



17TH
DAYS OF
BHAAS
▶▶▶ Sarajevo
June 4-7, 2026

TECHNICAL AND NATURAL SCIENCES SYMPOSIUM PROGRAM

Thursday

4th June 2026

LOCATION:
Hotel Holiday



BHAAS

Bosnian-Herzegovinian American
ACADEMY OF ARTS AND SCIENCES

17TH
DAYS OF
BHAAS
Sarajevo
June 4-7, 2026

Mechanical Engineering Symposium

Symposium chair(s) and Affiliations:

Seid Korić

Muris Torlak

08:00 - 09:00	Registration	
09:00 - 10:00	Room Holiday Plenary Lecture: The Future of Information Technologies	Namik Hrle
10:00 - 10:30	Coffee break	
10:30 - 11:00	-	
10:45 - 11:00	-	
11:00 - 11:15	Design, Development and Experimental Validation of a Prototype Tool for Deep Drawing of Thin Sheet Metal	Muharemović, S., Halilovic, J., Manjgo, M.
11:15 - 11:30	Evaluation of Moisture Risks in Timber Mosque Structures Based on Smart Sensor Technology	Hasanagić, R., Lesar, B., Talić, H., Humar, M.
11:30 - 11:45	Experimental determination of fatigue crack growth parameters in a welded joint of a cylindrical steel tank	Islamović, F., Bajramović, E., Islamović Čavkić, B., Bajramović, E.
11:45 - 12:00	Application of Seven Quality Tools for Metalworking Process Improvement: Evidence from Bosnia and Herzegovina	Alagic, I.
12:00 - 12:15	Airflow Reduction Using an Air Torque Position Damper in HVAC systems	Bikić, S., Halač, A., Berberovic, E., Al Afif, R., Hasecic, A., Radojčin, M., Pavkov, I.
12:30 - 13:30	Lunch	
13:30 - 14:30	Room HOLIDAY Plenary Lecture: Deep Operator Neural Networks – Towards Instant Modeling, Design, and Digital Twins	Seid Korić
14:30 - 14:45	-	

14:45 - 15:00	Simplified Beam Model of Multistory Frame Building with Pendulum Tuned Mass Damper	Mehremić, S., Isić, S., Dizdar, S.
15:00 - 15:15	Numerical Simulation of Detonation Dynamics in Pulse-Wave Generator using rhoReactiveCentralFoam solver	Karač, A., Djugum, A., Smajević, I., Hanjalic, K.
15:15 - 15:30	Finite Volume Analysis of Fluid–Structure Interaction of Pulsatile Blood Flow in a Viscoelastic Artery - D	Halač, A., Džaferović, E., Hasecic, A.
15:30 - 15:45	Impact of Edge Rounding and Chamfering on the Aerodynamic Characteristics of the Ahmed Body	Trakić, A., Trobradović, M., Šehović, J., Bibić, D.



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Information and Communication Technologies Symposium

Symposium chair(s) and Affiliations:

Aljo Mujčić, Faculty of Electrical Engineering, University of Tuzla

Mujo Hodžić, Polytechnic Faculty, University of Zenica

08:00 - 09:00		Registration
09:00 - 10:00	Room Holiday Plenary Lecture: The Future of Information Technologies	Namik Hrle
10:00 - 10:30		Coffee break
10:30 - 10:45	A Compute Graph Compiler with Multi-Pass Optimization for GPU Computation	Tarik Hrnjić, University of Sarajevo–Faculty of Electrical Engineering; Izudin Džafić, University of Sarajevo–Faculty of Electrical Engineering; Safet Isić, University "Džemal Bijedić" of Mostar, Faculty of Mechanical Engineering; Merima Ćupina, University "Džemal Bijedić" of Mostar, Faculty of Mechanical Engineering
10:45 - 11:00	Information System for Supervision, Simulation, State Analysis and Control of a Water Supply System	Admir Ahmespahic, University of Sarajevo — Faculty of Electrical Engineering; Izudin Dzafic, University of Sarajevo — Faculty of Mechanical Engineering Muris Torlak; Vahidin Hadziabdic, University "Dzemal Bijedic" of Mostar — Faculty of Mechanical Engineering; Merima Cupina, University "Dzemal Bijedic" of Mostar — Faculty of Mechanical Engineering
11:00 - 11:15	Passive Analysis of Wi-Fi Network Security in an Urban Environment: A Case Study	Mirza Becirbasic, Faculty of Electrical Engineering, University of Tuzla; Emir Meskovic, Faculty of Electrical Engineering, University of Tuzla; Aljo Mujcic, Faculty of Electrical Engineering, University of Tuzla
11:15 - 11:30	Sustainable IoT Ecosystems: Enhancing Smart City Sensor Networks through Energy Harvesting	T. Latinovic, University Vitez, Faculty of Information Technology, Vitez; A. L. Pop Vădean, Technical University of Cluj-Napoca - Faculty of Automotive, Mechatronics and Mechanical Engineering, Bulevardul Munci, Cluj Romania; V. Vincevic, Technical University of Cluj-Napoca - Faculty of Automotive, Mechatronics and Mechanical Engineering, Bulevardul Munci, Cluj Romania; Lj. Sikman, University of Banja Luka, Faculty of Technology, Banja Luka; O. Krcadinac, Faculty of Informatics and Computer science, Belgrade

