

# ICIST 2026 Conference program

## Sunday, 8.3.2026

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

Dorđe Jakovljević, Coventry University, United Kingdom

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

## Monday, 9.3.2026

15:30-17:30 Software Engineering 1 (Room Pančić 1)

1	Parallel computing in solving Fresnel integrals using different numerical methods	Sanja Đurović (Prirodno-matematički fakultet, Univerzitet u Prištini); Časlav Stefanović (Prirodno-matematički fakultet, Univerzitet u Prištini); Marko Smilić (Prirodno-matematički fakultet, Univerzitet u Prištini); Dejan Milić (Elektronski fakultet Niš, Univerzitet u Nišu); Milan Savić (Prirodno-matematički fakultet, Univerzitet u Prištini)
3	Framework for Container Management in Distributed Cloud	Miloš Djurić (Faculty of Technical Sciences, University of Novi Sad); Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)
14	BAB Core Ontology: A Formal Description Logic-Based Platform Independent Model for Enterprise Information Systems	Borivoj Bogdanović (Singidunum university); Vidan Marković (Singidunum university); Milan Segedinac (Faculty of Technical Sciences, University of Novi Sad); Zora Konjović (Singidunum university)
18	Bridging Design and Execution: A Visual Graph Editor for Edge and Cloud Workflows	Katarina-Glorija Grujić (University of Novi Sad, Faculty of Technical Sciences); Nikola Stanković (University of Belgrade, School of Electrical Engineering); Maja Vukasović (University of Belgrade, School of Electrical Engineering); Miloš Simić (University of Novi Sad, Faculty of Technical Sciences)
24	CLI Tool for Automated Creation of Test Environments for Distributed Cloud Computing Platform	Rade Pejinović (Faculty of Technical Sciences, University of Novi Sad); Tamara Ranković (Faculty of Technical Sciences, University of Novi Sad); Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)
31	Towards Automated Semantic Mapping Between Structural Elements of Heterogeneous Data Sources and Measurable Business Indicators	Miroslav Tomić (University of Novi Sad, Faculty of Technical Sciences); Marko Vještica (University of Novi Sad, Faculty of Technical Sciences); Nikola Todorović (University of Novi Sad, Faculty of Technical Sciences); Dušan Gajić (University of Novi Sad, Faculty of Technical Sciences); Vladimir Dimitrieski (University of Novi Sad, Faculty of Technical Sciences)
32	Service Health-Check Framework for Distributed Cloud Computing	Stefan Pejinović (Faculty of Technical Sciences, University of Novi Sad); Tamara Ranković (Faculty of Technical Sciences, University of Novi Sad); Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)

