

# CIIT 2026 detailed schedule

Friday 24.04.2026

## Congress Hall 11:00-13:00 Session 1: Machine Learning Methods and Applications - Chair: Marija Mihova

11:00-11:15	Hyperparameter Optimization in deep learning models for PPI Link Prediction	Mila Gjurovska, Ilinka Ivanoska
11:15-11:30	Stability of Feature Selection Under Class Imbalance: Stepwise Logistic Regression vs. LASSO for Pressure Ulcer Risk Prediction	Marija Mihova, Lence Neloska, Filip Mihov
11:30-11:45	Group Definition Over Model Sophistication: Comparing Classical ML and LLMs for Age Classification from Single Messages	Ilija Bozoski, Sasho Gramatikov
11:45-12:00	A Self-Healing Distributed Framework for Fault-Tolerant Heuristic Search	Rasim Salkoski, Petar Mileski, Ile Dimitrievski
12:00-12:15	LLM-Powered Demand Elasticity Labeling: A Zero-Shot and Few-Shot Learning Approach for Price-Sensitivity Inference	Anmol Aggarwal
12:15-12:30	Machine Learning in Video Transcoding: A Short Review	Igor Goshev, Petar Sekuloski, Aleksandar Stojmenski, Boban Joksimoski, Ivan Chorbev

## Piano Hall 11:00-13:00 Session 2: Large Language Models and Retrieval-Augmented Systems - Chair: Ilinka Ivanoska

11:00-11:15	An Educational Retrieval-Augmented Generation System for Faculty Course Support	Stefan Trajanovski, Ema Pandilova, Marko Petrov, Vlatko Spasev, Aleksandar Stojmenski, Ivan Chorbev
11:15-11:30	Explainable robotic applications and usage of graph neural networks	Vesna Dimitrievska, Nevena Ackovska, Bojan Ilijoski, Ilinka Ivanoska
11:30-11:45	Tiny Think: Reasoning-First Post-Training for Tiny Math and STEM Language Models	Bojan Jakimovski, Bojan Ilijoski
11:45-12:00	Improving LLM Accuracy in Turkish Legal Texts: A Two-Stage Hybrid Retrieval and Cross-Encoder Re-Ranking-Enhanced RAG Framework	Muhsin DOLU, Münüre Ezgi ALTINTAŞ, Elvan DUMAN, Yunus KÖKVER
12:00-12:15	TuRAG: A Privacy-Preserving Translation-Supported Retrieval-Augmented Generation System for Turkish-Language Knowledge Bases	Selin Bostan, Aydın Çetin
12:15-12:30	Translation-Based Sentiment Analysis for Macedonian	Sofija Kochovska, Jernej Vičič

## Diplomatic Hall 11:00-13:00 Session 3: Computer Vision and Multimedia Processing - Chair: Boban Joksimoski

11:00-11:15	Multi-Class Segmentation of Thoracic OARs and CTV in Radiotherapy Planning CT with Improved Delineation	Elvan Duman, Ayşe Koç, Erman Koç, Timur Koca
11:15-11:30	Neural Radiance Fields vs 3D Gaussian Splatting: Speed-Quality Trade-offs in Multi-View Static-Scene Reconstruction	Manuel Trajchev, Vlatko Spasev, Boban Joksimoski
11:30-11:45	Automatic Detection of Audio Deepfakes using a Lightweight Convolutional Neural Network	Florica Dolca, Ioana-Victoria Zinveliu, Mircea Giurgiu
11:45-12:00	Experimental Study of Delta Neural Architectures for Low-Power Embedded Speech Enhancement	Valentin-Dimitrie Popescu, Mircea Giurgiu
12:00-12:15	Robust Watermarking Framework for Securing Speech and AI-Generated Text Content	Ioana-Victoria Zinveliu, Mircea Giurgiu
12:15-12:30	A Benchmark Study of Transfer Learning Using YOLO26 for Land Cover Classification	Stefan Trajanovski, Ema Pandilova, Marko Petrov, Aleksandar Stojmenski, Ivan Kitanovski, Ivan Chorbev

