



АКАДЕМИЈА НАУКА И УМЈЕТНОСТИ БОСНЕ И ХЕРЦЕГОВИНЕ
АКАДЕМИЈА НАУКА И УМЈЕТНОСТИ БОСНЕ И ХЕРЦЕГОВИНЕ
ACADEMY OF SCIENCES AND ARTS OF BOSNIA AND HERZEGOVINA

DEPARTMENT OF TECHNICAL SCIENCES

3rd International Scientific Conference
**ARTIFICIAL INTELLIGENCE IN INDUSTRY 4.0:
THE FUTURE THAT COMES TRUE**

CONFERENCE PROGRAM

3rd - 4th October 2024
SARAJEVO, BOSNIA AND HERZEGOVINA

3rd International Scientific Conference
ARTIFICIAL INTELLIGENCE IN INDUSTRY 4.0: The future that comes true
3rd–4th October 2024, ANUBiH, Sarajevo, Bosnia and Herzegovina



AKADEMIJA NAUKA I UMJETNOSTI BOSNE I HERCEGOVINE
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Department of Technical Sciences

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CONFERENCE PROGRAM

Thursday, 3rd October 2024

Registration of participants and Welcome drink 18.00 h
Hall ANUBiH, Bistrik 7, Sarajevo

Friday, 4th October 2024

Registration of participants
8:30–9:30 h

Hall ANUBiH, Bistrik 7, Sarajevo

Opening Conference

ARTIFICIAL INTELLIGENCE IN INDUSTRY 4.0:
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Welcoming speech

Hall ANUBiH, Bistrik 7, Sarajevo
9:30–9:45 h

Moderators: *prof. dr. Isak Karabegović, prof. dr. Lejla Banjanović–Mehmedović,
prof. dr. Sead Pašić, prof. dr. Samir Lemeš, prof. dr. Safet Isić*

Secretary: *prof. dr. Samir Vojić, prof. dr. Amra Bratovčić,
prof. dr. Mirha Bičo Ćar*

9:45 *NAVIGATING THE FUTURE: THE ROADMAP TO AI AT SCALE
Namik Hrle (On-line)*

10:15 *INFLUENCE OF ARTIFICIAL INTELLIGENCE ON METHODOLOGIES AND
PROCESSES FOR ENGINEERING SOFTWARE-ENABLED SYSTEMS IN
INDUSTRY 4.0
Jasmin Jahić*

10:30 *APPLICATION OF ADVANCED TECHNOLOGIES OF ARTIFICIAL
INTELLIGENCE IN THE OPTIMIZATION OF PRODUCT QUALITY IN
INDUSTRY
Marija Mojsilović, Selver Pepić, Muzafer Saračević*

10:45 *MACHINE LEARNING WITHIN INDUSTRY 4.0: FROM DECISION TREES
TO VISUAL TRANSFORMER ARCHITECTURE
Zoran Miljković, Aleksandar Jokić, Milica Petrović*

11:00 *BUILDING AI-SUPPORTED COLLABORATIVE AWARENESS IN
INDUSTRIAL HUMANOIDS: CONCEPTUAL FRAMEWORK AND
METHODOLOGICAL APPROACH
Aleksandar Rodić*

11:15 *ADVANCEMENTS IN ROBOTIC INTELLIGENCE: THE ROLE OF
COMPUTER VISION, DRL, TRANSFORMERS AND LLMs
Lejla Banjanović-Mehmedović, Anel Husaković, Azra Gurdić Ribić, Naser
Prljača, Isak Karabegović*

11:30 *USE OF ARTIFICIAL INTELLIGENCE IN TRAFFIC TECHNOLOGY AND
TRANSPORT
Sadko Mandžuka, Edouard Ivanjko, Krešimir Vidović*

11:45 *ARTIFICIAL INTELLIGENCE AND ITS APPLICATION IN
MANUFACTURING
Vidosav D. Majstorović, Sonja Dimitrijević, Vladimir Simeunović,
Dragan Stošić*

12:00 *PROMPT ENGINEERING
Samir Lemeš*

12:15 *MACHINE SAFETY AND WORKPLACE IMPLICATIONS OF ARTIFICIAL
INTELLIGENCE
Viktorio Malisa*

*Coffee break – Lunch break
12:30–14:00 h*

14:00 *TREND INNOVATION OF ARTIFICIAL INTELLIGENCE AND ROBOTIC
TECHNOLOGY: IMPLEMENTATION IN ADVANCED ROBOTIC SYSTEMS
Isak Karabegović, Ermin Husak, Samir Vojić, Edina Karabegović,
Mehmed Mahmić*

14:15 *THE ROLE OF BLOCKCHAIN TECHNOLOGY IN THE TRANSFORMATION
OF DIGITAL MARKETING
Savo Stupar, Elvir Šahić, Maida Cico, Mirha Bičo Ćar*