## 17:30-20:00 Health (Room Pančić 1)

16	Transferability of few-shot person identification methods across sports	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)
25	Head Movement and Gaze Patterns as Predictors of Motion Sickness in Autonomous Driving Simulation	Simon Pestotnik (Univerza v Ljubljani, Fakulteta za elektrotehniko); Sara Stančin (Univerza v Ljubljani, Fakulteta za elektrotehniko); Timotej Gruden (Univerza v Ljubljani, Fakulteta za elektrotehniko); Sašo Tomažič (Univerza v Ljubljani, Fakulteta za elektrotehniko); Jaka Sodnik (Univerza v Ljubljani, Fakulteta za elektrotehniko)
33	RehabVision: An Explainable AI Platform for Pervasive, Personalised Knee Rehabilitation with Real-Time Biofeedback from Consumer Video	Martin Štufi (Solutia s.r.o.); Boris Bačić (Auckland University of Technology)
49	Accuracy of remote photoplethysmography algorithms for heart rate measurements in driving-simulators	Filipa Morais (Faculty of Engineering of University of Porto); Sašo Tomažič (Faculty of Electrical Engineering of University of Ljubljana); Jaka Sodnik (Faculty of Electrical Engineering of University of Ljubljana); Sara Stančin (Faculty of Electrical Engineering of University of Ljubljana)
54	Observing Motion Sickness Progression in Fully Automated Vehicles with Electrogastragraphy	Timotej Gruden (University of Ljubljana, Faculty of Electrical Engineering); Sara Stančin (University of Ljubljana, Faculty of Electrical Engineering); Jaka Sodnik (University of Ljubljana, Faculty of Electrical Engineering)
75	Mr. Sandman: A Neuralink-Class Neuro-Symbolic Architecture for Explainable Sleep Event Detection and Disorder Risk Flagging	Marko Njegomir (Faculty of Technical Sciences); Dušan Erdeljan (Microsoft)
77	Integrating Biomechanical Wall Shear Stress and Morphological Parameters for Machine Learning-Based Prediction of False Lumen Volume in Type A Aortic Dissection	Igor Saveljic (Institute for information technology Kragujevac)
82	A Machine Learning Approach for Predicting Heart Failure Risk Based on Physical Examination and Blood Biomarkers	Andjela Blagojević (Faculty of Engineering, University of Kragujevac; Bioengineering Research and Development Center (BioIRC), Kragujevac, Serbia); Tijana Geroski (Faculty of Engineering, University of Kragujevac; Bioengineering Research and Development Center (BioIRC), Kragujevac, Serbia); Lazar Dašić (Institute for Information Technologies, University of Kragujevac; Bioengineering Research and Development Center (BioIRC), Kragujevac, Serbia); Ognjen Pavić (Institute for Information Technologies, University of Kragujevac; Bioengineering Research and Development Center (BioIRC), Kragujevac, Serbia); Djordje Jakovljević (Coventry University, Coventry, United Kingdom); Lazar Velicki (University of Novi Sad Faculty of Medicine; Institute of Cardiovascular Diseases of Vojvodina, Sremska Kamenica, Serbia); Andrej Preveden (University of Novi Sad Faculty of Medicine;

		Institute of Cardiovascular Diseases of Vojvodina, Sremska Kamenica, Serbia); Aleksandra Milovančev (University of Novi Sad Faculty of Medicine; Institute of Cardiovascular Diseases of Vojvodina, Sremska Kamenica, Serbia); Frans Rutten (Department of General Practice, Julius Centre for Health Sciences and Primary Care, University Medical Centre Utrecht, Utrecht, The Netherlands); Anne Pauline Nelissen (Department of General Practice, Julius Centre for Health Sciences and Primary Care, University Medical Centre Utrecht, Utrecht, The Netherlands); Marta Jimenez-Blanco Bravo (Hospital Universitario Ramón y Cajal, Madrid, Spain; Centro de Investigación Biomédica en Red CIBER-CV, Instituto de Salud Carlos III, Madrid, Spain); Fausto Barlocco (University Hospital Careggi, Firenze, Italy); Alessandra Fornaro (Careggi University Hospital, University of Florence, Florence, Italy); Lars Maier (Department of Internal Medicine II, University Hospital Regensburg, Regensburg, Germany); Maria Tafelmeier (Department of Internal Medicine II, University Hospital Regensburg, Regensburg, Germany); Nenad Filipović (Faculty of Engineering, University of Kragujevac; Bioengineering Research and Development Center (BioIRC), Kragujevac, Serbia)
85	Automatic Coronary Artery Segmentation in X-ray Angiograms	Filip Filipovic (Bioengineering Research and Development Center (BioIRC), Prvoslava Stojanovica 6, 34000 Kragujevac, Serbia); Tijana Geroski (Faculty of Engineering, University of Kragujevac, Sestre Janjic 6, 34000 Kragujevac, Serbia); Nenad Filipovic (Faculty of Engineering, University of Kragujevac, Sestre Janjic 6, 34000 Kragujevac, Serbia)
91	AI-CURE-DEPLOY: A Sovereign Federated Platform for Multimodal AI in Precision Oncology – From Mobile Screening to In Silico Therapy Prediction	Vladimir Djapic (Initium Novum Projekt); Drasko Tomic (Ruđer Bošković Institute (IRB)); Franko Hrzic (Faculty of Computer Engineering & Center for Artificial Intelligence and Cybersecurity, University of Rijeka)

