

ICIST 2025 Conference program

Sunday 9.3.2025

17:00-19:00 Opening and keynotes (Room Pančić)

Pawel Herman	Division of Computational Science and Technology, School of Electrical Engineering and Computer Science, KTH and Digital Futures
Miroslav Trajković	Zebra Technologies Corporation, USA

20:00-22:00 YUINFO&ICIST Wine Track (Room Pančić)

Monday 10.3.2025

13:30-15:30 Special track: Autonomous driving (Room Pančić 2)

17	A Real-Time Detector for Road Damage Detection	Fujiang Yu (Harbin Institute of Technology)*; Jing Jin (Harbin Institute of Technology)
19	A Semantic Segmentation-Based Vision Navigation Method for Seedling Inspection	Libo Zhang (Harbin Institute of Technology)*; Jing Jin (Harbin Institute of Technology); Yanshu Ni (Harbin Institute of Technology); Yi Liu (Harbin Institute of Technology); Suxun Zhu (Harbin Institute of Technology); Longfei Ci (Harbin Institute of Technology); Delin Qu (Harbin Institute of Technology)
20	Transformer-Based Vehicle Trajectory Generation Model	阎万 (Harbin Institute of Technology)*
21	HiFiAgent: High Fidelity Interactive Agent Simulation for Autonomous Driving	Jinlong Cui (Harbin Institute of Technology)*; Jianxun Cui (Harbin Institute of Technology); Anyang Su (Jilin University); Xin Liu (Tsinghua University); Miroslav Milovanovic (University of Niš, Faculty of Electronic Engineering, Department of Control Systems); Marko Milojković (University of Niš, Faculty of Electronic Engineering, Department of Control Systems)
22	High-fidelity simulation model of dynamic traffic flow based on Diffusion model	Huidong Gao (Harbin Institute of Technology)*; Jianxun Cui (Harbin Institute of Technology); Anyang Su (College of Software, Jilin University); Xing Liu (Department of Hydraulic Engineering, Tsinghua University, Beijing, China); Stanisa Peric (University of Nis, Faculty of Electronic Engineering, Department of Control Systems)
23	Initial scenario generation model for testing autonomous vehicle based on probabilistic graphical model	Qirui Hou (Harbin Institute of Technology); Jianxun Cui (Harbin Institute of Technology)*; Anyang Su (College of Software, Jilin University); Xing Liu (Department of Hydraulic Engineering, Tsinghua University); Miroslav Milovanovic (University of Niš, Faculty of Electronic Engineering, Department of Control Systems)
24	EMIFF-Sim: Efficient Multi-Information Fusion Framework for High-Fidelity Trajectory Simulation	Yuxuan Wu (Harbin Institute of Technology)*; Jianxun Cui (Harbin Institute of Technology); Xing Liu (Tsinghua University, Department of Hydraulic Engineering); Anyang Su (Jilin University, College of Software); Marko Milojković (University of Niš, Faculty of Electronic Engineering, Department of Control Systems); Miroslav Milovanovic (University of Niš, Faculty of Electronic Engineering, Department of Control Systems)

25	A Novel Auto-Encoder Method For Infrared and Visible Multi-Channel Image Fusion Based on Deep Learning	Longfei Ci (哈尔滨工业大学)*; Jing Jin (哈尔滨工业大学); Yanshu Ni (哈尔滨工业大学); Suxun Zhu (哈尔滨工业大学); Libo Zhang (哈尔滨工业大学); Delin Qu (哈尔滨工业大学)
26	Traj-MLLM: A multi-modal large language model based method for interactive behavior extraction	Mingxuan Mu (Harbin Institute of Technology)*; Jianxun Cui (Harbin Institute of Technology); Anyang Su (College of Software, Jilin University); Xing Liu (Department of Hydraulic Engineering, Tsinghua University); Stanisa Peric (University of Niš, Faculty of Electronic Engineering, Department of Control Systems)
28	ICE-Skills: A Curling Robot Skill Pre-training Framework Based on Multimodal Data and Instruction Re-annotation	Yanshu Ni (Harbin Institute of Technology)*; Jing Jin (Harbin Institute of Technology); Libo Zhang (Harbin Institute of Technology); Longfei Ci (Harbin Institute of Technology); Suxun Zhu (Harbin Institute of Technology); Delin Qu (Harbin Institute of Technology)
67	Approximation of vehicle route costs based on a deep learning	Karlo Bala (The Institute for Artificial Intelligence Research and Development of Serbia)*; Dejan Brčanov (Faculty of Economics, University of Novi Sad); Nebojša Gvozdenović (Faculty of Economics, University of Novi Sad); Andrea Rožnjik (Faculty of Civil Engineering Subotica)