14:30 *IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE, SMART SENSORS,
ROBOTS AND DIGITAL TRANSFORMATION IN FOOD AND
AGRICULTURAL PRODUCTION
Amra Bratovcic*

14:45 *A COMPREHENSIVE VIEW OF THE APPLICATION OF AI IN
RECRUITMENT AND SELECTION
Edisa Dreković, Isak Karabegović, Žaklina Teofilović*

15:00 *AI SOLUTIONS FOR SUSTAINABLE, SAFETY AND RESILIENT
TRANSPORT AND MOBILITY
Osman Lindov*

- 15:15** *INTEGRATION OF ARTIFICIAL INTELLIGENCE-BASED SYSTEMS IN DIAGNOSTIC PATHWAYS: TRUEAID CASE STUDY*
Lemana Spahić, Almir Badnjević, Asim Kurjak, Lejla Gurbeta Pokvić
- 15:30** *LIVER DISEASE CLASSIFICATION USING MACHINE LEARNING*
Madžida Hundur Hiyari, Nejra Merdović, Faruk Bećirović, Emina Mrđanović, Adna Softić
- 15:45** *ARTIFICIAL INTELLIGENCE AND ITS APPLICATION IN DENTISTRY*
Nemanja V. Majstorović, Sonja Dimitrijević, Aleksandar Todorović
- 16:00** *PREDICTING BEHAVIORAL PATTERNS IN BRAZILLIAN WHITEKNEE TARANTULAS – A MULTI-OUTPUT MACHINE LEARNING ANALYSIS OF DIETARY EFFECTS IN ACANTHOSCURRIA GENICULATA*
Amina Radončić
- 16:15** *ASSESSING THE ACCURACY OF LOGISTIC REGRESSION AND BERT IN SENTIMENT ANALYSIS AND MENTAL DISORDER CLASSIFICATION*
Faruk Bećirovic, Nejra Merdovic, Madžida Hundur Hiyari, Merima Smajlhodžić-Deljo, Irma Salkic, Adna Softic

*Discussion - Conclusions
16:30–17:30 h*

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Bosnia and Herzegovina
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THE VENUE OF THE CONFERENCE

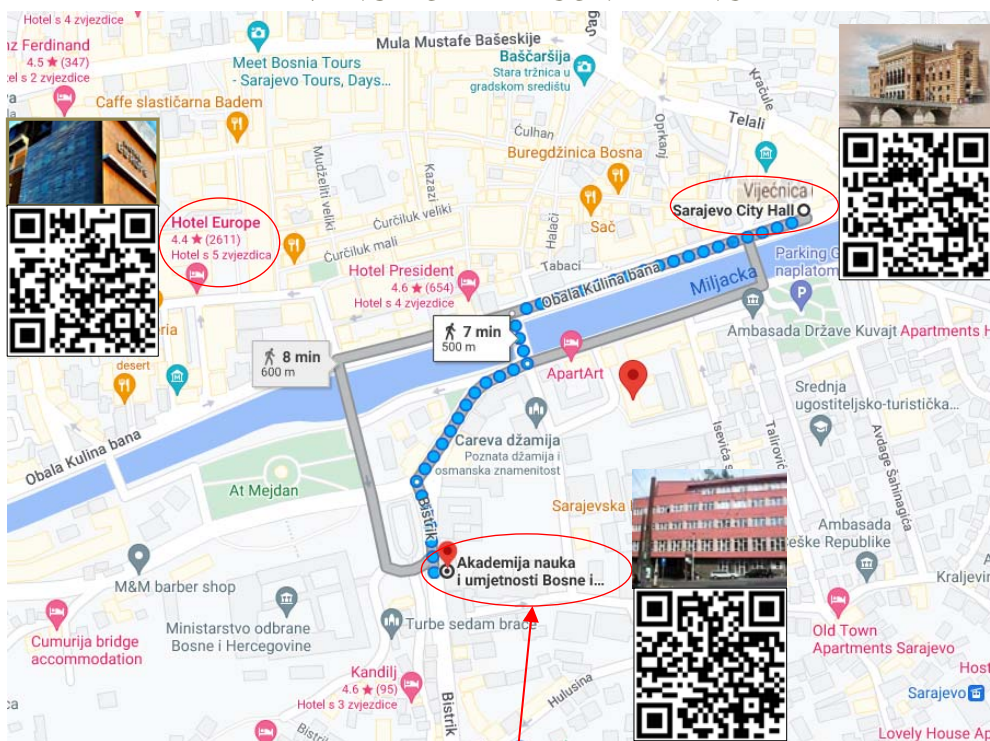


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**Academy of Sciences and Arts
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St. Bistrik 7
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