## 16:00-18:00 Computer vision (Room Pančić 2)

20	An approach to crowd counting with density map regression	Lenka Krstić (CRTA); Milan Zdravković (Faculty of Mechanical Engineering)
21	Deep Model Robustness and Regional Generalization for Sentinel-2 Land-Cover Segmentation	Jelena Mitic (Istraživačko razvojni institut za veštačku inteligenciju); Velibor Ilić (Istraživačko razvojni institut za veštačku inteligenciju); Mitko Aleksandrov (Istraživačko razvojni institut za veštačku inteligenciju)
23	Seven-Segment Display Recognition and Fault Detection Using PARSeq-Tiny OCR model	Marko Zubac (Research and Development Institute for Artificial Intelligence of Serbia); Vladimir Vincan (Research and Development Institute for Artificial Intelligence of Serbia); Ognjen Kundačina (Research and Development Institute for Artificial Intelligence of Serbia); Dragiša Mišković (Research and Development Institute for Artificial Intelligence of Serbia)
26	Examining Satellite Channel Importance for Soil Property Estimation Using Attention-Based Neural Networks	Karlo Bala (The Institute for Artificial Intelligence Research and Development of Serbia); Marko Pavlović (The Institute for Artificial Intelligence Research and Development of Serbia); Jelena Petković (The Institute for Artificial Intelligence Research and Development of Serbia)

		of Serbia); Dubravko Čulibrk (University of Novi Sad Faculty of Technical Sciences)
35	Reducing False Positives in Drone Imagery: A Two-Phase YOLO and SVM Approach for Bird Nest Detection	Jelena Petkovic (The Institute for Artificial Intelligence Research and Development of Serbia)
36	Deep Learning and Computer Vision in FDM Technology: A Framework for Intelligent Process Monitoring and Defect Analysis	Anđela Pavlović (Faculty of Mechanical Engineering, University of Niš)
47	Computer vision based basketball tracking system for outdoor environments	Petar Ristic (Faculty of Electronic Engineering), Ivan Ćirić, Nikola Ivačko, Miljana Milić, Natalija Lazarević

## 18:00-20:00 Machine Learning (Room Pančić 2)

43	Stream Learning and Batch Learning Comparison for Anomaly Detection On Flow-Based Network Data	Aleksandar Stojković (Elfak); Aleksandar Stanimirović (Faculty of Electronic Engineering, Univeristy of Niš); Leonid Stoimenov (Faculty of Electronic Engineering, Univeristy of Niš)
45	Prompt Ablation: Correlative Analysis of Model Size and Prompt Style in the Gemma Model Series	Branislav Ristić (University of Novi Sad, Faculty of Technical Sciences); Dinu Dragan (University of Novi Sad, Faculty of Technical Sciences); Veljko Petrović (University of Novi Sad, Faculty of Technical Sciences); Dusan Gajić (University of Novi Sad, Faculty of Technical Sciences)
46	Machine Learning Interpretability and the Black Box Barrier in Precision Agriculture	Dane Milisic (Faculty of Technical Sciences, Novi Sad); Dinu Dragan (Faculty of Technical Sciences, Novi Sad); Veljko Petrovic (Faculty of Technical Sciences, Novi Sad); Dusan Gajic (Faculty of Technical Sciences, Novi Sad)
48	Automating Hyperparameter Exploration and Ranking for Heterogeneous Finite Mixture Models via the SAS FMM Procedure	Oliver Vojinovic (University of Nis, Faculty of Electronic Engineering); Ivan Milentijevic ( University of Nis, Faculty of Electronic Engineering); Vladimir Ciric ( University of Nis, Faculty of Electronic Engineering)
60	Automatic Detection of Solar Terminators Using LSTM Analysis of LF Radio Signal Time Series	Danilo Lazović (Khaoticen)
72	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)
74	Bayesian-Optimized Physics-Informed Neural Networks for the FitzHugh-Nagumo Model	Bogdan Milicevic (Institute for Information Technologies, University of Kragujevac)
79	Do No-Show Prediction Models Age Well? A Longitudinal Study in Healthcare Scheduling	Anđelija Đorđević (Faculty of Electronic Engineering, University of Niš); Aleksandar Milenković (Faculty of Electronic Engineering, University of Niš); Dragan Janković (Faculty of Electronic Engineering, University of Niš); Petar Rajković (Faculty of Electronic Engineering, University of Niš)