## Director Hall 11:00-13:00 Session 4: AI in Healthcare and Biomedical Systems - Chair: Bojana Koteska

11:00-11:15	Application of an Alert-Based Data Quality Model to ECG Signals in the MIMIC-IV Database	Eliza Gyulgyulyan, Bojana Koteska, Anastas Mishev, Hrachya Astsatryan
11:15-11:30	Quantitative EEG Biomarkers and Machine Learning for Affective Computing: Features, Models and Validation	Vladimir Kambovski, Ema Pandilova, Marko Petrov, David Arsov, Aleksandar Stojmenski, Ivan Chorbev
11:30-11:45	Intelligent Health Monitoring Systems: A Comparative Review of Multimodal Physiological Sensing and Intelligence Design	Bojan Ristovski
11:45-12:00	Comparative Analysis of Non-Intrusive Monitoring Technologies for Aging in Place	Anastazija Kovachevikj
12:00-12:15	Enhancing Multi-Agent Medical Systems through Semantic Retrieval-Augmented Generation: A Proof-of-Concept Study	Pavel Uzman, Zlate Dodevski, Miodrag Cekikj, Tanja Pavleska, Vladimir Trajkovikj
12:15-12:30	Config-Driven SEIR Epidemic Simulation Dashboard with Multi-Run Uncertainty Bands and Scenario Comparison	Ivo Sardzoski - Teovski, Konstantin Pandilovski, Marija Stankova Medarovska, Viktor Denkovski
12:30-12:45	Detection and Classification of ECG Signals with Interactive Web Interface	Angela Krstanoska, Ivan Chorbev, Aleksandar Stojmenski
12:45-13:00	Analysis of EEG-Based Systems for Drowsiness Detection	David Arsov, Aleksandar Stojmenski, Ema Pandilova, Boban Joksimoski, Ivan Chorbev

## Hotel Drim 13:00-15:00 Lunch break

## Congress Hall 15:00-17:00 Session 5: Software Systems, Architectures, and Data Engineering - Chair: Biljana Stojkoska

15:00-15:15	An Automatic Transformation Pipeline from ER Diagrams to DDL	Milan Todorovikj, Goran Velinov
15:15-15:30	Analysis of Different Networks (LEO Satellite, 4G, 5G, WDSL, Fiber) for Optimizing Connectivity in Next-Generation D2C Networks Based on Handover and Traceroute	Shpresa Tuda