15:30-17:00 Special track: Digital Water (Room Pančić 1)

32	Spatio-Temporal Multy-day Streamflow Forecasting Using Graph Neural Networks	Ana Dodig (The Institute for Artificial Intelligence of Serbia)*; Luka Vinokic (The Institute for Artificial Intelligence of Serbia); Milan Dotlic (The Institute for Artificial Intelligence of Serbia); Vanja Svenda (The Institute for Artificial Intelligence of Serbia); Veljko Prodanovic (The Institute for Artificial Intelligence of Serbia); Milan Stojkovic (The Institute for Artificial Intelligence of Serbia)
36	Machine Learning Techniques for Daily Reservoir Inflow Forecasting: A Case Study on Drina-Lim Hydropower Plants	Luka Vinokić (Istraživačko - razvojni institut za veštačku inteligenciju Srbije)*; Milan Dotlić (Istraživačko - razvojni institut za veštačku inteligenciju Srbije); Ana Dodig (Istraživačko - razvojni institut za veštačku inteligenciju Srbije); Vanja Švenda (Istraživačko - razvojni institut za veštačku inteligenciju Srbije); Veljko Prodanović (Istraživačko - razvojni institut za veštačku inteligenciju Srbije); Milan Stojković (Istraživačko - razvojni institut za veštačku inteligenciju Srbije)
55	Assimilation method for hydrology models: FEWS Kolubara case study	Luka Stojadinović (Jaroslav Černi Water Institute)*; Miloš Milašinović (University of Belgrade, Faculty of Civil Engineering); Darko Janjić (PWC Srbijavode); Nikola Milivojević (Jaroslav Černi Water Institute)
79	DIGIDRAIN: City-scale digital twins for urban drainage systems	Miloš Milašinović (University of Belgrade - Faculty of Civil Engineering)*; Anja Randjelović (University of Belgrade - Faculty of Civil Engineering); Damjan Ivetic (University of Belgrade - Faculty of Civil Engineering); Robert Ljubičić (University of Belgrade - Faculty of Civil Engineering); Željko Vasilić (University of Belgrade - Faculty of Civil Engineering); Ognjen Govedarica (University of Belgrade - Faculty of Civil Engineering); Ljiljana Brajović (University of Belgrade - Faculty of Civil Engineering); Milan Gocić (University of Niš - Faculty of Civil Engineering and Architecture); Luka Vinokić (The Institute for Artificial Intelligence Research and Development of Serbia); Veljko Prodanović (The Institute for Artificial Intelligence Research and Development of Serbia)
89	High Performance Computing Platform for Resilience Assessment in Dams	Vladimir Milivojević (Jaroslav Černi Water Institute)*; Vukašin Čirović (Jaroslav Černi Water Institute); Uroš Mirković (Jaroslav Černi Water Institute); Milan Stojković (The Institute for Artificial Intelligence of Serbia)
92	SSIMS-Flow: Towards user-friendly image velocimetry	Robert Ljubičić (Faculty of Civil Engineering, University of Belgrade)*; Budo Zindović (Faculty of Civil Engineering, University of Balgrade); Silvano Fortunato Dal Sasso (DIUSS, University of Basilicata)