11:30 - 11:45	Techno-Economic Analysis of Aerial and Underground FTTH Access Networks: Cost Comparison and Investment Return Based on Real-World Models	Anis Maslo, BH Telecom, Sarajevo; Nermin Goran, Polytechnic Faculty, University of Zenica; Mujo Hodžić, Polytechnic Faculty, University of Zenica; Đenana Muračević, BH Telecom, Sarajevo
11:45 - 12:00	Using Multi-Agent Systems For Predicting and Preventing Natural Disasters	Imad Buljić, Polytechnic Faculty, University of Zenica; Nermin Goran, Polytechnic Faculty, University of Zenica; Mujo Hodžić, Polytechnic Faculty, University of Zenica
12:00 - 12:30	-	
12:30 - 13:30	Lunch	
13:30 - 14:30	Room HOLIDAY Plenary Lecture: Deep Operator Neural Networks – Towards Instant Modeling, Design, and Digital Twins	Seid Korić



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17TH
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Computer Science, Machine Learning and Artificial Intelligence Symposium

Symposium chair(s) and Affiliations:

Almir Karabegović (University of Sarajevo-Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina, BHAAAS)

Dželila Mehanović (International Burch University, Sarajevo, Bosnia and Herzegovina)

08:00 - 09:00	Registration	
09:00 - 10:00	Room Holiday Plenary Lecture: The Future of Information Technologies	Namik Hrlje, Chief Technology Officer (CTO) & Mainframe Software Division Fellow, former IBM Fellow
10:00 - 10:30	Coffee break	
10:30 - 10:45	Effectiveness of AI-Generated Unit Tests in Improving Code Quality	Melisa Geca (International Burch University, Sarajevo, Bosnia and Herzegovina); Dželila Mehanović (International Burch University, Sarajevo, Bosnia and Herzegovina)
10:45 - 11:00	Comparative Evaluation of Machine Learning and Transformer-Based Approaches for Multi-Task Sentiment Analysis on Amazon Food Reviews	Eman Hrustemović (International Burch University, Sarajevo, Bosnia and Herzegovina); Dželila Mehanović (International Burch University, Sarajevo, Bosnia and Herzegovina)
11:00 - 11:15	Overview of the use of AI Tools by Students at Technical Faculties in Bosnia and Herzegovina	Lamija Mehić (University of Zenica – Polytechnic Faculty, Bosnia-Herzegovina); Adis Muminović (University of Sarajevo – Faculty of Mechanical Engineering, Bosnia-Herzegovina)
11:15 - 11:30	LLM-Assisted Grading of Web Programming Projects via Natural Language Requirement Matching	Aldin Kovačević (International Burch University, Sarajevo, Bosnia and Herzegovina); Amela Vatreš Mudžet (International Burch University, Sarajevo, Bosnia and Herzegovina); Mirza Krupić (International Burch University, Sarajevo, Bosnia and Herzegovina); Jasmin Kevrić (International Burch University, Sarajevo, Bosnia and Herzegovina)
11:30 - 11:45	Deep Learning - Based Depression Detection Using Audio, Visual, And Textual Signals: An Explainable Approach	Arneta Čavčić (International Burch University, Sarajevo, Bosnia and Herzegovina); Zerina Altoka (International Burch University, Sarajevo, Bosnia and Herzegovina)
11:45 - 12:00	Study Buddy: A Hybrid Rule-Based NLP Pipeline for Automatic Quiz Question Generation from Lecture Slide	Azra Šošić (International Burch University, Sarajevo, Bosnia and Herzegovina); Adna Čičko (International Burch University, Sarajevo, Bosnia and Herzegovina); Dželila Mehanović (International Burch University, Sarajevo, Bosnia and Herzegovina); Ilma Gusinac (International Burch University, Sarajevo, Bosnia and Herzegovina)