15:30-15:45	Integrating Design Thinking into the Product Management Lifecycle: Framework for a Human-Centered Agile Development	Marina Klimoska, Ivan Kitanovski
15:45-16:00	Scalable Data Architecture for Crowdsourced Smart City IoT using Apache Cassandra	Panche Chavkovski, Biljana Stojkoska
<b>Piano Hall 15:00-17:00 Session 6: AI Theory, Explainability, and Reasoning - Chair: Emil Stankov</b>		
15:00-15:15	Validity-Preserving Algorithms for Bilinear Multivariate Quadratic Quasigroups	Marija Mihova, Jovan Krajevski
15:15-15:30	To believe, or not to believe, that is the question	Daniel Karamanov, Stefan Stojanovski, Katerina Zdravkova
15:30-15:45	Ethical Challenges in the Development of Large Language Models for Low-Resource Languages	Dimitar Peshevski, Petar Sekuloski, Ana Todorovska, Dimitar Trajanov
15:45-16:00	Evaluating Student Writing Using Large Language Models: A Rubric-Based Approach	Trajche Karov, Emil Stankov, Mile Jovanov
16:00-16:15	Analyzing the Stability of Emotion-Selective Neurons in Large Language Models	Jovana Kocevaska, Mile Jovanov, Sonja Gievska
16:15-16:30	VisualKGQA: Multi-Hop Reasoning Path Visualization	David Hristov, Stefan Tagarski, Darko Sasanski, Riste Stojanov
16:30-16:45	Explainable Generative Decision-Making for Human-in-the-Loop Autonomous Systems	Tejas Pravinbhai Patel
16:45-17:00	Impact of Non-Cost Parameters on Cost-Optimal Operation of a Two-Phase Coxian Queueing System	Stefan Mirchevski, Aleksandra Popovska-Mitrovikj, Verica Bakeva
<b>Diplomatic Hall 15:00-17:00 Session 7: Intelligent Systems, IoT and Applications - Chair: Aleksandar Stojmenski</b>		
15:00-15:15	Resource-Efficient LLM Adaptation: Fine-Tuning Mistral-7B with QLoRA for Dialogue Summarization	Ema Pandilova, Vesna Pop-Dimitrijoska Koteska, Andrej Petkovikj, Ana Markovska, Marija Maneva, Pance Ribarski, Bojan Ilijoski
15:15-15:30	Accelerating Over-the-Air Updates in Autonomous Robotic Vehicle: A Bandwidth-Efficient and Secure Framework for Software-Defined Mobility	Petar Dimitrievski, Vlatko Spasev, Andrea Kulakov, Nevena Ackovska
15:30-15:45	Methods for detecting low-level manipulation on YouTube by analyzing anomalies in user comment activity	Oleksii Mints
15:45-16:00	Autonomous Robotic Systems for Crop Field Operations: A Systematic and Comparative Review	Hristina Zdraveska, Vlatko Spasev, Andrea Kulakov, Ivica Dimitrovski
16:00-16:15	Anomaly Detection in Log Data Using BERT and Graph Neural Networks	Goran Petkovski
16:15-16:30	Energy-intensive information technologies as a risk factor for sustainable green energy development	Ada Tolkachova-Mints, Oleksii Mints
<b>Director Hall 16:00-17:00 Workshop: PRIME alert - Personalised Micro Environmental change Alert</b>		
<b>Hotel Drim 17:00-17:30 Coffee break</b>		
<b>Congress Hall 17:30-18:00 Opening Ceremony</b>		
<b>Congress Hall 18:00-19:00 Keynote speaker Filip Ilievski, Vrije Universiteit, Amsterdam: A Neurosymbolic Perspective on Commonsense Abstraction and Reasoning</b>		
<b>Hotel Drim 20:00 Dinner</b>		
<b>Saturday 25.04.2026</b>		
<b>Congress Hall 09:00-11:00 Session 8: Language Models, Agents, and Systems - Chair: Vojdan Kjorveziroski</b>		
09:00-09:15	Design and Scalability Assessment of an Intrusion Detection Pipeline on Kubernetes	Evgenija Krajchevska, Aleksandar Stojkovic, Vojdan Kjorveziroski
09:15-09:30	LoRA-Based Adaptation of Multilingual ASR Models for Low-Resource Speech	Marija Stojcheva, Igor Mishkovski, Andrea Kulakov, Goran Petkovski
09:30-09:45	Thematic Analysis of E-Commerce Reviews and SLM-Based Automatic Product Review Summarization System	Muhammed Güney, Aydın Çetin
09:45-10:00	AI Agents in Diplomatic Negotiations: A Multi-Agent Simulation Framework for Conflict Resolution	Igor Goshev, David Arsov, Petar Petreski, Mila Krsteva, Dimitar Peshevski, Dimitar Trajanov
10:00-10:15	Synthetic Data Generation for Quality Enhancement in Low-Resource Language Models: A Comprehensive Review	Pavel Stojanov, Ana Todorovska, Bojan Spasovski, Stefan Lazarov, Gorjan Stefanovski, Andrej Stojkovski, Dimitar Peshevski, Dimitar Trajanov
10:15-10:30	What Makes a Mobile Application Viral: Review and Comparative Analysis	Ana Mangarovska
10:30-10:45	Application of AI in document searching for the Bosnian language in and offline environment	Nina Bijedić, Adil Eminagić
10:45-11:00	A Conceptual Architecture for AI-Orchestrated Gamified Learning in Immersive Higher Education Environments	Jovana Trajcheska, Ivan Chorbev, Boban Joksimoski
<b>Piano Hall 09:00-11:00 Session 9: Data Security, Privacy, and Trustworthy Systems - Chair: Panche Ribarski</b>		
09:00-09:15	Comparative Analysis of Models for Personally Identifiable Information Detection	Marjan Gusev, Dimitar Mileski, Magdalena Trajkova, Masha Micevska, Ana Angejevska
09:15-09:30	Classification and Analysis of Open-Source Gen-AI Penetration Testing Tools	Jovan Simonoski, Vojdan Kjorveziroski