93	AI-based software platform for flood prediction and prevention	Boško Laković (Vodena, Kragujevac); Dušan Stefanović (Vodena, Kragujevac); Nikola Bojović (Vodena, Kragujevac); Boban Stojanović (University of Kragujevac, Faculty of Science)*
----	--	--

15:30-17:00 Special track: Generative AI and Large Language Models, Session 1 (Room Pančić 2)

27	Evaluation of Preprocessing and Classification of Court Decisions Using ChatGPT and Neural Networks	Jelena Matković (University of Novi Sad)*; Marko Marković (University of Novi Sad)
29	Software Solution for Recommending Court Rulings using Case Similarity	Mihaela Osmajić (Faculty of Technical Sciences, University of Novi Sad)*; Marko Marković (Faculty of Technical Sciences, University of Novi Sad); Goran Savić (Faculty of Technical Sciences, University of Novi Sad); Stevan Gostojić (Faculty of Technical Sciences, University of Novi Sad); Milan Segedinac (Faculty of Technical Sciences, University of Novi Sad)
31	Domain adaptation of large language model tokenizers - a comparison of performances	Miloš Bogdanović (Faculty of Electronic Engineering, University of Nis)*; Milena Frtunić Gligorijević (Faculty of Electronic Engineering, University of Nis); Jelena Kocić (Faculty of Electronic Engineering, University of Nis); Leonid Stoimenov (Faculty of Electronic Engineering, University of Nis)
38	Data-centric ASR for Serbian Language	Vladimir Vincan (The Institute for Artificial Intelligence Research and Development of Serbia)*
41	A Comprehensive Review of Large Language Models for Document-Based Question Answering	Matija Dodović (School of Electrical Engineering, University of Belgrade)*; Janko Tufegdžić (School of Electrical Engineering, University of Belgrade); Luka Hrvachević (School of Electrical Engineering, University of Belgrade); Dražen Drašković (School of Electrical Engineering, University of Belgrade)
50	Plagiarism Detection of Student Assignments: The Application of Retrieval-Augmented Generation and Vector Database	Elena Akik (University of Novi Sad, Faculty of Technical Sciences)*; Marko Vještica (University of Novi Sad, Faculty of Technical Sciences); Miroslav Tomić (University of Novi Sad, Faculty of Technical Sciences); Jelena Slivka (University of Novi Sad, Faculty of Technical Sciences); Milan Čeliković (University of Novi Sad, Faculty of Technical Sciences); Slavica Kordić (University of Novi Sad, Faculty of Technical Sciences)
51	Generative Artificial Intelligence as a Tool for Improving the Accuracy of Classification Models	Ulfeta Marovac (State university of Novi Pazar)*; Aldina Avdić (State university of Novi Pazar)
52	Automated Chemical Research with Multi-Agent Collaboration and Molecular Transformers in a Case Study of Aspirin Synthesis	Ivana Krtolica (The Institute for Artificial Intelligence Research and Development of Serbia)*
58	Application of a multi-agent system for monitoring market trends on the example of cryptocurrencies	Ulfeta Marovac (State university of Novi Pazar)*; Dalila Pramenković (State university of Novi Pazar); Admir Hamzagić (State university of Novi Pazar)

17:00-18:00 Poster session (Room Pančić Lobby)