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

## Tuesday, 10.3.2026

### 15:30-17:00 NLP and LLM (Room Pančić 1)

29	Parameter Sensitivity and Error Analysis of Voice Activity Detection on English Speech with Cross-Language Evaluation on Custom Serbian Dataset	Svetlana Krunic (The Institute for Artificial Intelligence of Serbia)
50	The Impact of Emojis on LLM Hate Speech Detection	Janko Tufegdžić (School of Electrical Engineering, University of Belgrade); Matija Dodović ( School of Electrical Engineering, University of Belgrade); Dražen Drašković ( School of Electrical Engineering, University of Belgrade)
51	Emojis in Machine Learning and LLM Hate Speech Detection	Matija Dodović (School of Electrical Engineering, University of Belgrade); Janko Tufegdžić (School of Electrical Engineering, University of Belgrade); Dražen Drašković (School of Electrical Engineering, University of Belgrade)
56	Between Text and Knowledge Graphs: A Knowledge-Aligned Serbian QA Dataset	Ranka Stanković (University of Belgrade - Faculty of Mining and Geology); Milica Ikonić Nešić (Faculty of Philology, University of Belgrade); Saša Petalinkar (University of Belgrade); Mihailo Škorić (University of Belgrade - Faculty of Mining and Geology); Olivera Kitanović (University of Belgrade - Faculty of Mining and Geology)
58	Sovereign Edge Agentic LLM Systems (SEALs): A Sovereignty-First Meta-Architecture for Ubiquitous, Human-Centric, and Decision-Grade Accountable AI	Jovan Ivković (ITS - Information technology school, Belgrade)
64	Evaluating Large Language Models for Code Comment Consistency Checking	Miloš Milošević (School of Electrical Engineering, University of Belgrade); Matija Dodović (School of Electrical Engineering, University of Belgrade); Janko Tufegdžić (School of Electrical Engineering, University of Belgrade); Marija Punt (School of Electrical Engineering, University of Belgrade); Dražen Drašković (School of Electrical Engineering, University of Belgrade)