12:00 - 12:15	Deep Learning-Based Temperature Forecasting for Bosnia and Herzegovina	Adnan Dželihodžić (Symphony, Bosnia and Herzegovina); Faris Hambo (Symphony, Bosnia and Herzegovina); Edin Kohnić (UniCredit Bank, Bosnia and Herzegovina)
12:15 - 12:30	Machine Learning-Based Fake News Detection for Bosnian Language Media: A Classification Study with User Survey Context	Lamija Bašalić (International Burch University, Sarajevo, Bosnia and Herzegovina); Adnan Dželihodžić (International Burch University, Sarajevo, Bosnia and Herzegovina)
12:30 - 13:30	Lunch	
13:30 - 14:30	Room Holiday Plenary Lecture: Deep Operator Neural Networks – Towards Instant Modeling, Design, and Digital Twins	Prof. Seid Korić (University of Illinois, and NCSA)
14:45 - 15:00	Distilling Large Language Models for Robotics: Fine-Tuning Llama 3.2 3B for Object Manipulation	Amer Sarajlić (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina); Lejla Banjanović-Mehmedović (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina)
15:00 - 15:15	Performance–Accuracy Trade-off Analysis of Optimized YOLO Models for Embedded Cobot Systems	Azur Jusić (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina); Lejla Banjanović-Mehmedović (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina)
15:15 - 15:30	Pneumonia detection in X-ray images using convolutional neural networks (CNNs)	Dželila Tinjak (International Burch University, Sarajevo, Bosnia and Herzegovina); Dželila Mehanović (International Burch University, Sarajevo, Bosnia and Herzegovina)
15:30 - 16:00	Coffee break	
16:00 - 16:15	MRI-Based Dementia Prediction Related to Alzheimer’s Disease Using Machine Learning	Berina Mesihović (International University of Sarajevo, Bosnia and Herzegovina); Afan Haznadarević (International University of Sarajevo, Bosnia and Herzegovina); Dr. Kanita Karađuzović-Hadžiabdić (International University of Sarajevo, Bosnia and Herzegovina)
16:15 - 16:30	Using Multi-Agent Systems For Predicting and Preventing Natural Disasters	Imad Buljić (Polytechnic Faculty, University of Zenica, Bosnia and Herzegovina); Nermin Goran (University of Sarajevo, Bosnia and Herzegovina); Mujo Hodžić (Polytechnic Faculty, University of Zenica, Bosnia and Herzegovina)
16:30 - 16:45	Reducing p95 Latency and SLO Violations with ML Driven Autoscaling	Imad Buljić (Polytechnic Faculty, University of Zenica, Bosnia and Herzegovina); Adnan Dželihodžić (University of Sarajevo- Faculty of Electrical Engineering, Bosnia-Herzegovina); Delaida Muminović (Polytechnic Faculty, University of Zenica, Bosnia and Herzegovina)

16:45 - 17:00	Multi-Agent Reinforcement Learning for Autonomous Mobile Robot Coordination	Safet Imamović (University of Zenica, Bosnia and Herzegovina); Nermin Goran (University of Sarajevo, Bosnia and Herzegovina)
17:00 - 17:15	Mobile Development Framework Performance: A Comparative Evaluation Across Native and Cross Platform Solutions	Edin Selimović (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina); Edin Pjanić (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina)
17:15 - 17:30	Building a Web-Based Auction Platform for the Bosnia and Herzegovina Market	Zeynep Sağır (International University of Sarajevo, Faculty of Engineering and Natural Sciences, Bosnia and Herzegovina); Amina Kadić (International University of Sarajevo, Faculty of Engineering and Natural Sciences, Bosnia and Herzegovina); Melih Kasapović (International University of Sarajevo, Faculty of Engineering and Natural Sciences, Bosnia and Herzegovina); Kenan Klepić (International University of Sarajevo, Faculty of Engineering and Natural Sciences, Bosnia and Herzegovina)
17:30 - 17:45	The use of Augmented Reality in forensic medicine pelvic morphology education	Aya Ali Al Zayat (University of Sarajevo- Faculty of Electrical Engineering, Bosnia-Herzegovina); Amina Zorlak-Cavcic (University of Sarajevo- Faculty of Medicine, Bosnia-Herzegovina); Merim Jusufbegovic (University of Sarajevo- Faculty of Health Studies, Bosnia-Herzegovina)
17:45 - 18:00	Closing remarks	



