep Learning Methods, UTCN |
| 9:30 – 9:45 | <i>Mihai-Bogdan Deaconu</i> , TopoCurve: Geometry-Aware Topology Reasoning via Bézier Curves in Autonomous Driving, UBB | 9:30 – 9:45 | <i>Diana-Georgiana Drăgușin</i> , A Comparative Analysis of Visual Imperceptibility and Statistical Detectability in AI-Generated vs. Natural Covers, UBB |
| 9:45 – 10:00 | <i>Alexandrina-Ruxandra Sebes</i> , LLM-based Personalized Nutrition Management and Human in-the-Loop Validation, UTCN | 9:45 – 10:00 | <i>Alexandru Craciun</i> , WmiTrace: Attributing WMI Based Operations to the Originating Process, UTCN |
| 10:00 – 10:15 | <i>Ana-Ștefania Kogălniceanu</i> , From Pixels to Predictions: Estimating 3D Reconstruction Quality in Under-Ice Environments, UBB | 10:00 – 10:15 | <i>Emanuela-Coralia Toda-Puiuuleț</i> , RoAD: A Romanian Accounting Document Dataset and a Multi-SLM Pipeline for Privacy-Preserving Information Extraction, UBB |
| 10:15 – 10:30 | <i>Alexia Shirazi</i> , Detection and anatomic classification of intracranial aneurysm using deep learning, UTCN | 10:15 – 10:30 | <i>Alina Maria Macavei</i> , Dimensionality Reduction of EEG Data for Cognitive State Classification, UTCN |

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| 10:30 – 10:45 | <i>Klára Orbán</i> , Benchmarking 3D Reconstruction for Aerial Freeboard Mapping in Arctic Environments, UBB | | 10:30 – 10:45 | <i>Mihai Neagoi</i> , Entity linking for biomedical domain using Romanian documents, UBB |
| 10:45 – 11:00 | <i>Ana-Maria Bizga</i> , Astronomical Image Processing for Automatic Star Detection and Constellation Visualization, UTCN | | 10:45 – 11:00 | <i>Stan Ariana-Maria</i> , Simple Yet Effective: Rule-Based Late Fusion for Multimodal Emotion Analysis, UTCN |
| 11:00 – 11:15 | <i>Tudor-Ștefan Ivancea</i> , Local Generation and Visual Validation of Technical Diagrams with QLoRA: A Multi-DSL Benchmark and Proposed Pipeline, UBB | | 11:00 – 11:15 | <i>Denis-Raul Birău</i> , RiftFX: Design and Implementation of a Custom Interpreted Language for Declarative Desktop UI Development, UBB |
| 11:15 – 11:30 | <i>Andrei Truta</i> , Vulnerability Detection in Windows RPC Interfaces via Fuzzing, UTCN | | 11:15 – 11:30 | <i>Raul Flavius Blotor</i> , 2D and 3D Brain Tumor Segmentation with nnU-Net and SwinUNETR, and Radiomics Survival Classification, UTCN |
| 11:30 – 11:45 | <i>Andrei-Eugen Bratu</i> , Serverless function benchmarking across cloud industry leaders, UBB | | 11:30 – 11:45 | <i>Andreea-Ioana Gheorghe</i> , 3D Object Reassembly of Broken Objects using Deep Learning Methods, UBB |
| 11:45 – 12:00 | <i>Bogdan Cristian Marcu</i> , Explainable Transformer Models for Discovering Epilepsy-Specific Connectivity Patterns in EEG Signals, UTCN | | 11:45 – 12:00 | <i>Diana Elena Boitor</i> , A Modular Segmentation-to-Language Pipeline for Traffic Monitoring Scene Understanding: Model Comparison and VLM Grounding on TSP6K, UTCN |
| 12:00 – 12:15 | <i>Camelia-Denisa Sandor</i> , Kalyra: A Voice-Based Emotion-Aware Journaling Application for Personalized Mental Well-Being Support, UBB | | 12:00 – 12:15 | <i>Răzvan-Andrei Bocra</i> , MIDAS: Multi-Layer Invariant Domain Adaptation for Cross-Patient Seizure Detection, UBB |
| 12:15 – 12:30 | <i>Darius Cornoc & Vasile Vlad Moca</i> , Epileptic Seizures Forecasting Through Dynamic Graph Structure Learning and Functional Connectivity, UTCN | | 12:15 – 12:30 | <i>Cristian Ioan Tirziu & Horatiu Andrei Bologna</i> , A Distributed IoT Architecture for Autonomous Bottle Classification: Connectivity-Energy Characterization and Unsupervised Network-Anomaly Detection, UTCN |