### 17:00-17:30 Keynote (Room Pančić 1)

Zoran Kapelan, Delft University of Technology, Netherlands

### 17:30-20:00 Water (Room Pančić 1)

7	Understanding uncertainty propagation in ML-based river flow forecasting frameworks	Luka Vinokić (Istraživačko-razvojni institut za veštačku inteligenciju Srbije); Milan Dotlić (Istraživačko-razvojni institut za veštačku inteligenciju Srbije); Ana Samac (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)
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9	Flood Detection Using Machine Learning on Satellite SAR Imagery and UAV-Based Image Segmentation	Velibor Ilic (The Institute for Artificial Intelligence Research and Development of Serbia); Veljko Prodanovic (The Institute for Artificial Intelligence Research and Development of Serbia); Jelena Mitic (The Institute for Artificial Intelligence Research and Development of Serbia); Milan Stojkovic (The Institute for Artificial Intelligence Research and Development of Serbia)
12	Water Depth Prediction in Stormwater Sewers Using Deep Learning Method	Jasmina Moskovljevic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia); Luka Vinokic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia); Anja Randjelovic (Faculty of Civil Engineering, University of Belgrade, Belgrade 11000, Serbia); Zeljko Vasilic (Faculty of Civil Engineering, University of Belgrade, Belgrade 11000, Serbia); Milan Dotlic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia); Zoran Vojinovic (Department of Environmental Engineering and Water Technology, IHE-Delft, Westvest 7, 2611 AX Delft, the Netherlands); Natasa Manojlovic (Wasserbau, Hamburg University of Technology, 21073 Hamburg, Germany); Veljko Prodanovic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia)
13	Evaluating influential input parameters in Machine Learning and Deep Learning models for urban flood prediction and mapping	Jasmina Moskovljevic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia); Anja Randjelovic (Faculty of Civil Engineering, University of Belgrade, Belgrade 11000, Serbia); Milan Stojkovic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia); Zoran Vojinovic (Department of Environmental Engineering and Water Technology, IHE-Delft, Westvest 7, 2611 AX Delft, the Netherlands); Natasa Manojlovic (Wasserbau, Hamburg University of Technology, 21073 Hamburg, Germany); Veljko Prodanovic (Institute for Artificial Intelligence R&D of Serbia, Fruškogorska 1, Novi Sad 21000, Serbia)
15	AI-Powered Tool for Adaptive Stage-Flow Rating Curve Estimation in Large Lowland Rivers with Backwater Impacts	Milan Stojkovic (Institute for Artificial Intelligence of Serbia); Mitko Aleksandrov (Institute for Artificial Intelligence of Serbia); Milan Dotlic (Institute for Artificial Intelligence of Serbia); Luka Vinokic (Institute for Artificial Intelligence of Serbia); Zoran Kapelan (TU Delft); Veljko Prodanovic (Institute for Artificial Intelligence of Serbia)
17	A Simple Hybrid Deep Learning Model for Rapid Flood Mapping in Data-Sparse Urban Regions	Milan Grujev (The Institute for Artificial Intelligence Research and Development of Serbia); Veljko Prodanović (The Institute for Artificial Intelligence Research and Development of Serbia); Milan Stojković (The Institute for Artificial Intelligence Research and Development of Serbia); Zoran Vojinović (IHE Delft Institute for Water Education); Nataša Manojlović (TUHH Hamburg University of Technology)
27	Urban flood modeling with physics-informed and deep learning approaches: concepts, methods, and applications	Marina Mitić (The Institute for Artificial Intelligence Research and Development of Serbia)
42	Physics-Informed Neural Networks for Sparse-Sensor reconstruction of Pollutant Transport in Digital Water Systems	Jovan Ivošević (Istraživačko-razvojni institut za veštačku inteligenciju Srbije)

59	Assessing the Suitability of Weather Radar Rainfall Estimates for Flood Early Warning Systems in Serbia	Luka Stojadinović (Jaroslav Černi Water Institute); Vukašin Ćirović (Jaroslav Černi Water Institute); Vladimir Milivojević (Jaroslav Černi Water Institute); Dušan Stefanović (Vodena d.o.o.)
61	Cybersecurity Threats Introduced by Digital Twins in Cyber-Physical Water Systems	Vladimir Milivojević (Jaroslav Černi Water Institute); Nikola Milivojević (Jaroslav Černi Water Institute); Ivana Krtolica (The Institute for Artificial Intelligence Research and Development of Serbia)
73	Data Postprocessing Algorithm for Sensor Network in Flood Early Warning Systems	Miloš Milašinović (Digital Water Engineering Lab, University of Belgrade - Faculty of Civil Engineering); Luka Stojadinović (Jaroslav Černi Water Institute); Budo Zindović (Digital Water Engineering Lab, University of Belgrade - Faculty of Civil Engineering); Nikola Milivojević (Jaroslav Černi Water Institute)

