

Conference Program

Thursday, October 8, 2026		
09:30 – 10:00	Registration	
10:00 – 10:30	Opening Ceremony (Ceremonial Hall)	
10:30 – 10:45	Address by Xun Gong, Vice Dean of Shandong Computer Science Center	
10:45 – 11:30	Keynote Talk 1 : <i>Wei Shao</i> , (Ceremonial Hall) The Impact of Duplicate Data on Federated Learning: An Overlooked Issue in Data Quality and Privacy-Preserving Governance	
11:30 – 12:00	Coffee Break (Hallway, 2 nd floor)	
	Ceremonial Hall	Room 102
12:00 – 13:30	Parallel Sessions	
	ML	DMPS
13:30 – 15:00	Lunch Break	
15:00 – 16:30	Parallel Sessions	
	AIES1	CV
16:30 – 17:00	Coffee Break (Hallway, 2 nd floor)	
17:00 – 18:30	Parallel Sessions	
	AIES2	GENAI
Friday, October 9, 2026		
10:00 – 10:45	Registration	
10:45 – 11:30	Keynote Talk 2 : <i>Raka Jovanović</i> , (Ceremonial Hall) Synergies Between Machine Learning and Metaheuristics: New Frontiers in Combinatorial Optimization	
11:30 – 12:00	Coffee Break (Hallway, 2 nd floor)	
	Ceremonial Hall	Room 102
12:00 – 13:30	Parallel Sessions	
	NLP1	KRRP
13:30 – 15:00	Lunch Break	

15:00 – 16:30	Parallel Sessions	
	NLP2	XAI
16:30 – 17:00	Closing Session	

Conference Sessions

ML	Machine Learning
AIES1	AI, Ethics, and Society 1
AIES2	AI, Ethics, and Society 2
DMPs	Decision Making and Problem Solving
CV	Computer Vision
GENAI	Generative AI
NLP1	Natural Language Processing 1
NLP2	Natural Language Processing 2
KRRP	Knowledge Representation, Reasoning and Planning
XAI	Explainable AI

NOTE: The presentation time is limited to 15 minutes, including discussions. The Ceremonial Hall is located on the 2nd floor of the SASA building at Knez Mihailova 35. All other rooms are on the 1st floor.

Keynote Talk

Thursday, October 8, 2026

10:45 – 11:30 Ceremonial Hall

Chair: Miodrag Mihaljevic

Wei Shao, *Shandong Computer Science Center, Qilu University of Technology*

THE IMPACT OF DUPLICATE DATA ON FEDERATED LEARNING: AN OVERLOOKED ISSUE IN DATA QUALITY AND PRIVACY-PRESERVING GOVERNANCE

Friday, October 9, 2026

10:45 – 11:30 Ceremonial Hall

Chair: Tatjana Davidovic

Raka Jovanović, *Mathematical Institute of the Serbian Academy of Sciences and Arts*

SYNERGIES BETWEEN MACHINE LEARNING AND METAHEURISTICS: NEW FRONTIERS IN COMBINATORIAL OPTIMIZATION

Parallel Sessions

Thursday, October 8, 2026

12:00 – 13:30 Ceremonial Hall

ML – Machine Learning

Chair: Dusan Teodorovic

Goran Keković, Vladimir Mikić, Miloš Ilić, Rade Božović

Wavelet-Based Optimization of Temporal Windows for LSTM Benzene Concentration Forecasting

Stefan Nikolić, Vladan Devedžić

TAKE A SAD SONG AND MAKE IT BETTER: ITERATIVE PLUGIN REFINEMENT IN SONG-SUCCESS PREDICTION

Andjelija Ilić, Ivan Milovanovich, Vedrana Makević, Nevena Popovac, Radmila Janković, Jelena Trajković, Andrija Vuković, Jovan Jevtić, Silvio R. de Luka

FRACTAL AND TEXTURAL BIOMARKERS IN THE DIAGNOSTICS OF PEDIATRIC INFLAMMATORY BOWEL DISEASE (IBD)

Marina Popović Krneta, Miljana Tanić

INTERPRETING MACHINE LEARNING MODEL PERFORMANCE IN BIOMEDICINE: FROM STATISTICAL PERFORMANCE TO CLINICAL DECISION-MAKING

Obrad Aničić

SMART CNC MANUFACTURING: APPLICATION OF MACHINE LEARNING FOR PREDICTIVE MONITORING OF TOOL CONDITION AND MACHINING QUALITY

12:00 – 13:30 Room 102

DMPS – Decision Making and Problem Solving

Chair: Sonja Dimitrijevic

Slobodan Jelić, Matea Lukić, Tatjana Davidović

VARIABLE NEIGHBORHOOD DESCENT HEURISTIC FOR PREDICTIVE CLUSTER-WISE LINEAR REGRESSION

Herwin Speckter, Velicko Vranes, Marko Radulović

OPTIMISING DEEP LEARNING FOR SMALL PATIENT COHORTS: PREDICTING GAMMA KNIFE RESPONSE IN MENINGIOMA

Anja Arapović

AP-8: WHEN AN AI SYSTEM MUST NOT DECIDE WHICH RULE WINS

Nemanja Vučićević, Filip Andrić, Nenad Stojanović, Marina Svičević, Tatjana Stojanović

