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:** *Wei Shao*, (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, 2nd 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, 2nd 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:** *Raka Jovanović*, (Ceremonial Hall) Synergies Between Machine Learning and Metaheuristics: New Frontiers in Combinatorial Optimization	
11:30 – 12:00	Coffee Break (Hallway, 2nd 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 1

Chair: Aleksandar Kostic

Isidora Popović, Anđelka Zečević
A LARGE LANGUAGE MODEL APPROACH TO MORAL DILEMMAS

Dušan Stojanović, Anđelka Zečević
INTELLECTUAL PROPERTY RIGHTS IN THE ERA OF AI: CHALLENGES AND PERSPECTIVES OF THE CONTEMPORARY LEGAL FRAMEWORK

Maja Ilić
COMPARING AI INCIDENT DATABASES: CHALLENGES IN CLASSIFICATION AND INTEROPERABILITY

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 Bajat, Aleksandar Sekulić, Milan Kilibarda, Slobodan Jelić
Improving Soil Property Estimation from Spectroscopy Using Elastic-Net-CNN: An OSSL-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 Ranđelović
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

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

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

Dimitrije Matović, Aleksandar Milenković, Mladen Nikolić, Sana Stojanović Djurdjević
PROTECTING ARTISTIC IDENTITY IN THE AGE OF GENERATIVE AI

Milorad Tošić, Nenad Petrović
SEMANTIC HARNESS FOR LLM-DRIVEN AGENTS

Parallel Sessions

Friday, October 9, 2026

12:00 – 13:30 Ceremonial Hall

NLP1 – Natural Language Processing 1

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

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 Jovanovik, Mirko Spasić
MACHINE LEARNING IN OPTIMIZED SPARQL QUERY EXECUTION OVER RDF KNOWLEDGE GRAPHS

Vanja Stepanović, Andreja Tepavčević
LATTICE-VALUED RELATIONAL EQUATIONS AND INEQUATIONS 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 Pritržnik, Pavle Boškoski, 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 2

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 Damnjanović, 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 Ranđelović, Radoš Jojić
BLOCKCHAIN IN SERVICE OF RESPONSIBLE AI GOVERNANCE: INTEGRATING AI SENTINEL WITH BLOCKCHAIN-INSPIRED ACCOUNTABILITY MECHANISMS