## 15:00-17:30 Software Engineering 2 (Room Pančić 2)

38	Runtime Configuration Verification and Generation for the Collaborative Data Overlay Mesh Protocol	Nikola Stanković (School of Electrical Engineering, University of Belgrade); Katarina-Glorija Grujić (Faculty of Technical Sciences, University of Novi Sad); Maja Vukasović (School of Electrical Engineering, University of Belgrade); Miloš Simić (Faculty of Technical Sciences, University of Novi Sad)
40	Design and Implementation of a Virtual Environment for Web Attack Simulation and Network Traffic Data Acquisition	Vukadin Draskovic (Faculty of Electronic Engineering, University of Nis); Vojdan Kjorveziroski (Faculty of Computer Science and Engineering, Ss. Cyril and Methodius University in Skopje); Bogdan Micic (Faculty of Electronic Engineering, University of Nis); Vladimir Ciric (Faculty of Electronic Engineering, University of Nis); Oliver Vojinovic (Faculty of Electronic Engineering, University of Nis); Ivan Milentijevic (Faculty of Electronic Engineering, University of Nis)
41	Can Breaking the Sorting Barrier Be Parallel? A Controlled Study of Dijkstra and BMSSP on Multicore CPUs	Nikola Vukić (Fakultet tehničkih nauka Univerziteta u Novom Sadu); Veljko Petrović (Fakultet tehničkih nauka Univerziteta u Novom Sadu); Dinu Dragan (Fakultet tehničkih nauka Univerziteta u Novom Sadu); Dušan Gajić (Fakultet tehničkih nauka Univerziteta u Novom Sadu)
44	Virtual environment for implementing and testing algorithmic functionalities in Python	Luka Hrvachević (School of Electrical Engineering, University of Belgrade); Maja Vukasović (School of Electrical Engineering, University of Belgrade); Matija Dodović (School of Electrical Engineering, University of Belgrade); Marko Mišić (School of Electrical Engineering, University of Belgrade)
52	ON THE STATISTICAL BASE OF 2D SHAPES SIMILARITY DETERMINATION	Novica Trifkovic (Faculty of Organizational Sciences)
57	A Model-Driven Approach to Developing Complex Database Schemas Using Form Types and Extended Bernstein's Synthesis Algorithm	Veljko Bubnjević (University of Novi Sad, Faculty of Technical Sciences); Slavica Kordić (University of Novi Sad, Faculty of Technical Sciences); Elena Akik (University of Novi Sad, Faculty of Technical Sciences); Milan Čeliković (University of Novi Sad, Faculty of Technical Sciences); Ivan Luković (University of Belgrade, Faculty of Organizational Sciences)
65	Enabling Machine-Actionable Research Packaging in CRIS Platforms: RO-Crate Support in TeslaRIS	Miloš Popović (Faculty of Technical sciences); Ivan Mršulja (Faculty of Technical sciences); Dragan Ivanović (Faculty of Technical sciences)

68	Metaverse-Enabled Manufacturing Information System for Additive Manufacturing of Titanium Medical Implants	Nikola Vitković (Faculty of Mechanical Engineering in Nis); Marek Chodnicki (Politehnika Gdańska); Ana Kitić (Faculty of Mechanical Engineering in Nis); Rajko Turudija (Faculty of Mechanical Engineering in Nis); Milica Barać (Faculty of Mechanical Engineering in Nis)
71	Scalable Simulation Data Infrastructure for Training Surrogate Models from Large Dam FEM: Architecture, Metadata, and Retrieval Services	Vukašin Ćirović (Jaroslav Cerni Water Institute); Vladimir Milivojević (Jaroslav Cerni Water Institute); Maja Pavić (Jaroslav Cerni Water Institute); Slobodan Radovanović (Jaroslav Cerni Water Institute)
76	A Comparative Analysis of Scope, Availability, and Granularity in Software Supply Chain Datasets	Sara Bogdanović (Faculty of Technical Sciences, Novi Sad), Dinu Dragan (Faculty of Technical Sciences, Novi Sad), Dušan Gajić (Faculty of Technical Sciences, Novi Sad), Veljko Petrović (Faculty of Technical Sciences, Novi Sad)