15	IT support for customer relationship management according to the guidelines of the ISO 10001 standard	Jelena Ruso (Faculty of Organizational Sciences, University of Belgrade)*
35	Implementation of Data Management Overlay Service in Distributed Cloud	Milena Jelić (Faculty of Technical Sciences, University of Novi Sad)*; Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)
37	Tool for automating template changes of static web pages and sending notifications via email	Miloš Milošević (School of Electrical Engineering, University of Belgrade)*; Marija Punt (School of Electrical Engineering, University of Belgrade)
40	Social Engineering Challenges	Aleksandar Bulajic (n/a)*
42	Development of a MACH-Based Virtual Laboratory for AI-Driven Digital Signal Processing in IoT	Gokmen Katipoglu (Institute of Science, Dokuz Eylul University, Tinaztepe Kampusu, Buca, Izmir 35390); Semih Utku (Department of Computer Engineering, Faculty of Engineering, Dokuz Eylul University, Tinaztepe Kampusu, Buca, Izmir 35390); Edis Mekic (State University of Novi Pazar)*
43	A Deep Learning Approach to Detecting Aggressive Drivers Using Behavioral and Environmental Metrics	Milena Nikolic (The Academy of Applied Technical and Preschool Studies)*; Milan Stankovic (The Academy of Applied Technical and Preschool Studies); Milos Stojanovic (The Academy of Applied Technical and Preschool Studies); Marina Marjanovic (Singidunum University)
70	Development of a Rule-Based Knowledge System for Lung Cancer Diagnosis	Branislav Stojković (University of Novi Sad, Faculty of Technical Sciences, Novi Sad); Dragana Filipović (University of Novi Sad, Faculty of Technical Sciences, Novi Sad); Anđela Trajković (University of Novi Sad, Faculty of Technical Sciences, Novi Sad); Siniša Nikolić (University of Novi Sad, Faculty of Technical Sciences, Novi Sad)*
77	Digital Agriculture and Land Consolidation	Žarko Nestorović (EPS AD Belgrade)*
83	Localization, Communication, and Unified Sensing (LOCUS)	Vladimir Đapić (The institute for artificial intelligence research and development of Serbia)*
96	Energy and Exergy Analysis of Low Temperature District Heating	Dejan Mitrović (Faculty of Mechanical Engineering, University of Niš); Marko Ignjatović (Faculty of Mechanical Engineering, University of Niš); Ivan Ćirić (Faculty of Mechanical Engineering, University of Niš); Dušan Stojiljković (Faculty of Mechanical Engineering, University of Niš)*
97	Primary Energy Consumption of Hybrid Heat Pump Systems with Cost-Optimal Operation	Mirko Stojiljković (University of Niš, Faculty of Mechanical Engineering in Niš)*; Goran Vučković (University of Niš, Faculty of Mechanical Engineering in Niš); Marko Ignjatović (University of Niš, Faculty of Mechanical Engineering in Niš)

18:30-20:00 Special track: AI & IoT for Smart Industry, Session 1 (Room Pančić 2)

71	Agriculture Meets Artificial Intelligence - Challenges and Current Status in Serbia	Marija Đukić (Faculty of Organizational Sciences, University of Belgrade)*; Aleksandra Sretenović (Faculty of Organizational Sciences, University of Belgrade); Ana Pajić Simović (Faculty of Organizational Sciences, University of Belgrade); Ognjen Pantelić (Faculty of Organizational Sciences, University of Belgrade)
----	---	--