09:30-09:45	Tamper-Evident PDF Signing via On-Chain Hash Commitments and Embedded Watermarking	Panche Ribarski, Angel Avramovski
09:45-10:00	Design and Implementation of a Blockchain-Based University Diploma Verification System	Panche Ribarski, Anastasija Bojkiceva
10:00-10:15	Architectural Models for Privacy-Preserving Data Collection in Mobile Educational Applications	Georgina Ilievska, Jovana Trajcheska, Vesna Dimitrova, Mila Dodevska
10:15-10:30	Detection and Prevention of Secret Leakage in Git Repositories: Tooling Survey, Enterprise Evaluation, and Deployment Architecture	Panche Ribarski, Filip Josifoski
10:30-10:45	Whistleblowing in ICT: The Conscientious Objector in the Age of AI	Jovan Krajevski
10:45-11:00	PPO-Based Container Dispatching for Joint Tail-Latency and Energy Optimization on a Single Host	Enes Bajrami, Petre Lameski
<b>Diplomatic Hall 09:00-11:00 Workshop: FCSE presentations - Chair: Aleksandar Tenev</b>		
<b>Director Hall 09:00-11:00 Workshop: LLM reliability</b>		
<b>Hotel Drim 11:00-11:20 Coffee break by Sorsix</b>		
<b>Congress Hall 11:20-12:20 Keynote speaker Massimiliano Zanin, IFISC (CSIC - UIB), Spain: AI in Aviation: Why on collision course?</b>		
<b>Congress Hall 12:20-12:35 Sorsix talk: From Model Metrics to Care Delivery: Governing Clinical AI in Practice</b>		
<b>Congress Hall 12:35-13:00 Workshop: Vezilka</b>		
<b>Lobby Hotel Drim 13:00-13:10 Conference group photo</b>		
<b>Hotel Drim 13:00-14:30 Lunch break</b>		
<b>Congress Hall 14:30-16:30 Session 10: IEEE Student Competition - Chair: Bojan Ilijoski</b>		
14:30-14:45	Allele Fluctuations Analysis in Diploid Populations using Markov Chains	Andrej Petkovski, Verica Bakeva, Aleksandra Popovska-Mitrovikj
14:45-15:00	Simulation-Based Modeling of a Coffee Bar as a Queueing System with Heterogeneous Servers	Mila Krajcheska, Verica Bakeva
15:00-15:15	Audio-Augmented Prompting for Humor Explanation in Open-Source Language Models	Dimitar Dimov, Martina Toshevska, Sonja Gievska
15:15-15:30	Predicting Tuberculosis Incidence in 2022: A Ridge Regression and SHAP Analysis	Mila Jovanoska, Andrej Ristovski, Anika Ristevska, Slobodan Kalajdziski
15:30-15:45	Modeling UNO as a Stochastic Process: A Monte Carlo and Distributional Study	Borjan Dimeski, Verica Bakeva, Aleksandra Popovska-Mitrovikj
15:45-16:00	Heuristic Strategies for Accelerating Recursive Reliability Evaluation of Multistate Networks Using Minimal Path Vectors	Vanessa Poposka, Andrej Petkovski, Teodora Pandova, Blagoja Dzhorlev, Marija Mihova
