INFORMATION SOCIETY 2024
27th International multiconference
7th – 11th October 2024
"Jožef Stefan" Institute, Jamova cesta 39, Ljubljana, Slovenia

IS INFORMATION SOCIETY

SLOVENIAN CONFERENCE ON ARTIFICIAL INTELLIGENCE
SLOVENSKA KONFERENCA O UMETNI INTELIGENCI

Thursday, 10th October 2024 / Četrtek, 10. oktober 2024

Great Lecture Hall / Velika predavalnica

Link for online attendance / Povezava za spletno udeležbo:
https://zoom.us/j/98949876297

Note that the link is different each day / Pozor, povezava je vsak dan drugačna

9:00 – 11:00	**Session A / Sekcija A**
	Chair / Vodi: Andrejaana Andova
	• **Sebastijan Trojer, Zoja Anžur, Mitja Luštrek, Gašper Slapničar** Comparison of Feature- and Embedding-based Approaches for Audio and Visual Emotion Classification
	• **Tomi Božak, Mitja Luštrek, Gašper Slapničar** Feature-Based Emotion Classification Using Eye-Tracking Data
	• **Ana Krstevska, Sebastjan Kramar, Hristijan Gjoreski, Martin Gjoreski, Junoš Lukan, Sebastijan Trojer, Mitja Luštrek, Gašper Slapničar** Multi-modal Data Collection and Preliminary Statistical Analysis for Cognitive Load Assessment
	• **Katja Bengeri, Junoš Lukan, Mitja Luštrek** Choosing Features for Stress Prediction with Machine Learning
	• **Emilija Kizhevska, Mitja Luštrek** Predicting Mental States During VR Sessions Using Sensor Data and Machine Learning
	• **Žiga Kolar, David Susič, Martin Konečnik, Domen Prestor, Tomo Pejanovič Nosaka, Bajko Kulauzović, Jan Kalin, Matjaž Gams** Performance Comparison of Axle Weight Prediction Algorithms on Time-Series Data
	• **Lea Gašparič, Anton Kokalj, Sašo Džeroski** Predicting hydrogen adsorption energies on platinum nanoparticles and surfaces with machine learning
11:00 – 11:30	**Break / Odmor**

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11:30 – 12:30	**Session B / Sekcija B**
	Chair / Vodi: Gašper Slapničar
	• **Keynote / Vabljeno predavanje:** **Iolanda Leite** Robots (Still) Need Humans in the Loop
	As robots become increasingly prevalent in people's lives, a key challenge remains: ensuring their models consistently align with how humans represent and prioritize information. This is particularly important in situations where robots interact with or operate around humans. In this talk, I will present current research aimed at developing intelligent robotic systems that accurately learn human intentions, informed by human knowledge while addressing the challenge of overly relying on human feedback. I will also discuss limitations and opportunities within the current state of AI, arguing that a deeper understanding of how these systems perceive, reason, and act within their social context can foster more natural and efficient human-robot interactions.
12:30 – 13:30	**Lunch break / Odmor za kosilo**
13:30 – 15:00	**Session C / Sekcija C**
	Chair / Vodi: Matjaž Kukar
	• **Maj Zirkelbach, Aleksander Sadikov** Puzzle Generation for Ultimate-Tic-Tac-Toe
	• **Marcel Založnik, Kristjan Šoln** Multi-Agent System for Autonomous Table Football: A Winning Strategy
	• **Mila Nedić, Tea Tušar** Minimizing Costs and Risks in Demand Response Optimization: Insights from Initial Experiments
	• **Tea Tušar, Jordan Cork, Andrejaana Andova, Bogdan Filipič** Optimization Problem Inspector: A Tool for Analysis of Industrial Optimization Problems and Their Solutions
	• **Ervin Vladić, Dželila Mehanović, Elma Avdić** Predictive Modeling of Football Results in the WWIN League of Bosnia and Herzegovina
15:00 – 15:30	**Break / Odmor**

15:30 – 17:30	**Session D / Sekcija D**
	Chair / Vodi: Rok Hafner
	• **Public debate / Javna razprava:** Development of artificial intelligence brings more good than harm / Razvoj umetne inteligence prinaša več koristi kot škode *The debate will be carried out in the World Schools Debating Championships format, where each side is represented by three speakers, each with an eight-minute speech. The high-school students, who were prepared by Pro et contra, Institute for culture of dialogue, will present arguments for and against the title statement regardles of their own beliefs, since they did not choose which side to defend.* *The debate participants will be Lara Livaković Kočevar (Gimnazija Kranj), Lana Avramović (Gimnazija Bežigrad), Ajda Glavač (Gimnazija in ekonomska srednja šola Trbovlje), Ana Neža Detela (Gimnazija Lava Celje), Lucija Strniša (I. gimnazija v Celju) in Aleks Grof (Dvojezična srednja šola Lendava).* *Razprava bo potekala po formatu World Schools Debating Championships, kjer bodo na vsaki strani trije govorci, vsak s prispevkom, dolgim osem minut. Dijaki, ki so se pripravljali pod mentorstvom Zavoda Za in proti, zavoda za kulturo dialoga, bodo ne glede na lastna prepričanja predstavili argumente za in proti, saj niso sami izbrali, katero stran bodo zagovarjali.* *V debati bodo sodelovali Lara Livaković Kočevar (Gimnazija Kranj), Lana Avramović (Gimnazija Bežigrad), Ajda Glavač (Gimnazija in ekonomska srednja šola Trbovlje), Ana Neža Detela (Gimnazija Lava Celje), Lucija Strniša (I. gimnazija v Celju) in Aleks Grof (Dvojezična srednja šola Lendava).*

Friday, 11th October 2024 / petek, 11. oktober 2024

Physics Seminar Room / Fizikalni seminar

Link for online attendance / Povezava za spletno udeležbo:
https://zoom.us/j/93471649754

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9:00 – 11:00	**Session A / Sekcija A**
	Chair / Vodi: Marko Bohanec
	• **Miha Hafner, Marko Bohanec** Towards a Decision Support System for Project Planning: Multi-Criteria Evaluation of Past Projects Success
	• **Taja Kuzman, Tanja Pavleska, Urban Rupnik, Primož Cigoj** PandaChat-RAG: Towards the Benchmark for Slovenian RAG Applications
	• **Lazar Đoković, Marko Robnik-Šikonja** Sarcasm Detection in a Less-Resourced Language
	• **Maj Smerkol, Rok Susič, Mariša Ratajec, Helena Halbwachs, Anton Gradišek** Speech-to-Service: Using LLMs to Facilitate Recording of Services in Healthcare
	• **Aleksander Piciga, Matjaž Kukar** Predicting Health-Related Absenteeism with Machine Learning: A Case Study
	• **Marko Jordan, Nina Reščič, Sebastjan Kramar, Marcel Založnik, Mitja Luštrek** SmartCHANGE Risk Prediction Tool: Demonstrating Risk Assessment for Children and Youth
	• **Miljana Shulajkovska, Matej Jelenc, Jitenndra Jonnagaddala, Anton Gradišek** Biomarker Prediction in Colorectal Cancer Using Multiple Instance Learning
	Best paper award presentation / **Podelitev nagrade za najboljši prispevek**