72	Assessment of the Potential of Sentinel-2 Remote Sensing Data for Supporting Logistics Planning and Enhancing Intelligent Transport Systems at Border Crossings in Serbia	Andela Marković (University of Belgrade, School of Electrical Engineering)*; Nenad Gligorić (Zentrix Lab)
76	Enhancing Thermal Imaging Accuracy: Emissivity and Reflected Temperature Estimation for Pipeline Applications	Rajko Turudija (University of Nis - Faculty of Mechanical Engineering)*; Aleksandar Trajković (Faculty of Mechanical Engineering, University of Niš); Dušan Stojiljković (Faculty of Mechanical Engineering, University of Niš); Nikola Ivačko (Faculty of Mechanical Engineering, University of Niš); Milan Banić (Faculty of Mechanical Engineering, University of Niš)
82	Predicting Gas Consumption for Energy Savings and Cost Reduction in District Heating Systems Using Decision Tree Algorithms	Milica Tasic (Faculty of Mechanical Engineering)*; Ivan Ciric (Faculty of Mechanical Engineering); Dejan Mitrovic (Faculty of Mechanical Engineering); Ana Kitic (Faculty of Mechanical Engineering); Marko Ignjatovic (Faculty of Mechanical Engineering); Milica Ciric (Faculty of Civil Engineering and Architecture); Stevica Cvetkovic (Faculty of Electronic Engineering)
84	Synthetic Data for Smart Manufacturing: Opportunities and Challenges	Bojana Bajic (Institute for Artificial Intelligence R&D)*; Milovan Medojevic (Institute for Artificial Intelligence R&D); Theofanis Raptis (Institute of Informatics and Telematics, National Research Council, 56124 Pisa, Italy); Aleksandar Rikalovic (Department of Industrial Engineering and Management, Faculty of Technical Sciences, University of Novi Sad, 21000 Novi Sad, Serbia)
87	Unsupervised Online Detection and Isolation of Abrupt Faults	Nikola Markovic (The Institute for Artificial Intelligence Research and Development of Serbia)*
90	Edge AI for Industry 5.0: Challenges and opportunities	Marko Tošić (The Institute for Artificial Intelligence Research and Development of Serbia); Milovan Medojevic (The Institute for Artificial Intelligence Research and Development of Serbia)*; Bojana Bajić (The Institute for Artificial Intelligence Research and Development of Serbia); Aleksandar Rikalović (The Institute for Artificial Intelligence Research and Development of Serbia)
94	Remote-Controlled Vehicle with Integrated Environmental Vision and Sensing Systems	Mladen Milic (The Institute for Artificial Intelligence Research and Development of Serbia); Milovan Medojevic (The Institute for Artificial Intelligence Research and Development of Serbia)*
95	A Multi-Model Approach for Forecasting Building Heat Demand	Mirko Stojiljković (University of Niš, Faculty of Mechanical Engineering in Niš)*; Marko Ignjatović (University of Niš, Faculty of Mechanical Engineering in Niš); Goran Vučković (University of Niš, Faculty of Mechanical Engineering in Niš); Vladan Jovanović (University of Niš, Faculty of Mechanical Engineering in Niš)

21:00-24:00 YUINFO&ICIST Party, Madicine Band (Pub & Ko, krug Konaka)

Tuesday 11.3.2025

15:30-17:30 Regular session: Software engineering (Room Pančić 1)

3	Enhancing Software Architecture with Ontologies and Controlled Natural Language	Nenad Gligorov (Faculty of Technical Sciences, Novi Sad)*; Milan Segedinac (Faculty of Technical Sciences, Novi Sad)
8	Real Function Approximation Around a Point with Taylor Polynomials Using Custom Machine Code	Andreja Janković (School of electrical engineering, University of Belgrade)*
33	Automated merging of multi-source citation data: an open-source toolkit	Dušan Nikolić (University of Novi Sad)*; Dragan Ivanović (University of Novi Sad)
39	Monitoring the distributed cloud: Metric collection and aggregation	Tamara Ranković (Faculty of Technical Sciences, University of Novi Sad)*; Nemanja Pokornić (Faculty of Technical Sciences, University of Novi Sad); Aleksandar Pavlović (Faculty of Technical Sciences, University of Novi Sad); Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)
47	Scalable and Fast Network Traffic Classification Through Distributed Approximate KNN	Ivan Mršulja (Faculty of Technical Sciences, University of Novi Sad)*; Miloš Popović (Faculty of Technical Sciences, University of Novi Sad); Jelena Slivka (Faculty of Technical Sciences, University of Novi Sad)
54	Stochastic Optimization Algorithms for Determining Optimal Weights in Multi-Criteria Decision Analysis	Igor Jovanović (Institute Mihajlo Pupin)*
57	Decentralized reconfiguration management in distributed clouds	Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)*; Boris Lauš (Faculty of Technical Sciences, University of Novi Sad); Tamara Ranković (Faculty of Technical Sciences, University of Novi Sad)
66	Query Processing on Encrypted Data: A Comparative Study of Modern Approaches	Aleksa Vidaković (Singidunum University)*; Teodor Petrović (Singidunum University); Petar Kresoja (Singidunum University); Mladen Veinović (Singidunum University)
74	Building Blocks for Object-Oriented Refactoring Engines	Balša Šarenac (Faculty of Technical Sciences)*; Stéphane Ducasse (University Lille, Inria, CNRS); Guillermo Polito (University Lille, Inria, CNRS); Gordana Rakić (Faculty of Sciences)
98	Implementation of a web application for creating, editing and managing attack trees	Jelisaveta Jevtić (N/A)*; Žarko Stanisavljević (School of Electrical Engineering, University of Belgrade); Maja Vukasović (School of Electrical Engineering, University of Belgrade)

