

Computer Science Students Conference 2025

June 27, 2025

CLUJ-NAPOCA, ROMANIA

<p>8:50 – 9:00 – Deschidere sala 335</p> <p>14.00 - Premiere (SCSS-2025) sala 335</p>					
<p>Panel 1, Sala 320 UBB, Str. Teodor Mihali, Nr. 58-60, Cluj Napoca</p>			<p>Panel 2, Sala 321 UBB, Str. Teodor Mihali, Nr. 58-60, Cluj Napoca</p>		
9:00 – 9:15	<i>Ciurcău Leonardo-Iulian</i> , Damaged photograph restoration via image inpainting and desnowing with multi-step enhancement, UBB		9:00 – 9:15	<i>Balint Sergiu-Dacian</i> , Word-level Sign Language Recognition using Ensemble Methods, UBB	
9:15 – 9:30	<i>Farcău Anda</i> , Calculating Weather Forecasts for Aerodromes Using Artificial Neural Networks, UBB		9:15 – 9:30	<i>Andrei - Nicoară Sabina – Eleny</i> , A Game of Connection: Assessing Social-Cognitive Patterns in High-Functioning Autism through an Interactive Narrative, UBB	
9:30 – 9:45	<i>Alexandra-Maria Marginean</i> , Predicting the Depth of Anesthesia Using Deep Learning - UTCN		9:30 – 9:45	<i>Cadar Andrei Calin</i> , Geographical Quantification of Cyberattack Risks Using Honeypots, UTCN	
9:45 – 10:00	<i>Demian Andrada-Maria</i> , AI-driven dog training: Exploring solutions for personalized recommendations, UBB		9:45 – 10:00	<i>Spiridon Dragoș</i> , Deep Learning Approaches for Bird Sound Classification and Mobile Deployment, UBB	
10:00 – 10:15	<i>Avram Andrei-Grigore</i> , Lie Detection via Facial and Vocal Analysis: An AI-Driven Application, UBB		10:00 – 10:15	<i>Dumitru Ana-Maria</i> , MeowMap: A Machine Learning Approach to Predicting Cat Adoptability, UBB	
10:15 – 10:30	<i>Andrei Bogdan Constantin</i> , VISION-RISK: Vision-Language Model for Risk Assessment in Explainable Autonomous Driving Systems, UTCN		10:15 – 10:30	<i>Dornea Andrei</i> , Intelligent Indoor Plant Monitoring System with IoT Platform and Mobile Application. GreenHouse App – <i>Daniel</i> , UTCN	

10:30 – 10:45	<i>Azoicai Naomi</i> , The Impact of Data Augmentation on YOLO Object Detection Models for Bone Fracture Detection, UBB		10:30 – 10:45	<i>Stan Ariana-Maria</i> , Simple Yet Effective: Rule-Based Late Fusion for Multimodal Emotion Analysis, UBB
10:45 – 11:00	<i>Avram Alexandru-Andrei</i> , Relation extraction for handling disinformation, UTCN		10:45 – 11:00	<i>Bianca Anamaria Chiorean</i> , Generate Semantic Images with ControlNet, UTCN
11:00 – 11:15	<i>Oprișiu Bogdan-Ioan</i> , Robot Control via Compact LLMs: A Case Study, UBB		11:00 – 11:15	<i>Oltean Irina-Stefania</i> , Enhancing Art Interpretation with AI: A Study on Painting Classification and Description Generation, UBB
11:15 – 11:30	<i>Bence Beke-Szabó</i> , A System for Dynamic Instrumentation and Automated API Reverse Engineering using Large Language Models, UTCN		11:15 – 11:30	<i>Dănciulescu Bianca-Andreea</i> , A hybrid TCN-Transformer model for energy forecasting, UTCN
11:30 – 11:45	<i>Prodan Radu Matei</i> , SeatSurfer: An AI-Driven Architecture for Hybrid Workplace Booking and Smart Office Management, UBB		11:30 – 11:45	<i>Felecan Maria-Iulia</i> , Genre Prediction of Romanian Songs from Lyrics with Machine Learning, UBB
11:45 – 12:00	<i>Buzan Roxana-Catalina</i> , TimeGPT vs LSTM-CNN for predicting PV panels energy production, UTCN		11:45 – 12:00	<i>Cionte Sergiu-Ionut</i> , Automatic Traffic Monitoring System, UTCN
12:00 – 12:15	<i>Hîncu Alice-Ramona</i> , Test Case Prioritization using Artificial Intelligence for faster Continuous Integration, UBB		12:00 – 12:15	<i>Muntean Tudor</i> , Transfer Learning - based Test Case Prioritization in Continuous Integration Environments, UBB
12:15 – 12:30	<i>Catalin Cot</i> , Rust in the Kernel: A Practical Evaluation on Windows, UTCN		12:15 – 12:30	<i>Cosmin-Alexandru Cupșea</i> , Forecasting Energy Consumption Using Kolmogorov–Arnold Networks with Different Polynomial Functions, UTCN
12:30 – 12:45	<i>Bacea Andreea-Maria</i> , MedGuide: AI-Assisted Brain Tumor Classification Using Deep Learning and Machine Learning Techniques, UBB		12:30 – 12:45	<i>Mocanu Mihai</i> , Towards breaking the Advanced Encryption Standard, UBB