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| 12:30 – 12:45 | <i>Andreea Negoïtescu</i> , X-cDiT: Explainable Latent Conditional Diffusion Inpainting with Transformers for Iris Occlusion Removal, UBB | | 12:30 – 12:45 | <i>Sorina-Maria Mane</i> , Multi-Sensor Hardware Entropy Harvester for Cryptographic Password Generation, UBB |
| 12:45 – 13:00 | <i>Dragos Crisan</i> , RansomOpDFA: Behavioral Ransomware Detection Using Deterministic Finite Automata over File-Operation Traces, UTCN | | 12:45 – 13:00 | <i>Alexandru Felix Dumitru</i> , Performance comparison of classic and transformer-based dimensionality reduction techniques on an EEG dataset, UTCN |
| 13:00 – 13:15 | <i>Alexandru-Nicolae Grancea</i> , Fine-tuning Whisper for Romanian ASR and Audio-Based Fact-Checking, UBB | | 13:00 – 13:15 | <i>Tudor-Costin Paraschiv</i> , Automated Urban Road Damage Detection, Segmentation, and Severity Prioritisation from Dashcam Footage, UBB |
| 13:15 – 13:30 | <i>Flavia Adriana Moldovan</i> , Simulation and Analysis of Video over IP Transmission in Virtual Environments Using the EVE-NG Platform, UTCN | | 13:15 – 13:30 | <i>Ioan-Rares Fleseriu</i> , nnU-Net-Based Multi-Organ and Tumor Segmentation from Abdominal CT Images, UTCN |
| 13:30 – 13:45 | <i>Dragoș Trandafir</i> , Exploring Preprocessing and Training Configurations for Lightweight CNN Mammographic Lesion Classification, UBB | | 13:30 – 13:45 | <i>Anca-Elena Magui</i> , EndoXAI: An Explainable Machine Learning Pipeline for Endometriosis Risk Prediction, UBB |

| 9:00 – 9:15 – Deschidere Sala Aula – Cladirea HUB UTCN / Et. 3 | | | | |
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| 14.15 - Premiere (SCSS-2026) Sala Aula - Cladirea HUB UTCN / Et.3 | | | | |
| Panel 3, Sala BT5_03 Cristina Pop, Ioan Daniel Pop UTCN, Str. Gheorghe Baritiu, Nr. 8, Cluj Napoca | | | Panel 4, Sala BT5_04 Mihai Daian, Imre Mali UTCN, Str. Gheorghe Baritiu, Nr. 8, Cluj Napoca | |
| 9:15 – 9:30 | <i>George Octavian Ungurean</i> , A Hardware USB Security Gateway for Authenticated HID Access and Wireless File Mediation, UTCN | | 9:15 – 9:30 | <i>George Ursu</i> , Ontology-guided multi-step reasoning for explainable differential diagnosis, UTCN |
| 9:30 – 9:45 | <i>Clementina-Ioana Moisa</i> , Ablation Study on the Pre-Disaster Context in Building Damage Assessment, UBB | | 9:30 – 9:45 | <i>Anisia-Veronica Oltean</i> , Integrating retrieval augmented generation (RAG) with machine learning-based, UBB |
| 9:45 – 10:00 | <i>Dan Stefan Homeniuc & Mircea Gabriel Antonesi</i> , Frequency-decomposed Koopman operator for energy time series forecasting, UTCN | | 9:45 – 10:00 | <i>Ioana-stefania Risteiu</i> , Profile-Based Privacy-Preserving Extension for Internet Browsers, UTCN |
| 10:00 – 10:15 | <i>Ștefan-George Alexa</i> , SafeShare: A Zero-Knowledge File Sharing Platform with Privacy-Preserving Anomaly Detection, UBB | | 10:00 – 10:15 | <i>Rareș-Andrei Cotoi</i> , Optimization of Urban Road Infrastructure Using Graph Theory and Evolutionary Algorithms, UBB |
| 10:15 – 10:30 | <i>Maria-Eliza Gozman-Pop</i> , Reinterpreting DIPRE for the Modern Web: Structural Extraction of Multilingual Person Records, UTCN | | 10:15 – 10:30 | <i>Flavia-Maria Marincau</i> , Silhouette-Based Coordination for Multi-Agent Deep Reinforcement Learning in Gas Source Localization, UTCN |
| 10:30 – 10:45 | <i>Eric Moghioroș</i> , Privacy-Preserving Federated Anomaly Detection for Distributed Microservice Architectures, UBB | | 10:30 – 10:45 | <i>Teodora Schiau</i> , Artificial Intelligence Copilot for Breast Cancer Pathology: Integrating Diffusion - Based Spatial Transcriptomics Inference with Large Language Models, UBB |

