

Computer Science Students Conference 2024
June 28, 2024
CLUJ-NAPOCA, ROMANIA

8:50 - Sala Amfiteatru - Opening CSSC-2024 14.15 - Sala Amfiteatru - Premiere CSSC-2024			
Panel 1, Sala Amfiteatru Grigoreta Cojocar, Gheorghe Sebestyen&Călin Cenan HUB UTCN, Str. Barițiu, Nr. 4, Cluj Napoca		Panel 2, Sala Amfiteatru Bis Manuela Petrescu, Cristina Feier HUB UTCN, Str. Barițiu, Nr. 4, Cluj Napoca	
9:00 – 9:15	<i>Ursa Andra-Gabriela</i> , Bridging Linguistic Gaps: SENTIROM's Approach to Romanian Sentiment Analysis, UBB	9:00 – 9:15	<i>Malancioiu Daniel - George</i> , Optimizing Cold Start Performance in Serverless Computing Environments, UBB
9:15 – 9:30	<i>Topan Oana-Maria</i> , Security Risk Analysis Using Smart Edge Computing for Sets of Android Applications, UBB	9:15 – 9:30	<i>Comănac Dragoș-Mihail</i> , Anchorless object detection based on deep convolutional networks, UBB
9:30 – 9:45	<i>Ada Mitrea</i> Chromium Sandbox Escape Detection on Windows, UTCN	9:30 – 9:45	<i>Alexandra Serban</i> , Autonomous robot with sentiment analysis for serving in restaurants - UTCN
9:45 – 10:00	<i>Tiutin Andrada-Georgia</i> , A Novel Metrics-based Test Case Prioritization Approach for Software Product Lines, UBB	9:45 – 10:00	<i>Dunca George Raul Michael</i> , Automated Hybrid Ransomware Family Classification, UBB
10:00 – 10:15	<i>Galan Maria Lavinia</i> , New Adaptive Strategies of Reinforcement Learning Test Agent for Performance Testing, UBB	10:00 – 10:15	<i>Holgyes Orsolya Dorottya</i> , Predicting Romanian stock movement trends: a complex network approach combined with machine learning, UBB
10:15 – 10:30	<i>Alina Aurică</i> , Creating a smart shopping cart using computer vision for the product classification task, UTCN	10:15 – 10:30	<i>Anamaria Monica Migea</i> , Cook Smarter Not Harder: Enhancing Learning Capacity in Smart Ovens with Supplementary data, UTCN
10:30 – 10:45	<i>Moga Răzvan-Andrei</i> , Feasibility of LSTM-Based Models for Stock Trend Forecasting with Sentiment Analysis and Google Trends, UBB	10:30 – 10:45	<i>Loluța Ștefana</i> , Implementation of PeaceBot: Fine-Tuning and Quantization of LLaMA 2 for Enhanced Mental Health Support, UBB