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Computer Science and Information Technologies Student Symposium Symposium

Computer Science and Information Technologies Student Symposium Program



 Thursday
June 4th 2026

 Hotel Holiday
Room Vrbas

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2026
June 4-11, 2026

10:00 - 10:10	Introduction	Prof. Almir Karabegović
10:10 - 10:20	Variations of the Gradient Descent Method and Their Application in Machine Learning	Naila Delalić, Faculty of Electrical Engineering, University of Sarajevo
10:20 - 10:30	Gaussian Splatting – a Real-Time Volume Rendering Technique	Lamija Halilović, Faculty of Electrical Engineering, University of Sarajevo
10:30 - 10:40	Detection of Digital Content Tampering Using Deep Hashing	Vedad Gaštan, Faculty of Electrical Engineering, University of Sarajevo
10:40 - 10:50	360 Video Streaming	Eldar Hadžiselimović, Faculty of Electrical Engineering University of Sarajevo
10:50 - 11:00	Development of Secure Applications Using Artificial Intelligence	Lejan Kozlić, Faculty of Electrical Engineering University of Sarajevo
11:00 - 11:10	Text-to-Speech Study Aid for Visually Impaired Students	Faris Karkelja, International Burch University
11:10 - 11:20	Out-of-Distribution Sample Detection in Image Classification	Marko Đajić, Faculty of Electrical Engineering, University of Banja Luka
11:20 - 11:30	English Premier League Prediction System	Timur Puzo, International Burch University, Sarajevo
11:30 - 11:40	Open-Source Real-Time Systems: A Quantitative Analysis of FreeRTOS on RISC-V	Delaida Muminović, Polytechnic Faculty, University of Zenica
11:40 - 11:50	CAMP (Campus Marketplace Platform): Student Marketplace for Sharing, Selling, and Giving	Azra Arnautović, International Burch University, Sarajevo
11:50 - 12:00	Evaluating the Impact of Lower-Body Tracking on Immersion in a VR Hiking Game	Hana Ibrić, University Sarajevo School of Science and Technology

12:00	Real-Time Speech Command Recognition on Embedded Systems	Danilo Todorović, Faculty of Electrical Engineering, University of Banja Luka
12:30 - 13:30	Lunch	
13:30 - 14:30	Room Holiday Plenary Lecture: Deep Operator Neural Networks – Towards Instant Modeling, Design, and Digital Twins	Prof. Seid Korić (University of Illinois, and NCSA)
14:30	Award ceremony	

Friday

5th June 2026

LOCATION:
Hotel Holiday



BHAAAS
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ACADEMY OF ARTS AND SCIENCES

17TH
DAYS OF
BHAAAS
Sarajevo
June 4-7, 2026

Civil Engineering Symposium

Symposium chair(s) and Affiliations:

Naida Ademović (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina, BHAAAS)

Emina Hajdo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)