FROM POINT-VALUED TO INTERVAL-VALUED BIPOLAR NEUTROSOPHIC SOFT SETS: THE IMPACT OF UNCERTAINTY REPRESENTATION ON DECISION-MAKING

Milica Vučićević, Nenad Stojanović

FROM UNCERTAIN ASSESSMENTS TO OPTIMAL CHOICE: AN NHFSS-BASED DECISION-MAKING ALGORITHM

15:00 – 16:30 Ceremonial Hall

AIES1 – AI, Ethics, and Society 11

Chair: Aleksandar Kostic

Jovan Kojić

GREEN AI AND CIRCULAR ECONOMY ADOPTION IN SMES: BIAS, DATA INFRASTRUCTURE, AND STRUCTURAL CONSTRAINTS IN THE EU AND SERBIA

Dušan Stojanović, Anđelka Zečević

INTELLECTUAL PROPERTY RIGHTS IN THE ERA OF AI: CHALLENGES AND PERSPECTIVES OF THE CONTEMPORARY LEGAL FRAMEWORK

Miljana Tanić

CONCERNS OVER THE USE OF SYNTHETIC DATA IN BIOMEDICINE – WHAT COULD EVER GO WRONG?

Oksana Zubova, Margarita Khusnutdinova, Aleksandra Filipova

ETHICAL CHALLENGES OF INTEGRATING AI INTO THE EDUCATIONAL PROCESS: BALANCING TECHNOLOGICAL PROGRESS WITH ACADEMIC INTEGRITY

15:00 – 16:30 Room 102

CV – Computer Vision

Chair: Predrag Janičić

Mina Stanković, Stefan Kostić, Dimitrije Gajin, Ognjen Antonijević, Branislav Bajac, Aleksandar Sekulić, Milan Kilibarda, Slobodan Jelić

Improving Soil Property Estimation from Spectroscopy Using Elastic-Net-CNN: An OSSSL-Based Study with Transfer Learning

Daria Varga, Danijela Milekić, Milica Vasić, Sanela Slavković, Bojan Banjac, Lidija Krstanović

MACHINE LEARNING BASED SYSTEM FOR REAL-TIME OROFACIAL MOTOR SKILLS EVALUATION

Jelena Jevremović, Boban Sazdić-Jotić, Rade Pavlović, Dušan Randelović

DATASET FOR UAV VISUAL CROSS-VIEW GEO-LOCALIZATION IN MIXED FOREST-URBAN INTERFACES

Dušan Denčić, Nataša Milosavljević, Tatjana Davidović

USABILITY ANALYSIS OF HU AND ZERNIKE MOMENTS FOR IMAGE CLASSIFICATION

17:00 – 18:30 Ceremonial Hall

AIES2 – AI, Ethics, and Society 2

Chair: Tatjana Davidovic

Sara Kabić, Jovana Dedeić, Mladen Nikolić, Sana Stojanović Đurđević

PATIENT PRIVACY IN HEALTHCARE AI PARTNERSHIPS: THE DEEPMIND CASE REVISITED

Vladimir Pavlović, Bogdan Novaković, Olivera Bogunović

TRANSFORMATIVE CHALLENGES OF AI-BASED TECHNOLOGIES ON EDUCATION

Olga Timcenko

AI-ASSISTED LEARNING IN PRACTICE: GITHUB COPILOT AS A PROGRAMMING TUTOR FOR NON-COMPUTER SCIENCE MAJORS

Ljiljana Branković, Olga Timcenko

THE DUAL ROLE OF AI IN HUMAN SOCIETIES

17:00 – 18:30 Room 102

GENAI – Generative AI

Chair: Mirjana Ivanovic

Ognjen Ristić

FROM NO-CODE TO ORCHESTRATED NOTIFICATION AGENT

Dragiša Zunić

MARKET MECHANISMS AS TRANSPARENT ENVIRONMENTS FOR AI AGENTS

Milorad Tošić, Nenad Petrović

SEMANTIC HARNESS FOR LLM-DRIVEN AGENTS

Dimitrije Matović, Aleksandar Milenković, Mladen Nikolić, Sana Stojanović Đurđević

PROTECTING ARTISTIC IDENTITY IN THE AGE OF GENERATIVE AI

Parallel Sessions

Friday, October 9, 2026

12:00 – 13:30 Ceremonial Hall

NLP1 – Natural Language Processing 11

Chair: Marija Mitrovic Dankulov

Marjana Gligorijević, Milena Vujošević Janičić, Jelena Graovac

SAME PACE, DIFFERENT PATH: AN NLP-BASED ANALYSIS OF GENDER DISPARITIES IN IT CAREERS

Ranka Stanković, Biljana Rujević, Olivera Kitanović

BUILDING A KNOWLEDGE GRAPH FROM THE HISTORICAL SERBIAN ENCYCLOPEDIA SVEZNANJE

Mihailo Škorić

CROSS-LINGUAL SUBWORD MAPPING FROM PARALLEL CORPORA

Milena Šošić, Ranka Stanković

EXPLORING NARRATIVE FRAMES VIA EMOTIONAL AND MORAL SIGNALS IN TEXT: A KNOWLEDGE GRAPH APPROACH TO ANALYZE SOCIAL DISCOURSE