15:30-17:00 Special track: ICT for health, well-being and sport, Session 1 (Room Pančić 2)

2	Analysis of behavioral patterns in online gambling using artificial	Eleonora Milic (Faculty of Electronic Engineering)*; Bratislav Predic (Faculty of Electronic Engineering); Suzana Tošić Golubović (Faculty Of Medicine)
---	---	---

	intelligence and clinical practice	
6	A Deep Learning Method in the Evaluation of Pain in Horses Based on Facial Expressions Images	Marcelo Rudek (Pontifícia Universidade Católica do Paraná - PUCPR)*; Gabrielle Batista Garcia (Pontifícia Universidade Católica do Paraná - PUCPR); Pedro Michelotto Junior (Pontifícia Universidade Católica do Paraná - PUCPR); Laís Cristine Werner (Pontifícia Universidade Católica do Paraná - PUCPR)
16	STRATIFYHF project - Voice recognition as a novel tool to diagnose heart failure	Djordje Jakovljevic (Coventry University)*
18	A Mixed Reality Approach for Movement Analysis Based on Immersive Simulation in Rehabilitation	Marcelo Rudek (Pontifícia Universidade Católica do Paraná - PUCPR)*; Luiz Carlos Teixeira Junior (Pontifícia Universidade Católica do Paraná - PUCPR)
34	Dataset collection and preliminary machine learning results in darts	Val Vec (Univerza v Ljubljani, Fakulteta za elektrotehniko)*; Sašo Tomažič (Univerza v Ljubljani, Fakulteta za elektrotehniko); Anton Kos (Univerza v Ljubljani, Fakulteta za elektrotehniko); Anton Umek (Univerza v Ljubljani, Fakulteta za elektrotehniko)
44	Development of a Telepsychology Platform Mobile Application for Selective Attention Testing with EEG Monitoring	Filip Djordjevic (Faculty of Technical Sciences, Novi Sad)*; Nikola Petrovic (Faculty of Technical Sciences, Novi Sad); Vasilije Bursac (Faculty of Technical Sciences, Novi Sad)
45	Diffusion-based classifier for mammography images	Nikola Jovišić (The Institute for Artificial Intelligence Research and Development of Serbia)*; Milica Škipina (The Institute for Artificial Intelligence Research and Development of Serbia); Vanja Švenda (The Institute for Artificial Intelligence Research and Development of Serbia); Slobodan Ilić (The Institute for Artificial Intelligence Research and Development of Serbia); Dubravko Čulibrk (The Institute for Artificial Intelligence Research and Development of Serbia)

17:30-18:00 Keynote session (Room Pančić 1)

Marija Janković	CERTH/ITI, Vice Chair in ETSI MTS TC Trusting AI: Testing ML-Based Systems, Conformity Assessment, and Documentation Processes
-----------------	---

17:00-18:30 Special track: Generative AI and Large Language Models, Session 2 (Room Pančić 2)

59	Improving customer service with automatic topic detection in user emails	Bojana Bašaragin (The Institute for Artificial Intelligence Research and Development of Serbia)*; Darija Medvecki (The Institute for Artificial Intelligence Research and Development of Serbia); Gorana Gojić (The Institute for Artificial Intelligence Research and Development of Serbia); Milena Oparnica (The Institute for Artificial Intelligence Research and Development of Serbia); Dragiša Mišković (The Institute for Artificial Intelligence Research and Development of Serbia)
62	Large language models and retrieval augmented generation in education	Dijana Oreski*
68	Learning Word Embeddings using	Ranka Stanković (University of Belgrade, Faculty of Mining and Geology)*; Jovana Radenović (University of Belgrade, Faculty of Mining and Geology); Mihailo Škorić (