08:00 - 09:00	Registration	
09:00 - 10:00	Plenary Lecture: Synergy of Multiphysics- Multiscale Modeling, and Machine Learning: A Path for Understanding	Prof. Adnan Ibrahimbegović, University of Technology of Compiègne (UTC), France
10:00 - 10:30	Coffee break	
10:30 - 10:45	Discrepancies Between Theoretical and Measured Elongations in Long Continuity Tendons of Prestressed Concrete Bridges	Kenan Imširpašić (Infra Ltd Sarajevo, Bosnia and Herzegovina); Enes Lakota (IDS Studio Sarajevo, Sarajevo, Bosnia and Herzegovina); Edin Jahić (Infra Ltd. Sarajevo, Sarajevo, Bosnia and Herzegovina); Amar Kadić (Infra Ltd. Sarajevo, Sarajevo, Bosnia and Herzegovina); Emina Hajdo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)
10:45 - 11:00	Performance-Based Seismic Loss Assessment of Eurocode 8-Compliant RC High-Rise Buildings	Jelena Pejović (Faculty of Civil Engineering, University of Montenegro, Podgorica, Montenegro) ; Nina Serdar (Faculty of Civil Engineering, University of Montenegro, Podgorica, Montenegro)
11:00 - 11:15	Comparative Analysis of Fundamental Period Formulas for RC Frame Structures	Josip Radić (Faculty of Civil Engineering and Architecture Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia); Antonija Ereš (Faculty of Civil Engineering and Architecture Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia); Ivan Bandalo (Faculty of Civil Engineering and Architecture Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia); Marijana Hadzima-Nyarko (Faculty of Civil Engineering and Architecture Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia)
11:15 - 11:30	Comparative Evaluation of Empirical Period Formulas and Development of a Locally Calibrated Model for Historical Masonry Minarets: The Case of Bitlis	Ercan Işık (Bitlis Eren University, Bitlis, Türkiye); Fatih Avcil (Bitlis Eren University, Bitlis, Türkiye); Dorin Radu (Transilvania University of Brasov, Brasov, Romania); Marijana Hadzima-Nyarko (Faculty of Civil Engineering and Architecture Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia)
11:30 - 11:45	Integral Abutment Bridges: Current Practice and Application in Bosnia and Herzegovina	Enes Lakota (IDS Studio Sarajevo, Sarajevo, Bosnia and Herzegovina); Kenan Imširpašić (Infra Ltd. Sarajevo, Sarajevo, Bosnia and Herzegovina); Emina Hajdo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Edin Jahić (Infra Ltd. Sarajevo, Sarajevo, Bosnia and Herzegovina)

11:45 - 12:00	Comparative Stability Analysis of Embankment Dams with Different Cross-Sections under Steady-State and Rapid Drawdown Conditions	Andrea Grabovac (Arkus Ltd. Sarajevo, Sarajevo, Bosnia and Herzegovina); Emina Hadzalic (University of Rijeka, Faculty of Civil Engineering, Rijeka, Croatia); Emina Hajdo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)
12:00 - 12:15	Development and Verification of a Python-Based Finite Element Solver for Groundwater Flow Modeling	Mirza Selimović ("HBK" d.o.o. Sarajevo, Sarajevo, Bosnia and Herzegovina) Haris Kalajđalilović (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina) Hata Milišić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)
12:15 - 12:30	Enhanced Thermal Performance through PCM-Straw Bale Solar Heating Wall	Emira Gibanica (International University of Sarajevo, Sarajevo, Bosnia and Herzegovina); Alma Hudovic Kljuno (International University of Sarajevo, Sarajevo, Bosnia and Herzegovina); Benjamin Durakovic (International University of Sarajevo, Sarajevo, Bosnia and Herzegovina)
12:30 - 13:30		Lunch
13:30 - 14:30	Plenary Lecture: The Alchemy of Roman Concrete: From History to Innovation for a Sustainable Future	Prof. Admir Mašić, MIT
14:45 - 14:55	Lean in road and building construction	Dino Delibašić (Heidelberg Materials, Sarajevo, Bosnia and Herzegovina); Žeša Ljevo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)
14:55 - 15:05	Determining the correlation between the increase in the number of visitors and the amount of waste generated during the Sarajevo Film Festival	Mirza Berković (University of Sarajevo-Faculty of Traffic and Communications, Sarajevo, Bosnia and Herzegovina); Nadina Omerašević (University of Sarajevo-Faculty of Traffic and Communications, Sarajevo, Bosnia and Herzegovina); Samir Džaferović (University of Sarajevo-Faculty of Traffic and Communications, Sarajevo, Bosnia and Herzegovina)
15:05 - 15:15	Modeling of Composite Steel-Concrete Beams According to Eurocode 4 and Refined Numerical Approaches	Sedina Murtić (University of Zenica, Polytechnic Faculty, Zenica, Bosnia and Herzegovina)
15:15 - 15:25	Flexural-Shear Behaviour of an RC Slab under Four-Point Bending	Amina Karavelić-Hadžimejlić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Senad Medić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)
15:25 - 15:35	Stone Arch Bridges in the Old Town Municipality of Sarajevo: Structural Heritage and Non-Destructive Assessment Using Infrared Thermography	Naida Ademović (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina, BHAAAS); Emina Hajdo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Adi Muminović (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Azra Kurtović (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)