10:45 – 11:00	<i>Neacșu-Miclea Liviu-Ștefan</i> , Joined U-Net and LSTM lightweight architecture for handwritten text lines segmentation, UBB	10:45 – 11:00	<i>Modolea Bogdan</i> , Biomimetic Hand Gesture Replication - An Arduino-Powered Robotic Approach, UBB
11:00 – 11:15	<i>Vlad Adrian Băneasa</i> , Nintendo Switch: An IoT Security Perspective, UTCN	11:00 – 11:15	<i>Alex-Dian Bureția</i> , Analysis of clustering methods for better Spike Sorting pipelines, UTCN
11:15 – 11:30	<i>Dumitru Alexandra-Ștefania</i> , WaveNet-Based Model for Accurate Electrocardiogram Heartbeat Classification, UBB	11:15 – 11:30	<i>Darius Jurjiu</i> , Medical Imaging for Dentistry Using Segmentation and Detection Deep Learning techniques, UBB
11:30 – 11:45	<i>Gherman Paula-Sorana</i> , Detecting Falls with AI: Deep Learning Solutions for Elderly Safety, UBB	11:30 – 11:45	<i>Rusu Raluca-Maria</i> , Adversarial Multitask Learning of Decorrelated Features for Age-Invariant Face Recognition, UBB
11:45 – 12:00	<i>Cezar-Mihai Suciu</i> , XAI-DETR: Explainable AI tool for Detection, UTCN	11:45 – 12:00	<i>Adrian-Valentin Ciu</i> , Self-Healing Model From Uncertain Data, UTCN
12:00 – 12:15	<i>Groza Iulia-Diana</i> , A Proximal Policy Optimization Approach to Detect Spoofing in Algorithmic Trading, UBB	12:00 – 12:15	<i>Demian Ana-Maria</i> , Anomaly Detection on Patient Vitals Data Streams, UBB
12:15 – 12:30	<i>Creț Ioana-Larisa</i> , A Comparison Between Exact and Approximate Machine Unlearning, UBB	12:15 – 12:30	<i>Custura Stefan-Octavian</i> , Software Visualization through Clothing Representation, UBB
12:30 – 12:45	<i>Claudiu Căndea</i> , Use Retrieval-Augmented Generation on Complex Medical Questions, UTCN	12:30 – 12:45	<i>Eric Toader</i> , LITE: A Modern, C Interoperable Programming Language, UTCN
12:45 – 13:00	<i>Șut George-Mihai</i> , Interactive chatbot-based Romanian news summarization and topic modeling, UBB	12:45 – 13:00	<i>Igreț Ioana-Cristina</i> , Context-Based Adaptation of Neural Network Compression for Unmanned Aerial Vehicles (UAV) Weed Detection, UBB
13:00 – 13:15	<i>Crisan Dragos</i> , Implementation of machine learning algorithms in precision agriculture using soil data, UBB	13:00 – 13:15	<i>Stancu Diana-Elena</i> , ReviveGAN: A generative approach for restoring grayscale old photos, UBB
13:15 – 13:30	<i>Vele Augustin</i> , Harnessing Large Language Models for Automated Privacy Risk Assessment of Institutional Web Data, UTCN	13:15 – 13:30	<i>Vicențiu Cojocaru</i> , Debiasing Image Generation Models via Counterfactual Data Augmentation and Contrastive Learning, UTCN

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Panel 3, Sala 1 Anamaria Briciu, Teodor Ștefănuț HUB UTCN, Str. Barițiu, Nr. 4, Cluj Napoca			Panel 4, Sala 2 Tudor Mihoc, Tiberiu Marita HUB UTCN, Str. Barițiu, Nr. 4, Cluj Napoca	
9:00 – 9:15	<i>Rotaru Mira Teodora</i> , Emotion Authenticity in a Static Driving Simulator for Preliminary Multimodal Data Collection, UBB		9:00 – 9:15	<i>Ivan Ioan-Adrian</i> , Landmark-based Hand Movement Recognition for Human-Computer Interaction, UBB
9:15 – 9:30	<i>Mesanan Melissa-Cristina</i> , Load Shedding Techniques in Data Stream Management Systems – An Experimental Study and A New Algorithm, UBB		9:15 – 9:30	<i>Petec Răzvan-Gabriel</i> , Alexandrescu Andrei-Robert, ContRailNet: Realistic Railway Image Synthesis using ControlNet, UBB
9:30 – 9:45	<i>Florin Petrean</i> , PwnMaster: Automatic Buffer Overflow and Format String Vulnerability Detection and Exploitation, UTCN		9:30 – 9:45	<i>Laurențiu Popa</i> , Real-Time CAN Bus Security in Internet of Vehicles: Intrusion Detection Using Deep Learning, UTCN
9:45 – 10:00	<i>Vaida Radu Andrei</i> , High performance approaches to architecture in modern payment systems, UBB		9:45 – 10:00	<i>Crudu Mălina</i> , Neural Network Methods for Detection of Textual Deception in Romanian Courtroom Testimonies, UBB
10:00 – 10:15	<i>Ármin Török, Dávid Szilágyi</i> , Personalized Passenger Comfort Assessment Using CAN Bus Data and Explainable AI, UBB		10:00 – 10:15	<i>Gălițianu Andrei</i> , A Flexible Framework for Automated Data Processing with LLMs: Application in CV Ranking for Recruiting, UBB
10:15 – 10:30	<i>Leonard-Andrei Pop</i> , Windows kernel driver fuzzing using source code instrumentation, UTCN		10:15 – 10:30	<i>Liviu Iacob</i> , Contrastive Learning in Lesion Detection for Mammography Screening Programs, UTCN
10:30 – 10:45	<i>Cibotariu Andrei</i> , PlantBuddy - Automating household watering systems using Internet of Things, UBB		10:30 – 10:45	<i>Dávid Szilágyi, Răzvan-Gheorghe Filea</i> , Benchmarking Autonomous Driving Systems using a Modular and Scalable Simulation Environment, UBB