12:45 – 13:00	<i>Cristian Eusebiu Scărișoreanu</i> , Deep-Q-Network-based Approach, for Scheduling in Smart Homes UTCN		12:45 – 13:00	<i>Cristina Man</i> , AI-driven Statistical Analysis of the Worst-Case Power Dissipation in PCB Configurations, UTCN
13:00 – 13:15	<i>Țarcă Andrei-Ioan</i> , ArrowFormer - Detecting Painted Arrows using DEViT, UBB		13:00 – 13:15	<i>Chirvasiu Mihai</i> , Intelligent audio processing and classification system of mechanical problems for combustion engines, UBB
13:15 – 13:30	<i>Darius-Ionut Oltean</i> , Code Vulnerability Detection Using Graph Neural Networks, UTCN		13:15 – 13:30	<i>Diana-Laura Vaida</i> , Enhancing Children’s Story Comprehension Through a RAG-Based Conversational AI System, UTCN

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<p>Panel 3, Sala 335 UBB, Str. Teodor Mihali, Nr. 58-60, Cluj Napoca</p>			<p>Panel 4, Sala 336 UBB, Str. Teodor Mihali, Nr. 58-60, Cluj Napoca</p>
9:00 – 9:15	<i>Stolniceanu Denisa-Elena</i> , From Classical to Transformer-Based Techniques: Classification and Semantic Recommendation of Romanian Baccalaureate Mathematics Exercises, UBB		9:00 – 9:15 <i>Gabor Ioana</i> , Embedding-Efficient Brain-to-Image Reconstruction Using Diffusion Models, UBB
9:15 – 9:30	<i>Persa Boc Maria</i> , Analyzing Human-Computer Interaction Prompting of High-Performing Mathematics Users, UBB		9:15 – 9:30 <i>Tuslea Andreea</i> , Comparative EEG Analysis of Affective and Cognitive Responses to Modernist Poetry: Reading vs. Listening, UBB

9:30 – 9:45	<i>David Oliver Sipos</i> , HAL10000: Extending the HAL9000 educational OS with UEFI boot and live debugging, UTCN		9:30 – 9:45	<i>Gelu-Samuel Josan</i> , Wildfire Detection using Binary Classification and Semantic Segmentation, UTCN
9:45 – 10:00	<i>Kocsis Antonia Krisztina</i> , A Context-Aware Recipe Application Leveraging Semantic Search and Retrieval-Augmented Generation, UBB		9:45 – 10:00	<i>Raul-Sorin Frandescu</i> , Automatic Detection and Remediation of Faults in Wi-Fi Networks: An Artificial Intelligence-Based Approach, UBB
10:00 – 10:15	<i>Petricel Georgiana-Maria</i> , Computer-Aided Melanoma Diagnosis Through Lesion Detection and Shape Feature Analysis, UBB		10:00 – 10:15	<i>Suciu Bogdan</i> , Glossary-enhanced word vector representations for natural language processing, UBB
10:15 – 10:30	<i>George-Octavian Floare</i> , System Monitoring Using Large Language Models, UTCN		10:15 – 10:30	<i>George Catalin Robotin</i> , AskUTCN: A Llama-3 Based Chatbot Finetuned for University Information Retrieval, UTCN
10:30 – 10:45	<i>Halbeș Cătălin</i> , GPGPU and Multithreaded Parallel Implementation of a JPEG Encoder, UBB		10:30 – 10:45	<i>Silivăstru Oana Maria</i> , Automatic Question Answering and Test Generation from Documents in Romanian and English, UBB
10:45 – 11:00	<i>Iulia-Olivia Cipleu</i> , Hybrid Bio-Inspired Method for Optimal Energy Trading Between Interconnected Microgrids, UTCN		10:45 – 11:00	<i>Lisandra Huza</i> , Solar Flares Prediction from AIA and HMI Satellite Images, UTCN
11:00 – 11:15	<i>Jinga Tudor</i> , Deductive Verification of Rust- C Cross-Language Projects With Automated Specification Translation, UBB		11:00 – 11:15	<i>Neamtiu Cosmin-Ioan</i> , Unsupervised Recognition of Sparse Facial Movements using Convolutional Spiking Neural Networks, UBB
11:15 – 11:30	<i>Maria-Cătălina Burlea</i> , Optimizing Surface-Mount Technology Process Planning Using a Hybrid Machine Learning and Genetic Algorithm Framework, UTCN		11:15 – 11:30	<i>Mihaela Macarie-Ancau</i> , Deep Clustering for Blood Cell Classification and Quantification, UTCN
11:30 – 11:45	<i>Timis Cosmin-Alexandru</i> , Deepfake Detection: A Hybrid Inception-Transformer Model for Video Analysis, UBB		11:30 – 11:45	<i>Ardelean Daniel-George</i> , Multipath variants for congestion control in context of WebRTC, UBB