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| 10:45 – 11:00 | <i>Ioana Melisa Barna & Raluca-Delia Bozdog</i> , Guide Me: An Accessibility-Aware Crowdsensing Navigation System for Urban Pedestrian Routing, UTCN | | 10:45 – 11:00 | <i>Mihai Panduru</i> , DotMal: A Methodology for Discovering Runtime Telemetry Signals in .NET Malware Detection, UTCN |
| 11:00 – 11:15 | <i>Andreea-Bianca Croitoru</i> , Affective Computing in Low-Resource Languages: A Romanian Emotion Detection Model and Empathetic Conversational Agent for Emotional Support, UBB | | 11:00 – 11:15 | <i>Anamaria Ordean</i> , Multi-Task Toxicity Prediction on Tox21: A Comparative Study from Fingerprints to Graph Neural Networks and Stacking, UBB |
| 11:15 – 11:30 | <i>Miruna Roxana Bacisor & Maria Alexandra Buzila</i> , Detection and Analysis of Neuronal Avalanches from Local Field Potential Signals under Different Anesthesia Levels, UTCN | | 11:15 – 11:30 | <i>Monica Nicoleta Juravle</i> , Automated Dendrite Analysis in Brightfield Microscopy Using a Classical Image Processing Pipeline, UTCN |
| 11:30 – 11:45 | <i>Andrei-Paul Dobrescu</i> , Deliberation Over Prediction: A Multi-Agent LLM Framework for Post-Earnings Drift, UBB | | 11:30 – 11:45 | <i>Sebastian Șoptelea</i> , Real-Time Quantum-Inspired 5D K-Means Image Segmentation, UBB |
| 11:45 – 12:00 | <i>Robert-Virgiliu Oltean</i> , A Secure Low-Cost ESP32 VANET with OBD-II Telemetry and Air Quality Sensing, UTCN | | 11:45 – 12:00 | <i>Alexandra-Elena Pitaru & Marian Sandor</i> , A Study of Static PE Malware Detection on SOREL-20M, UTCN |
| 12:00 – 12:15 | <i>Emilia-Andreea Alexandrescu</i> , Muretto Code: A Multi-tiered Machine Learning Decision Support System for Formula 1 Race Engineering, UBB | | 12:00 – 12:15 | <i>David Obreja</i> , AR Smart Glasses for Real-Time Queen Bee Detection Using Deep Learning, UBB |
| 12:15 – 12:30 | <i>Raluca-Ioana Mercas</i> , A Modular Deep Learning Pipeline for Interpretable Glaucoma Screening from Fundus Photographs, UTCN | | 12:15 – 12:30 | <i>Razvan-Mihai Bolundut</i> , On The Detection Of Hand-Marshaled COM Activation And Communication Threats, UTCN |
| 12:30 – 12:45 | <i>Elena-Tamara Ivanof</i> , Monte Carlo Dropout for Out-of-Distribution Detection: A Comparative Study on MNIST-like Benchmarks, UBB | | 12:30 – 12:45 | <i>Alexandru-Dan Balas</i> , Evaluation Pitfalls in Deep Learning for Small Medical Imaging Datasets, UBB |
| 12:45 – 13:00 | <i>Robert-Emanuel Ardelean</i> , Text Embedding Cross Fusion for Overcoming Token Limits in Vision Language Models, UTCN | | 12:45 – 13:00 | <i>Bogdan Cristian Sipos</i> , Deep Learning Peak Detection and Quantification in Proton Nuclear Magnetic Resonance Spectra, UTCN |

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| 13:00 – 13:15 | <i>Delia Dumitru</i> , Database Testing Using Differential Query Execution and an Adaptive Greedy Extension, UBB | | 13:00 – 13:15 | <i>Iulia-Antonia Bartic</i> , Intelligent Shipping Cost Estimation Through Packing Optimization and AI Integration, UBB |
| 13:15 – 13:30 | <i>Stefan Bia</i> , Compiling in the Quantum Computing Era: A Circuit Transpiler for NISQ Devices, UTCN | | 13:15 – 13:30 | <i>Dan-Stefan Strungar</i> , Hardware-Accelerated Semi-Global Matching: Evaluating CUDA & HALIDE Implementations for Neural Network Penalty Prediction, UTCN |
| 13:30 – 13:45 | <i>Andra-Riana Fecske</i> , ArtAICoach: CNN Ensemble Classification and LLM-Generated Feedback for Artistic Style Analysis, UBB | | 13:30 – 13:45 | <i>Alexandra-Ioana Moroz</i> , Enhanced Screening for Polycystic Ovary Syndrome, UBB |
| | | | 13:45 – 14:00 | <i>Alexandra-Isabela Trifan</i> , A Hybrid Phishing-Page Detector with a Region-Adapted Visual Knowledge Base: A Romanian Case Study, UBB |