10:45 – 11:00	<i>Matișan Rareș-Ștefan, Conf. Dr. Cristea Diana</i> , Comparative analysis of deep learning models for lung and heart segmentation in chest X-Rays, UBB	10:45 – 11:00	<i>Diana-Georgiana Drăgușin</i> , AI-Driven Roommate Matching: Leveraging the Big Five Personality Traits for Harmonious Dormitory Living, UBB
11:00 – 11:15	<i>Stefan Atitienei</i> , Exploring the Limits of T5: Multitask Fine-Tuning for Reasoning, Summarization, Sentiment Analysis and Figurative Language Understanding, UTCN	11:00 – 11:15	<i>Luca-Manea</i> , Enhancing docker security on Linux with eBPF, UTCN
11:15 – 11:30	<i>Pater Stefan-Otniel</i> , Increasing the efficiency of Robotic Process Automation through API connectors, UBB	11:15 – 11:30	<i>Pop Raul Stefan</i> , 3D Keypoints Learning in a Multi-task Setup, UBB
11:30 – 11:45	<i>Biriș David</i> , Deep learning approaches for detecting text generated by artificial intelligence, UBB	11:30 – 11:45	<i>Ilina Mircea Nicolae</i> , Developing an Affordable, Real-Time Assistive System for Visually Impaired Individuals, UBB
11:45 – 12:00	<i>David Lukacs</i> , Implementation of a RISC Computing System on FPGA, UTCN	11:45 – 12:00	<i>Mihai Enache</i> , Integrating Large Language Models and Diffusion Models for Idiom Visualization, UTCN
12:00 – 12:15	<i>Negoïtescu Andreea</i> , Intelligent Human Iris Recognition System Based on Deep Learning Models, UBB	12:00 – 12:15	<i>Dávid Szilágyi, Răhăian Rareș</i> , Real-Time Path Planning using Cubic Spirals for Vehicle Simulation Environments, UBB
12:15 – 12:30	<i>Sasaran Tania</i> , Classification of Romanian Poems in Literary Currents using Machine Learning, UBB	12:15 – 12:30	<i>Avram Irina</i> , An Analysis of Fine-Tuned Models for Dog Breed Image Classification, UBB
12:30 – 12:45	<i>Monica Uțiu</i> , Assessing Long-term Performance And Contributing Anomalies, UTCN	12:30 – 12:45	<i>Răzvan Bolunduț</i> , Automatic Identification of Required Linux Capabilities, UTCN
12:45 – 13:00	<i>Bejan Andrei-Paul</i> , FastSightNet: Real-time Eye-Tracking-based Human-Computer Interface, UBB	12:45 – 13:00	<i>Oprîșor Raul-Alexandru</i> , Design and Implementation of a High-Performance Hybrid E-Commerce CMS Using Next.js, UBB
13:15 – 13:30	<i>Mîrț Leonard</i> , Clickbait Detection Using Transfer Learning, UBB	13:15 – 13:30	<i>Zirbo Samuel-George-Vasile</i> , Fairness in Translation: Mitigating Gender Bias in Neural Machine Translation, UBB
13:30 - 13:45	<i>Simona Tivadar</i> , Measuring nAMD biomarkers from OCTA images, UTCN	13:30 - 13:45	<i>Sorin Banc</i> , Black box application fuzzing by combining hardware control-flow tracing with coverage guided test generation, UTCN