	Lexical Resources and Corpora	University of Belgrade, Faculty of Mining and Geology); Marko Putniković (University of Belgrade)
75	srbNLI: Pioneering Natural Language Inference for Serbian	Miloš Košprdić (The Institute for Artificial Intelligence Research and Development of Serbia)*; Adela Ljajić (The Institute for Artificial Intelligence Research and Development of Serbia); Nikola Milošević (The Institute for Artificial Intelligence Research and Development of Serbia)
80	Named Entity Recognition for Serbian Legal Documents: Design, Methodology and Dataset Development	Vladimir Kalušev (The Institute for Artificial Intelligence Research and Development of Serbia)*; Branko Brkljač (Faculty of Technical Sciences, University of Novi Sad)
85	The Evaluation of Retrieval Augmented Generation systems for domain-specific Question Answering in Serbian language	Mina Nikolic (Faculty of Electronic Engineering, Niš, Serbia)*; Aleksandar Stanimirović (Faculty of Electronic Engineering, Niš, Serbia); Leonid Stoimenov (Faculty of Electronic Engineering, Niš, Serbia)
86	LLM-Driven Misconfiguration Detection for Self-Healing Helm Charts	Gorana Radovanovic (Elektronski fakultet)*
99	Expense tracker using LLM: Mobile application with scanning receipts issued in Serbia	Mia Vučinić (School of Electrical Engineering University of Belgrade); Uroš Radenković (School of Electrical Engineering University of Belgrade); Marko Mićović (School of Electrical Engineering University of Belgrade)*; Vladimir Jocović (School of Electrical Engineering University of Belgrade)
100	From Documents to Answers: A University-Focused DBQA System with LLMs	Matija Dodović (School of Electrical Engineering, University of Belgrade)*; Janko Tufegdžić (School of Electrical Engineering, University of Belgrade); Luka Hrvačević (School of Electrical Engineering, University of Belgrade); Dražen Drašković (School of Electrical Engineering, University of Belgrade)

18:00-20:00 Special track: AI & IoT for Smart Industry, Session 2 (Room Pančić 1)

1	On the local feature importance and counterfactuals in heat demand forecasting	Milan Zdravkovic (Faculty of Mechanical Engineering, University of Niš)*
4	Conformal prediction for predictive maintenance applications	Ognjen Kundacina (The Institute for Artificial Intelligence Research and Development of Serbia)*
7	Correlation analysis between sound features and cutting force components in turning process	Vladimir Mitrović (Faculty of Mechanical Engineering, University of Niš, Serbia)*; Milan Zdravković (Faculty of Mechanical Engineering, University of Niš, Serbia); Milan Trifunović (Faculty of Mechanical Engineering, University of Niš, Serbia); Predrag Janković (Faculty of Mechanical Engineering, University of Niš, Serbia); Miloš Madić (Faculty of Mechanical Engineering, University of Niš, Serbia)
30	IoT platform architecture for interoperability in smart building energy management	Lazar Berbakov (Institut Mihajlo Pupin)*; Nikola Tomašević (Institut Mihajlo Pupin); Marko Batić (Institut Mihajlo Pupin)
48	Estimation of Total Operation Time in Turning of a Part With Complex Geometry Using Regression	Aleksandar Trajković (Faculty of Mechanical Engineering, Niš)*; Miloš Madić (Faculty of Mechanical Engineering, Niš); Milan Trifunović (Faculty of Mechanical Engineering, Niš)