16:00-16:15	Markov Chain-Based Authorship Attribution in Koine Greek for Disputed Pauline Letters of the New Testament	Teodora Pandova, Verica Bakeva, Aleksandra Popovska-Mitrovikj
16:15-16:30	LSTM-Based Stock Price Prediction with Multi-Model Sentiment Fusion: A Hybrid Deep Learning Approach	Anastasija Petrova
<b>Piano Hall 14:30-16:30 Session 11: IEEE Student Competition - Chair: Katarina Trojachanec Dineva</b>		
14:30-14:45	Acute Effects of Short-Form Video Consumption on Executive Function and Heart Rate Variability: An Experimental Study	Darko Trajanov
14:45-15:00	Implementing an Open-source Data Lakehouse for Monitoring, Visualizing, and Forecasting Air Pollution Data - Student Paper	Petar Malinovski, Bojana Jancheska, Stefan Andonov, Gjorgji Madjarov, Eftim Zdravevski
15:00-15:15	A Web Application for Digitalization and Automation of Transport and Logistics Processes with AI-Powered Document Recognition	Nadica Turimandjova, Vesna Dimitrievska Ristovska
15:15-15:30	Hour-Resolved Avoided CO <sub>2</sub> Assessment of a Prospective 2035 Renewable Portfolio in North Macedonia	Stefan Vulovski Ivanov
15:30-15:45	Architecture and Implementation of a Centralized System for Reporting and Processing Online Crimes	Ivan Markovski, Ivan Chorbev, Boban Joksimoski, Aleksandar Stojmenski, Ema Pandilova
15:45-16:00	Hospital Triage Optimization using Reinforcement Learning Techniques	Jana Angjelkoska
16:00-16:15	Program for STEMI myocardial infarction detection	Sofija Milevska, Slobodan Kalajdziski
16:15-16:30	Explainable Botnet Detection Using Flow-Based Random Forest Classification and OSINT Validation	Razan Ayoub, Elvis Onyekachi Njoku, Danium Shahnowaz Syed
<b>Diplomatic Hall 14:30-16:30 Session 12: Student - Chair: Aleksandra Dedinec</b>		
14:30-14:45	Decoding Renewable Energy Narratives in Coal-dependent Country Using NLP Techniques	Ruzhica Chochoroska, Dragana Usovikj, Marija Stojcheva, Jana Prodanova, Aleksandar Dedinec, Aleksandra Dedinec
14:45-15:00	Comparative Analysis of LLM Capabilities for SQL and Cypher Query Generation from Natural Language - Student Paper	Dimitrij Krstev, Kristijan Panchevski, Stefan Andonov, Slobodan Kalajdziski, Gjorgji Madjarov
15:00-15:15	Seasonal and Regional Variations in Air Pollution Awareness on X: A BERT-Based Analysis	Jana Gogova, Marija Stojcheva, Aleksandra Dedinec, Jana Prodanova
15:15-15:30	Narrative analysis of collective trauma using transformer models	Simona Angjelkovska, Marija Stojcheva, Aleksandra Kanevska, Jana Prodanova