Sonja D. Radenkovic

DEVELOPMENT OF AN ARTIFICIAL INTELLIGENCE CHATBOT AGENT FOR FINANCIAL INVESTMENT

12:00 – 13:30 Room 102

KRRP - Knowledge Representation, Reasoning and Planning
Knowledge Representation, Reasoning and Planning

Chair: Mirko Dinulovic

Milan Jovkić, Goran Savić, Milan Segedinac, Peter Steiner

IDENTIFYING PREREQUISITES AMONG COMPETENCIES: A LARGE LANGUAGE MODELS APPROACH

Muhammad Sohail Nisar, Muhammad Saleem, Axel-Cyrille Ngonga Ngomo, Sebastian Tramp, Nieves Sande, Milos Jovanovic, Mirko Spasić

MACHINE LEARNING IN OPTIMIZED SPARQL QUERY EXECUTION OVER RDF KNOWLEDGE GRAPHS

Vanja Stepanović, Andreja Tepavčević

LATTICE-VALUED RELATIONAL EQUATIONS AND INEQUALITIES WITH COMPLETE RESIDUATED CODOMAIN LATTICE

Biljana Stojanović, Saša Malkov, Miloš Beljanski, Nenad Mitić

TEMPORAL DYNAMICS OF CODON USAGE BIAS IN SARS-COV-2 PROTEINS

Robi Pritrznik, Pavle Boškosi, Tjaša Redek, Sagnika Sen, Biljana Mileva Boshkoska

BEYOND EXACT SKILL MATCHING: GRAPH-CONSTRAINED AI MODELING OF COMPETENCE GAPS

15:00 – 16:30 Ceremonial Hall

NLP2 – Natural Language Processing 22

Chair: Ranka Stankovic

Ulfeta Marovac, Anida Vrcić Ammar, Ajla Gudžević

LARGE LANGUAGE MODELS AND EMOTION ANNOTATION: FROM OPEN VOCABULARY TO STANDARDIZED TAXONOMIES

Irena Vodenska, Ulfeta Marovac, Admir Hamzagić, Dalila Pramenković

DO DOMAIN-SPECIFIC FINANCIAL MODELS STILL MATTER IN THE ERA OF LARGE LANGUAGE MODELS?

Saša Petalinkar, Ranka Stanković, Cvetana Krstev

LLM-ASSISTED EXPANSION OF SERBIAN WORDNET: EVALUATING PROMPTING STRATEGIES FOR SYNSET CANDIDATE GENERATION

Danka Jokić, Milica Andrić, Nebojša Damjanović, Toma Knežević

BUILDING A SERBIAN RIDDLE BENCHMARK FOR MULTICULTURAL EVALUATION OF LARGE LANGUAGE MODELS

Miljana Mladenović, Staša Vujičić Stanković, Aleksandar Kartelj

A HYBRID STATISTICAL LLM PIPELINE FOR GENERATING SYNTHETIC SURVEY RESPONDENTS WITH POPULATION-ALIGNED DISTRIBUTIONS

15:00 – 16:30 Room 102

XAI – Explainable AI

Chair: Miodrag Mihaljevic

Pilar Ibañez

AI-POWERED EMOTIONAL SUPPORT: ADDRESSING WORKPLACE BURNOUT THROUGH EMOTION REGULATION STRATEGIES

Miloš Košprdić, Tijana Radović

WHAT MAKES ARGUMENTS PERSUASIVE? AN INTERPRETABLE ANALYSIS OF ALIGNMENT AND TARGETED ENGAGEMENT IN ONLINE DISCUSSIONS

Marina Svičević, Aleksandar Milenković, Nemanja Vučićević, Branko Arsić, Lazar Krstić

MATHEMATICAL FOUNDATIONS OF AI AND MACHINE LEARNING: A PILOT STUDY AMONG GRADUATES OF SPECIALIZED SECONDARY SCHOOL STUDENTS

Tushar Fnu, Anushka Thagle, Supanut Chindawan, Sanjna Sai Chintakunta, Faizan Raza, Maryam Roshanaei, Dušan Ramljak, Albert Elcock, Rich Moore, Praneeth Sunkaavalli, Chandan Shivalingaiah, Gaurav Prabhu, Lukas Sparer, Alexander Neulinger, Arturo Casasa, Sanjeev Sondur, Milan Todorović, Tatjana Davidović, Dragutin Ostojić, Natalija Randelović, Radoš Jojić

BLOCKCHAIN IN SERVICE OF RESPONSIBLE AI GOVERNANCE: INTEGRATING AI SENTINEL WITH BLOCKCHAIN-INSPIRED ACCOUNTABILITY MECHANISMS