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17TH
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Advanced Electrical Power Systems Symposium

Symposium chair(s) and Affiliations:

Samir Avdaković (University of Sarajevo-Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina, BHAAAS)

Maja Muftić Dedović (University of Sarajevo-Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina, BHAAAS)

08:30 - 09:00	Registration	
09:00 - 10:00	Room Holiday Plenary Lecture: Synergy of Multiphysics- Multiscale Modeling, and Machine Learning: A Path for Understanding	Prof. Adnan Ibrahimbegović, University of Technology of Compiègne (UTC)
10:00 - 10:30	Coffee break	
10:30 - 10:45	Multi-year Dynamic Transmission Network Expansion Planning Using Ant Colony Optimization	Mia Lešić Aganović (Elektroprenos-Elektroprijenos BiH a.d. Banja Luka, Bosnia and Herzegovina); Tatjana Konjić (University of Tuzla-Faculty of Electrical Engineering, Bosnia and Herzegovina); Hajrudin Jupić (University of Tuzla-Faculty of Electrical Engineering, Bosnia and Herzegovina); Jasna Hivziefendić (Sarajevo School of Science and Technology, Bosnia and Herzegovina)
10:45 - 11:00	Reconfiguration of an Active Distribution Network Using Metaheuristic Algorithms	Hajrudin Jupić (University of Tuzla-Faculty of Electrical Engineering, Bosnia and Herzegovina) Tatjana Konjić (University of Tuzla-Faculty of Electrical Engineering, Bosnia and Herzegovina)
11:00 - 11:15	Multilevel Thresholding of Transmission Line Insulators in Power Systems: A Comparative Study of ACO and ACOR using Kapur, Rényi, and Tsallis Entropy	Nermin Komar (University of Sarajevo-Faculty of Electrical Engineering, Bosnia and Herzegovina); Mirza Batalović (University of Sarajevo-Faculty of Electrical Engineering, Bosnia and Herzegovina); Medina Kapo (University of Sarajevo-Faculty of Electrical Engineering, Bosnia and Herzegovina); Amila Akagić (University of Sarajevo-Faculty of Electrical Engineering, Bosnia and Herzegovina); Emir Buza (University of Sarajevo-Faculty of Electrical Engineering, Bosnia and Herzegovina)
11:15 - 11:30	Comparative Study of Soft Magnetic Composites in Stator and Rotor of a Three-Phase Induction Motor	Senija Sejfić (International Burch University, Sarajevo, Bosnia and Herzegovina) ; Mehrija Hasičić (International Burch University, Sarajevo, Bosnia and Herzegovina)
11:30 - 12:30	-	
12:30 - 13:30	Lunch	
13:30 - 14:30	Room HOLIDAY Plenary Lecture: Deep Operator Neural Networks – Towards Instant Modeling, Design, and Digital Twins	Seid Korić



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Data Science and Geographic Information Systems Symposium

Symposium chair(s) and Affiliations:

Almir Karabegović (University of Sarajevo-Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina, BHAAS)

Jasminka Hasić Telalović (School of Science and Technology, Sarajevo, Bosnia and Herzegovina)

Mirza Ponjavić (International Burch University, Sarajevo, Bosnia and Herzegovina)