15:30-15:45	Exploring Collective Trauma Through the Lens of Sentiment Models	Verica Chochorovska, Marija Stojcheva, Aleksandra Kanevche, Jana Prodanova
15:45-16:00	Using Large Language Models for Advanced Text Classification	Jana Angjelkoska, Marija Stojcheva, Aleksandra Kanevche, Jana Prodanova
16:00-16:15	Exploring NLP Approaches for Classifying Promoter Regions in E. coli DNA Sequences	Rebeka Maneva, Konstantin Lozhankoski
16:15-16:30	The Representation Gap: Small vs. Large LLMs for Unsupervised Event Recommendation	Angela Apostolska
<b>Director Hall 14:30-16:30 Session 13: Student - Chair: Georgina Mircheva</b>		
14:30-14:45	Design and implementation of a decentralized modular system for intelligent management of bio-regenerative ecosystems	Velin Gjorgiev
14:45-15:00	Cross-Country Heterogeneity in Twitter Signals as Early Indicators of COVID-19 Case Growth	Marija Isailovska
15:00-15:15	Implementing AI Perceptual Landscape Mapping (AI-PLM) Framework: The Case of Macedonia	David Jovanovikj
15:15-15:30	Spec-Driven Development of a Role-Based Attendance Request System with Dynamic QR Verification	Marija Apostoloska-Kondoska, Ilija Jolevski
15:30-15:45	Beyond Digital Infrastructure: Unpacking the Barriers to Substantive Financial Transparency in Local E Government: A Case Study of Kragujevac	Saiful Mozumder
15:45-16:00	GrocerGo: Intelligent Grocery Shopping Optimization	Blerona Muladauti, Engjell Vlasi, Zorica Karapancheva, Mila Dodevska
16:00-16:15	A User-Centered Web Platform for Medical Laboratory Report Processing: Interaction Design for Blood Test Analysis	Nikola Sarafimov, Klaudija Stamenova, Magdalena Trajkova, Marija Cvetanovska, Simeon Minoski, Elena Atanasoska, Eftim Zdravevski, Riste Stojanov
16:15-16:30	Encoder-Decoder Architecture proposal for Deep Image Matting	Kiril Cvetkov, Ana Madevska Bogdanova
<b>Hotel Drim 16:30-16:45 Coffee break by LOKA</b>		
<b>Congress Hall 16:45-17:45 Keynote speaker (Hall 1) Danilo Gligoroski, Norwegian University of Science and Technology: Cryptography and AI, An LLM Framework For Cryptography Over Chat Channels</b>		
<b>Congress Hall 17:45-19:30 Session 14: Workshop CYBERMACS Student - Chair: Mila Dodevska, Zorica Karapancheva</b>		
17:45-18:00	An Empirical Security Comparison of WebAssembly Runtimes and Docker Containers for Linux-based IoT Edge Devices	Sowat Kheang, Boban Joksimoski, Oguzhan Ceylan
18:00-18:15	Identity and Access Management for Securing Multi-Cloud Access for Agentic AI Workloads	Purujit Srinivasan, Magdalena Kostoska
18:15-18:30	STRIDE-AI: A Threat Modeling Framework for Generative AI Security Assessment	Tsafac Nkombong Regine Cyrille, Franziska Schwarz
18:30-18:45	Evaluating the Reliability of Policy-as-Code-Based Segregation of Duties Enforcement in Hybrid Cloud Environments For The Financial Sector	Lenear Mwondi
18:45-19:00	Evaluating the Reliability of Machine-Learning-Based Detection of IPv6 Neighbour Discovery and Router Advertisement Attacks in a Digital Twin Network	Allan Onyango, Reiner Creutzburg
19:00-19:15	Automated Company Ranking and Segmentation via Open Data Registries	Sandra Ilievska, Zorica Karapancheva, Mila Dodevska, Vlatko Spasev
19:15-19:30		
<b>Piano Hall 17:45-19:30 Session 15: Student - Chair: Martina Toshevska</b>		
17:45-18:00	An Assessment of Urban Tree Canopy Estimation Using Low-Resolution Satellite Imagery and Deep Learning	Dragana Petrova, Viktor Domazetoski, Aleksandra Dedinec
18:00-18:15	Prompt-Based Annotation and Segmentation Framework for Large-Scale Visual Datasets	Stefan Saveski, Diana Kostadinova
18:15-18:30	Hybrid Embedding and Classification Framework for Landmark Recognition with Limited Data	Diana Kostadinova
18:30-18:45	Comparison of ML-based and Classical Feature Selection Methods in ML processes	Martin Janev, Aleksandra Popovska-Mitrovikj
18:45-19:00	Modern Reimplementation of the IKnow Student Information System	Stefan Saveski, Boris Gjorgjievski
19:00-19:15	Comparative Analysis of Convolutional and Transformer-Based Object Detection Approaches for Vehicle Detection in Intelligent Transportation Systems	Dushko Sofronievski, Borjan Ladinski, Marija Medarovska, Viktor Denkovski
19:15-19:30	Managing and automating Kubernetes clusters in a multi-region environment using GitOps	Aleksandar Poposki, Ilija Jolevski
<b>Diplomatic Hall 17:45-19:30 Session 16: Student - Chair: Andreja Naumoski</b>		
17:45-18:00	BedrockKBSelector: A Cost-Aware RAG Evaluation Framework for AWS managed knowledge bases	Stefan Andonov, Bojan Jakimovski, Ana Aubyn, Mario Petkoski, Kiril Zelenkovski
18:00-18:15	A Django-Based Pedestrian Routing System with Dynamic Blockage Management for Urban Navigation in Skopje	Dime Gjorgjiev, Milosh Kirovski, Vlatko Spasev, Marko Petrov