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| 14.15 - Premiere (SCSS-2026) Sala Aula - Cladirea HUB UTCN / Et.3 | |
| Panel 5, Sala BT5_05 | |
| Cristian Lelutiu, Alexandru-Gabriel Sirbu | |
| UTCN, Str. Gheorghe Baritui, Nr. 8, Cluj Napoca | |
| 9:15 – 9:30 | <i>Tudor-Alexandru Bogdan</i> , QRProtect: A Secure-by-Design Multi-Agent System for Detecting QR-Code Phishing on Fresh URLs, UTCN |
| 9:30 – 9:45 | <i>Victor Boar</i> , OptiStereo: A Marker-Based Sparse Stereo Pipeline for Traceable Optical Measurement, UBB |
| 9:45 – 10:00 | <i>Tudor Sebastian Gădălean, Tudor Sîntoma, Vasile Vlad Moca, Adriana Nagy Dabacan</i> , Real Time EEG-Driven Emotional Music Generation, UTCN |
| 10:00 – 10:15 | <i>Geanina Clipa</i> , Routing Failures to the Right Agent: A Controlled Study of Agentic AI for Java Unit Test Generation, UBB |
| 10:15 – 10:30 | <i>Daria Ungureanu</i> , OCT-DINO: Domain-Adapted Vision Transformers for Cross-Dataset Retinal OCT, UTCN |
| 10:30 – 10:45 | <i>Ștefania-Ioana Bunaciu</i> , Automated Detection of Dark Patterns in Web Interfaces, UBB |
| 10:45 – 11:00 | <i>Maria Vasilache</i> , Brain Tumor Analysis using Integrated YOLO and Segment Anything Model Architectures, UTCN |
| 11:00 – 11:15 | <i>Tudor-Luca Crețu</i> , Topological Deep Learning for Knot Diagrams, UBB |

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| 11:15 – 11:30 | <i>Darius-Stefan Vlad</i> , CourtVision: An Intelligent System for Basketball Action Recognition and Kinematic Analysis Using Monocular Video, UTCN |
| 11:30 – 11:45 | <i>Emanuel-Vasile Puțura</i> , Data Redundancy in Encrypted Traffic Datasets for Network Traffic Classification, UBB |
| 11:45 – 12:00 | <i>Vlad-Ioan Durdeu</i> , A Multi-Agent Desktop Automation Architecture with Structured Evidence Review via Model Context Protocol, UTCN |
| 12:00 – 12:15 | <i>Alexandru-Mihai Toma</i> , CodeGraph: Repository-Level Structural Retrieval for AI Coding Agents via Personalized PageRank, UBB |
| 12:15 – 12:30 | <i>Bianca Mitroi & Vlad Ursache</i> , Securing the Aggregation Pipeline: Server and Client-Side Defenses Against Multi-Vector Threats in Federated Learning, UTCN |
| 12:30 – 12:45 | <i>Miruna-Elena Mărginean</i> , TravelAssist: A Clustering-Based Approach to Automated Travel Itinerary Generation, UBB |
| 12:45 – 13:00 | <i>Ioan-Iulian Todor</i> , HospitAI: A Hospital Analytics Platform Combining Patient Clustering, Clinical Sequence Mining and AI-Generated Interpretation, UTCN |
| 13:00 – 13:15 | <i>Mălina-Teodora Dumitrescu</i> , When VPN Detectors Learn the Capture: Structural Dataset Shift in Flow-Based Encrypted VPN Traffic Classification, UBB |
| 13:15 – 13:30 | <i>Aurora-Malina Bondre</i> , Multi-label ECG classification using deep learning architectures with multimodal metadata fusion, UTCN |
| 13:30 – 13:45 | <i>Alina Buliga</i> , ClujHub: A Data-Driven Civic Engagement Platform with Automated Hotspot Detection and Petition Generation, UBB |
| 13:45 – 14:00 | <i>Alexandru-Răzvan Gorgan</i> , Explainable Fake News Detection in Romanian Media Using a RoBERT Ensemble, UBB |