08:00 - 09:00	Registration	
09:00 - 10:00	Room Holiday Plenary Lecture: Synergy of Multiphysics -Multiscale Modeling, and Machine Learning: A Path for Understanding	Prof. Adnan Ibrahimbegović, University of Technology of Compiègne (UTC)
10:00 - 10:30	Coffee break	
10:30 - 10:45	A GIS-to-BI Workflow for Spatial Clustering of Tourism Points of Interest	Kenan Saračević (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina); Alen Čelik (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina); Almir Karabegović (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina / BHAAS)
10:45 - 11:00	Integrating Business Intelligence, Geospatial Analytics, and Machine Learning in a Spatio-Temporal Data Warehouse for Tourism Analysis	Alen Čelik (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina); Kenan Saračević (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina); Almir Karabegović (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina / BHAAS)
11:00 - 11:15	From Satellite Data to Smart Cities: Assessing Air Pollution Dynamics in Novi Sad, Serbia (2020–2024)	Natalija Nikolić (University of Novi Sad, Faculty of Sciences, Serbia); Tijana Tomić (University of Novi Sad, Faculty of Sciences, Serbia); Marina Davidović Manojlović (University of Novi Sad, Faculty of Sciences, Serbia); Dajana Aščerić (University of Novi Sad, Faculty of Sciences, Serbia)
11:15 - 11:30	Urban Expansion and Agricultural Land Loss in a Peri-Urban Municipality: A GIS-Based Analysis of Ilidža (Bosnia and Herzegovina)	Amina Sivac (University of Sarajevo - Faculty of Science, Bosnia-Herzegovina); Edin Hrelja (University of Sarajevo - Faculty of Science, Bosnia-Herzegovina); Aida Korjenić (University of Sarajevo - Faculty of Science, Bosnia-Herzegovina)
11:30 - 11:45	Digital transformation of e-Sud judicial records: A data collection and visualization case study	Emsel Krupalija (Lawyer Office Emsel Krupalija, Bosnia-Herzegovina); Ehlimana Cogo (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina); Emir Cogo (University of Sarajevo-Faculty of Electrical Engineering, Bosnia-Herzegovina)
11:45 - 12:00	Machine Learning for Mass Grave Detection An Exploratory Study in the Srebrenica Region	Šejla Mandžić (International Burch University, Sarajevo, Bosnia and Herzegovina)

12:00 - 12:15	The role of digital data in planning beekeeping development and climate change adaptation	Melisa Ljuša (University of Sarajevo-Faculty of Agriculture and Food Sciences, Bosnia-Herzegovina); Lejla Biber (University of Sarajevo-Faculty of Agriculture and Food Sciences, Bosnia-Herzegovina); Hamid Čustović (Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo, Bosnia-Herzegovina); Jasmin Taletović (Sarajevo Canton Institute of Planning and Development, Bosnia-Herzegovina)
12:15 - 12:30	The influence of human activities on the dynamics and character of land cover changes in urban and rural areas	Melisa Ljuša (University of Sarajevo-Faculty of Agriculture and Food Sciences, Bosnia-Herzegovina); Hamid Čustović (Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo, Bosnia-Herzegovina); Jasmin Taletović (Sarajevo Canton Institute of Planning and Development, Bosnia-Herzegovina)
12:30 - 13:30	Lunch	
13:30 - 14:30	Room Holiday Plenary Lecture: The Alchemy of Roman Concrete: From History to Innovation for a Sustainable Future	Prof. Admir Mašić, MIT
14:45 - 15:00	Identifying suitable areas for installing wind farms in Bosnia and Herzegovina	Edin Hadžimustafić (University of Tuzla- Faculty of Natural Sciences and Mathematics, Bosnia-Herzegovina); Dževad Mešanović (University of Tuzla- Faculty of Natural Sciences and Mathematics, Bosnia-Herzegovina)
15:00 - 15:15	Analysing Apartment Prices in Bosnia and Herzegovina: A Comprehensive Study and Predictive Model for Future Pricing Trends	Aldin Kovačević (International Burch University, Sarajevo, Bosnia and Herzegovina); Amela Vatreš Mudželet (International Burch University, Sarajevo, Bosnia and Herzegovina); Nermine Durmić (International Burch University, Sarajevo, Bosnia and Herzegovina)
15:15 - 15:30	From streaming to an incremental computing approach for managing the current movements of moving objects	Bakir Agić (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina); Emir Mešković (University of Tuzla- Faculty of Electrical Engineering, Bosnia-Herzegovina)
15:30 - 16:00	Coffee break	
16:00 - 17:00	Room Holiday Plenary Lecture: Emerging AI Hardware Enabled by Memristive Devices and Systems	Prof. Qiangfei Xia, UMass Amherst
17:15 - 17:30	Precipitation trend analysis using Mann-Kendall and Sen's slope test estimation in Bosnia and Herzegovina	Džanina Omičević (University of Sarajevo-Faculty of Civil Engineering, Bosnia and Herzegovina)