18:15-18:30	Stochastic Modeling of Bitcoin Transaction Load and Mempool Congestion	Hristina Solomanova, Verica Bakeva
18:30-18:45	Deterministic $\pi$ -Parameterized Pseudorandom Number Generators: Construction and Statistical Evaluation	Filip Filipovski, Vesna Dimitrievska Ristovska
18:45-19:00	Testing Large Language Models on the Hamiltonian Cycle Problem: A Verification-Based Benchmark Study	Borjan Dimeski, Jovan Mihov, Marija Mihova
19:00-19:15	Can Large Language Models Solve the Hamiltonian Cycle and Traveling Salesman Problems? A Verification-Driven Study with Exact Algorithms	Borjan Dimeski, Tomi Bogoeski, Ilija Bonevski, Marija Mihova
19:15-19:30	From Minimal Paths to Maximal Cuts: A Dualization-Inspired Multi-State Method	Aleksandar Nikoloski, Aleksandar Angelevski, Marija Mihova

**Director Hall 17:45-18:30 Workshop: EIT funding opportunities for tech development - Speaker: Aleksandar Stamboliev**

**Director Hall 18:30-19:30 Workshop: Vezilka**

**Hotel Drim 20:00 Gala Dinner**

**Sunday 26.04.2026**

**Congress Hall 09:00-11:00 Session 17 Workshop CYBERMACS - Chair: Vesna Dimitrova, Aleksandra Popovska-Mitrovikj**

09:00-09:15	A Prompt Injection Detection Model Addressing Over-Defense	Vaishnavi Santosh Sable, Ivan Chorbev, Hasan Dag
09:15-09:30	Safer Internet for Children: A Unified RoBERTa-based Framework for Multi-Label Harmful Content Detection	Gertrude Nabasirye, Ivan Chorbev
09:30-09:45	Digital Forensics and Cryptographic Analysis: A Comparative Study of Password Hashing Resilience in Modern Linux Environments	Gertrude Nabasirye, Vesna Dimitrova
09:45-10:00	Comparative Study of Machine Learning Models for IoT Network Anomaly Detection	TIONGE MUGHOGHO
10:00-10:15	Securing the Agentic Backbone: A Literature Review of Security Challenges in the Model Context Protocol	Andres Marcelo Ortiz Jimenez, Mila Dodevska, Zorica Karapancheva, Zhivko Atanaskoski, Vesna Dimitrova
10:15-10:30	Anomaly Detection in IoT Networks: A Focused Survey on Federated, Privacy-Aware, and Adaptive Learning Models	Sristi Mitra, Vesna Dimitrova, Aleksandra Popovska-Mitrovikj, Mila Dodevska, Zorica Karapancheva, Zivko Atanaskoski
10:30-10:45	Browser Artifact Analysis for MFA Login Forensics in Modern Web Environments	Diana Orozek kyzy
10:45-11:00		

**Piano Hall 09:00-11:00 Session 18 Workshop CYBERMACS - Chair: Hristina Mihajloska, Magdalena Kostoska**

09:00-09:15	A Systematic Survey of Vulnerability Detection Techniques for JavaScript Web Applications	Simran Shilpakar, Boban Joksimoski
09:15-09:30	Telegram Forensics under End-to-End Encryption (E2EE): Artifact Analysis on Android Device	Sowat Kheang, Vesna Dimitrova
09:30-09:45	An Empirical Study of the Privacy-Utility Trade-off in Differentially Private Classifiers	Zivko Atanaskoski, Amar Kumar Mandal, S M Dedar Alam, Bimbo Lawrence Damitan, Bisola Favour Adediji, Zorica Karapancheva, Mila Dodevska, Vesna Dimitrova
09:45-10:00	Intelligent REST API Testing: A Literature Review on Dependency Mapping, False Positive Reduction, and Explainable Root Cause Analysis	Meli Imelda, Boro Jakimovski
10:00-10:15	Reducing LLM Context Noise with Ontology-Guided Retrieval in Educational Knowledge Bases	Tim Garbe, Kendrick Bollens, Klaus Schwarz
10:15-10:30	Verifiable Passkey: The Decentralized Authentication Standard	ADITYA MITRA, Sibi Chakkaravarthy S., Reiner Creutzburg
10:30-10:45	/dev/SDB: Software Defined Boot – A novel standard for diskless booting anywhere and everywhere	ADITYA MITRA, Hamza Haroon, Amaan Rais Shah, Mohammad Elham Rasooli, Bogdan Itsam Dorantes Nikolaev, Tuğçe Ballı
10:45-11:00	Human Discovery and Footprinting through the comparison of Large Language Models Versus Traditional OSINT Techniques	Daniil Tashkan, Klaus Schwarz

**Diplomatic Hall 09:30-11:00 Workshop: Improvement of the teaching process: quality, didactic and inclusivity**

**Director Hall 10:00-11:00 Workshop: Vezilka**

**Congress Hall 11:00-12:00 Closing Ceremony**