	Machine Learning Models	
53	Immersive CNC Lathe Operation Training: A Virtual Reality Approach for Education	Rajko Turudija (University of Nis - Faculty of Mechanical Engineering)*; Nikola Vitković (Faculty of Mechanical Engineering, University of Niš); Miodrag Manić (Faculty of Mechanical Engineering, University of Niš); Marek Chodnicki (Gdańsk University of Technology, Faculty of Mechanical Engineering and Ship Technology, Institute of Mechanics and Machine Design); Miloš Stojković (Faculty of Mechanical Engineering, University of Niš)
56	Toward Advancing Industrial Cyber-Physical Data Utilization and Resilience through Pervasive Intelligence	Theofanis Raptis (CNR)*; Bojana Bajic (IVI); Milovan Medojevic (IVI); Aleksandar Rikalovic (IVI)
61	Benchmarking the Efficiency of Energy Use in Smart Homes	Marko Jelić (Mihajlo Pupin Institute)*; Dea Jelić (Mihajlo Pupin Institute); Lazar Berbakov (Mihajlo Pupin Institute); Marko Batić (Mihajlo Pupin Institute)
63	Reinforcement Learning-Based Smart Temperature Control for Buffer Tanks in HVAC Systems	Dea Jelić (Institute Mihajlo Pupin)*; Marko Jelic (Institute Mihajlo Pupin); Katarina Stankovic (Institute Mihajlo Pupin); Marko Batic (Institute Mihajlo Pupin)
65	Immersive Virtual Reality Simulator for Smart Grid Design, Operation, and Optimization	Nikola Petrovic (Faculty of Technical Sciences, University of Novi Sad)*; Filip Đorđević (Faculty of Technical Sciences, University of Novi Sad); Vasilije Bursać (Faculty of Technical Sciences, University of Novi Sad)
69	Explainable AI for District Heating Systems: Improving Interpretability and Decision-Making	Valentina Nejkovic (Faculty of Electronic Engineering)*; Lazar Vuckovic (Faculty of Electronic Engineering)

18:30-20:00 Special track: ICT for health, well-being and sport, Session 2 (Room Pančić 2)

46	Opportunities for AI Implementation in Pharma 4.0	Marija Branković (Medicines and Medical Devices Agency of Serbia); Tatjana Stojadinovic (Medicines and Medical Devices Agency of Serbia); Ilija Antović (University of Belgrade, Faculty of Organizational Sciences)*
60	A Blockchain-Based Software System for Automated Medical Record Exchange	Vladimir Jovanovic (Faculty of Technical Science, Novi Sad)*; Nikola Todorovic (Faculty of Technical Science, Novi Sad); Miroslav Tomic (Faculty of Technical Science, Novi Sad); Milan Čelikovic (Faculty of Technical Science, Novi Sad); Vladimir Dimitrieski (Faculty of Technical Science, Novi Sad)
64	A Rule-Based System for Perioperative Cardiovascular Risk Assessment	Danica Gazdić (University of Novi Sad, Faculty of Technical Sciences, Novi Sad); ANĐELA TRAJKOVIĆ (University of Novi Sad, Faculty of Technical Sciences, Novi Sad)*; Siniša Nikolić (University of Novi Sad, Faculty of Technical Sciences, Novi Sad)
73	Aquatic Haptic Interface for Biomechanical Feedback: System Design and Development	Matevž Hribernik (University of Ljubljana, Faculty of Electrical Engineering)*; Sašo Tomažič (University of Ljubljana, Faculty of Electrical Engineering); Anton Kos (University of Ljubljana, Faculty of Electrical Engineering)
81	Low-Latency Transmission of Inertial Sensor Data with Consumer-Grade Software-Defined Radio	Timotej Gruden (University of Ljubljana, Faculty of Electrical Engineering)*
88	Potential applications of probability sampling techniques for measuring	Dragana Radojicic (Faculty of Economics and Business, University of Belgrade, Serbia)*

	global trends in mental health disorders	
91	Predicting Diabetes Using Machine Learning: A Cross-Platform Study Between Python and ML.NET	Andelija Đorđević (Faculty of Electronic Engineering, University of Niš)*; Aleksandar Milenković (Faculty of Electronic Engineering, University of Niš); Petar Rajković (Faculty of Electronic Engineering, University of Niš); Dragan Janković (Faculty of Electronic Engineering, University of Niš)