17:30 - 17:45

Evaluation of Registration Strategies for 3D Building Modeling from TLS Data

Nedim Tuno (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Admir Mulahusić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Jusuf Topoljak (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Muamer Đideliija (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Nedim Kulo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Adis Hamzić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Emina Hadžalić (University of Rijeka, Faculty of Civil Engineering, Rijeka, Croatia); Azemina Tucaković-Hrkić (Federal Administration for Geodetic and Real Property Affairs, Sarajevo, Bosnia and Herzegovina)

17:45 - 18:00

Multi-Epoch Monitoring of Tall Structures Inclination Using Terrestrial Laser Scanning and Statistical Data Analysis: Case Study

Adis Hamzić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Nedim Tuno (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Admir Mulahusić (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Jusuf Topoljak (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Amir Hajdar (University of Sarajevo - Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Muamer Đideliija (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina); Nedim Kulo (University of Sarajevo-Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina)

Saturday and Sunday

6th June 2026

LOCATION:
Hotel Holiday



BHAAAS


Bosnian-Herzegovinian American
ACADEMY OF ARTS AND SCIENCES

17TH
DAYS OF
BHAAAS
Sarajevo
June 4-7, 2026

AI ACROSS DISCIPLINES
Special event

AI ACROSS DISCIPLINES

Program

 Saturday
June 6th 2026

 Hotel Holiday
Room Holiday

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09:00 - 09:10	Opening remarks	Dr. Zlatan Akšamija, President of BHAAS (University of Utah), Mirsad Hadžikadić
09:10 - 10:00	AI OVERVIEW About AI, its development, potential, applications, and challenges	Mirsad Hadžikadić (moderator, UNC Charlotte), Namik Hrle – via video link (Broadcom – Czech Republic), Seid Korić (UI Urbana-Champaign)
10:00 - 11:15	PANEL DISCUSSIONS “Are You Afraid?” –Society and AI	Vedad Smilagić (moderator, Faculty of Philosophy Sarajevo), Elmir Babović (Blum Institute), Sead Delalić (InfoStudio, Faculty of Science), Aida Brankovich (CISROO)
11:15 - 11:30		Break
11:30 - 12:45	AI as a Tool in Education – Preparing Educators and New Generations, A New Approach to Education	Mirsad Hadžikadić (moderator, UNC Charlotte), Vedad Smilagić (Faculty of Philosophy), Migdat Hodžić (ArtiAnalytics, FIT, IUS), Elmir Babović (Džemal Bijedić University), Tarik Hubana (Džemal Bijedić University)
12:45 - 13:00		Break
13:00 - 14:00	BH Futures Foundation	Vladimir Mijić: “Working with AI Assistants” 3MT Awards Ceremony
14:00 - 14:45	AI Community Networking Break (with BH Futures Foundation)	
14:45 - 16:00	AI Research	Migdat Hodžić (moderator, ArtiAnalytics, FIT, IUS), Mirsad Hadžikadić (UNC Charlotte), Seid Korić (UI Urbana - Champaign), Elmir Babović (Blum Institute), Sead Delalić (InfoStudio, Faculty of Science), Ned Lomigora (387labs), Aida Brankovich (CISROO)
16:00 - 16:15		Break
16:15 - 18:45	Practice – Examples of AI Use, Presentation of Bosnian-Herzegovinian Products and Companies	Ned Lomigora (moderator, 387labs), QSS, ArtiAnalytics (Tarik Hubana), BlumTeq, InfoStudio (Adnan Begoli), Namik Hrle – via video link (Broadcom – Czech Republic), Vedad Smilagić (Faculty of Philosophy Sarajevo), Sanja Korić (University of Illinois)

AI ACROSS DISCIPLINES

Program



Sunday
June 7th 2026



Hotel Holiday
Room Holiday



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11:00 - 12:30	Panel Discussions AI in Medicine	Mirsad Hadžikadić (moderator, UNC Charlotte), Dr. Vedka Begović (Scripps Health), Dr. Ognjen Gajić (Mayo Clinic), Dr. Aida Branković (CISROO), Dr. Davor Mucić Little Prince Treatment Centre - Copenhagen, Denmark)
12:30 - 14:00		Break
14:00 - 15:30	AI, Creativity, Art, and Culture	Slobodan Radosavljević – via video link (UQTR), Svjetlana Bukvich – via video link (composer, multimedia artist)

17TH DAYS OF
BHAAAS
Sarajevo
June 4-7, 2026



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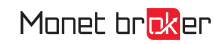
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