11:45 – 12:00	<i>Mihai Anca</i> , An explainable framework for fundus image curation and lesion detection in diabetic retinopathy, UTCN		11:45 – 12:00	<i>Oana Denisa Zaharie</i> , Image Colorization with Stable Diffusion, UTCN
12:00 – 12:15	<i>Voinea Andrei</i> , Reconstruction of Babylonian Texts: Integrating Transformers with Symbolic Reasoning, UBB		12:00 – 12:15	<i>Țenche Eduard-Marian</i> , EMG-Controlled Supernumerary Finger for Human Hand Augmentation, UBB
12:15 – 12:30	<i>Radu Dragos Imbuzan</i> , FBTaint: A Forward-Backward Taint Analyzer for C source code and binary executables, UTCN		12:15 – 12:30	<i>Răzvan-Ionuț Fucă</i> , InferedSymbiosis: A Hybrid Method for Automatic Vulnerability Detection and Remediation, UTCN
12:30 – 12:45	<i>Diana-Nicoleta Zaha</i> , Electronic Control Unit Mechanical Architecture Optimization using Machine Learning, UBB		12:30 – 12:45	<i>Ion Andreea-Marina</i> , Beyond the Grades: Gamifying Learning Whilst Taking Into Account Mental Health, UBB
12:45 – 13:00	<i>Sabina Volcov</i> , Transformer models in EEG interpretation, UTCN		12:45 – 13:00	<i>Stefan Cadar</i> , Predicting wind speed in Wind Farms with Physics-Informed Kolmogorov-Arnold Networks, UTCN
13:00 – 13:15	<i>Stanciu Andrei-Calin</i> , Exploring Compositionality in Scalar Functions, UBB		13:00 – 13:15	<i>Osvath Robert-Levente</i> , Impact of frame-based representations of event-based data for gesture recognition, UBB
13:15 – 13:30	<i>Stefan Socoleanu</i> , Verifying Smart Contracts for Home Rentals using Kontrol, UTCN		13:15 – 13:30	<i>Tompea Radu-Gabriel</i> , Real-time Wireless Telemetry System for a Formula Student Electric Vehicle, UTCN

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<p>Panel 5, Sala 338</p> <p>UBB, Str. Teodor Mihali, Nr. 58-60, Cluj Napoca</p>	
9:00 – 9:15	<i>Back Andrei-Gheorghe</i> , Adaptive Offloading Strategies in Edge-Cloud Integrated Systems Used for Latency Sensitive Applications, UBB
9:15 – 9:30	<i>Rafain Emőke</i> , Improving Cognitive Distortion Classification with Sentiment-Driven Machine Learning, UBB
9:30 – 9:45	<i>Tudor Giuroiu</i> , Smart Shell: an AI Command Predictor Shall, UTCN
9:45 – 10:00	<i>Raicu Maria-Camelia</i> , Detection and Classification of Logical Fallacies in Political Speeches, UBB
10:00 – 10:15	<i>Remus Andrei Bujor</i> , DepthSegmentJointAnything: Leveraging Multi task dense predictions using Visual Transformers, UBB
10:15 – 10:30	<i>Tudor Cristea</i> , CTF-PWN100: Automated Evaluation of LLMs on Binary Exploitation Challenges, UTCN
10:30 – 10:45	<i>Ignat Alex-Matei</i> , TripVault: A Smart Cultural Trip Planning System for Romania, UBB

10:45 – 11:00	<i>Valentin Tilneac</i> , Real Time Traffic Scene Understanding and Awareness Framework, UTCN
11:00 – 11:15	<i>Grigorescu Andrei-Viorel</i> , Exploration of capabilities and applications of recent specialized hardware components in modern GPUs, UBB
11:15 – 11:30	<i>Vlad Lazar</i> , L-Shape Bounding Box Detector for LiDAR Point-Clouds, UTCN
11:30 – 11:45	<i>Andrei Cosmin</i> , Hybrid Analysis on Windows Executables for Malware Detection using Random Forest Class, UBB
11:45 – 12:00	<i>Laura-Luisa Voicu</i> , Concept Attribution and Dual Explainability in Vision-Language Models, UTCN
12:00 – 12:15	<i>Coșman Iulian</i> , From Flat to Curve: A Geometrical Perspective on VAEs, UBB
12:15 – 12:30	<i>Mîndrilă Mihail-Alexandru</i> , A Modular MIP-Based Solver for University Timetabling, UBB
12:30 – 12:45	<i>Șeu David</i> , Sensor-Invariant Emotion Recognition from Wrist Photoplethysmography Using a Lightweight One-Dimensional Convolutional Neural Network, UBB