

SLOVENIAN CONFERENCE ON ARTIFICIAL INTELLIGENCE

SLOVENSKA KONFERENCA O UMETNI INTELIGENCI

Sreda, 8th October 2025 /Sreda, 8. oktober 2025

Great Lecture Hall / Velika predavalnica

Link for online attendance / Povezava za spletno udeležbo:

<https://zoom.us/j/98279535600>

9:00 – 10:10	Conference opening / Otvoritev konference Chair / Vodi: Opening address / Pozdravni nagovor Mojca Štruc, Acting director-general of the Digital Society Directorate of Republic of Slovenia / v. d. generalnega direktorja Direktorata za digitalno družbo Republike Slovenije Keynote / Vabljeni predavanji: Eva Tuba <i>Abstract</i>
10:10 – 11:00	Session A / Sekcija A Chair / Vodi: Marko Bohanec, Uroš Rajkovič and Vladislav Rajkovič Utilizing Large Language Models for Supporting Multi-Criteria Decision Modelling Method DEX Mariša Ratajec, Anton Gradišek and Nina Reščič Mapping medical procedure codes using language models Junoš Lukan, Maori Inagawa and Mitja Lustrek Extracting Structured Information About Food Loss and Waste Measurement Practices Using Large Language Models: A Feasibility Study
11:00 – 11:30	Break / Odmor

11:30 – 13:00	Session B / Sekcija B Chair / Vodi: • Rok Rajher and Jure Žabkar Automated Explainable Schizophrenia Assessment from Verbal-Fluency Audio • Mila Marinković and Jure Žabkar Eye-Tracking Explains Cognitive Test Performance in Schizophrenia • Zoja Anžur, Gašper Slapničar and Mitja Luštrek Thermal Camera-Based Cognitive Load Estimation: A Non-Invasive Approach • Matej Jelenc, Miljana Shulajkovska, Rok Jurič and Anton Gradišek Prediction of Root Canal Treatment Using Machine Learning • Nina Reščič, Marko Jordan, Sebastjan Kramar, Ana Krstevska, Marcel Založnik, Lotte van der Jagt, Harm Op den Akker, Martijn Vastenburg, Valentina Di Giacomo, Elena Mancuso, Dario Fenoglio, Gabriele Dominici and Mitja Luštrek SmartCHANGE Risk Prediction Tool: Next-Generation Risk Assessment for Children and Youth
13:00 – 14:00	Lunch break / Odmor za kosilo
14:00 – 15:30	Session C / Sekcija C Chair / Vodi: • Estefanía Žugelj Tapia, Borut Kirn and Sašo Džeroski Interpretable Predictive Clustering Tree for Post-Intubation Hypotension Assessment • Blaž Dobravec and Jure Žabkar Explaining Deep Reinforcement Learning Policy in Distribution Network Control • Primoz Kocuvan, Vinko Longar and Rok Struna Predictive Maintenance of Machines in LABtop Production Environment • Vid Nemec, Gašper Slapničar and Mitja Luštrek Data-Driven Evaluation of Truck Driving Performance with Statistical and Machine Learning Methods • Alex Romanova GNN Fusion of Voronoi Spatial Graphs and City–Year Temporal Graphs for Climate Analysis
15:30 – 16:00	Break / Odmor

16:00 – 17:00	Session D – student papers / Sekcija D – študentski prisrevki Chair / Vodi: • Anna-Katharina Herke Leveraging AI in Melanoma Skin Cancer Diagnosis: Human Expertise vs. Machine Precision • Nina Rechberger AI-Enabled Dynamic Spectrum Sharing in the Telecommunication Sector – Technical Aspects and Legal Challenges • Žiga Kolar, Thibault Comte, Yanny Hassani, Hugues Louvancour and Matjaž Gams Machine Learning for Cutting Tool Wear Detection: A Multi-Dataset Benchmark Study Toward Predictive Maintenance
17:00–18:00	Chair / Vodi: • AI Art <i>Short description</i>

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Četrtek, 9th October 2025 / četrtek, 9. oktober 2025

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Link for online attendance / Povezava za spletno udeležbo: <https://zoom.us/j/98214582843>

9:00 – 10:00	Session on Slovenian AI Factory / Sekcija o Slovenski tovarni umetne inteligence Chair / Vodi: - SLAIF in general Gašper Slapničar Foundation models for sensor data
10:00 – 11:00	Session A / Sekcija A Chair / Vodi: Žan Ambrožič, Lorenzo Bianco, Rok Šturm, David Susič, Maj Smerkol and Anton Gradišek Detecting Pollinators from Stem Vibrations Using a Neural Network Ryo Yagi, David Susič, Maj Smerkol, Miha Finžgar and Anton Gradišek Development of a Lightweight Model for Detecting Solitary-Bee Buzz Using Pruning and Quantization for Edge Deployment David Susič, Maria Luisa Buchaillot, Miguel Crozzoli, Calum Builder, Sevasti Maistrou, Anton Gradišek and Dragana Vukašinović Towards Anomaly Detection in Forest Biodiversity Monitoring: A Pilot Study with Variational Autoencoders
11:00 – 11:30	Break / Odmor
11:30 – 12:15	Session B / Sekcija B Chair / Vodi: Jordan Cork, Andrejaana Andova, Pavel Krömer, Tea Tušar and Bogdan Filipič Landscape-Aware Selection of Constraint Handling Techniques in Multiojective Optimisation Fatemeh Azad and Matjaž Kukar: A Critical Perspective on MNAR Data Imputation, Generation, and the Path Toward a Unified Framework Best paper award presentation / Podelitev nagrade za najboljši prispevek