## 17:30-19:00 Industrial IoT (Room Pančić 2)

10	Simulation-Based Prototyping of Motion Planning and Autonomous Exploration for the Unitree Go2 Quadruped Robot	Velibor Ilic (The Institute for Artificial Intelligence Research and Development of Serbia); Dalibor Seljmesi (Technical Faculty "Mihajlo Pupin"); Visnja Ognjenovic (Technical Faculty "Mihajlo Pupin"); Vladimir Brtka (Technical Faculty "Mihajlo Pupin"); Dalibor Dobrilovic (Technical Faculty "Mihajlo Pupin")
19	A Web Application for Real-Time Performance Monitoring of Lightweight Cryptographic Algorithms for IoT Energy Harvesting	Aleksandar Luković (Univerzitet u Beogradu - Saoraćajni fakultet)
30	Towards Better Synthetic Vibrations for Condition Monitoring of CNC Machines	Nikola Markovic (IVI); Milovan Medojevic (IVI); Bojana Bajic (IVI); Theofanis Raptis (CNR); Aleksandar Rikalovic (IVI)
39	AI-Driven Unsupervised Anomaly Detection in Steel Industry Energy Consumption Time Series	Nemanja Sepa (Faculty of Technical Sciences)
55	Interoperability Framework for Building Management Systems in Data Center Environments	Lazar Berbakov (Institut Mihajlo Pupin)
81	Real-Time Explainable Edge AI for Intelligent Transportation Systems	Masa Milosevic (Faculty of Mechanical Engineering, University of Niš); Emilija Čojbašić (Faculty of Electronic Engineering); Dejan Rančić (Faculty of Electronic Engineering); Nikola Despenić (Faculty of Mechanical Engineering); Žarko Čojbašić (Faculty of Mechanical Engineering)
90	From Digital Image Correlation to FE Validated Digital Twin: Tensile Testing of flat specimens	Jovan Arandelović (Faculty of Mechanical Engineering, University of Niš); Predrag Janković (Faculty of Mechanical Engineering, University of Niš); Nikola Korunović (Faculty of Mechanical Engineering, University of Niš)

## 19:00-20:00 Energy (Room Pančić 2)

8	Refining Occupancy Detection Using CO <sub>2</sub> Slope Analysis	Rajko Turudija (University of Nis - Faculty of Mechanical Engineering); Milan Zdravković (University of Nis - Faculty of Mechanical Engineering)
11	Multi-Sensor Data Analysis of Indoor Thermal and Air Quality Dynamics during Window-Based Natural Ventilation	Dušan Stojiljković (Faculty of Mechanical Engineering, University of Niš); Milan Zdravković (Faculty of Mechanical Engineering, University of Niš); Nikola Ivačko (Faculty of Mechanical Engineering, University of Niš)
22	Thermal Comfort and Energy Efficiency Improvement through Machine Learning Estimation and Operational Parameter Optimisation in District Heating System	Milica Tasic (Faculty of Mechanical Engineering); Mirko Stojiljkovic (Faculty of Mechanical Engineering); Marko Ignjatovic (Faculty of Mechanical Engineering); Ljiljana Radovic (Faculty of Mechanical Engineering); Ivan Ciric (Faculty of Mechanical Engineering)
34	A Platform for District Heating Systems: Integrating Forecasting, Explainable AI, and Fault Management	Valentina Nejkovic (Faculty of Electronic Engineering); Milica Jotev (Faculty of Electronic Engineering); Stevica Cvetkovic (Faculty of Electronic Engineering)
62	Efficiency of District Heating Systems in Low-Temperature Operation Mode	Dejan Mitrović ( University of Niš, Faculty of Mechanical Engineering in Niš); Mirko Stojiljković (University of Niš, Faculty of Mechanical Engineering in Niš); Marko Ignjatović (University of Niš, Faculty of Mechanical Engineering in Niš); Ivan Ćirić (University of Niš, Faculty of Mechanical Engineering in Niš)