

12<sup>th</sup> International Conference „New Technologies, Development and Application“  
12. Internacionalna konferencija „Nove tehnologije, razvoj i primjena“

ACADEMY OF SCIENCES AND ARTS  
OF BOSNIA AND HERZEGOVINA  
SOCIETY FOR ROBOTICS  
OF BOSNIA AND HERZEGOVINA  
“DŽEMAL BIJEDIĆ” UNIVERSITY  
OF MOSTAR  
UNIVERSITY OF SARAJEVO  
UNIVERSITY OF TUZLA  
UNIVERSITY OF ZENICA  
SARAJEVO SCHOOL OF SCIENCE  
AND TECHNOLOGY  
INTERNATIONAL UNIVERSITY  
OF SARAJEVO  
INTERNATIONAL “BURCH” UNIVERSITY  
OF SARAJEVO  
FOREIGN TRADE CHAMBER  
OF BOSNIA AND HERZEGOVINA  
INTERNATIONAL ASSOCIATION FOR TECHNOLOGICAL  
DEVELOPMENT AND INNOVATIONS UKRAINA  
TECHNOLOGY PARK “INTERA” OF MOSTAR

AKADEMIJA NAUKA I UMJETNOSTI  
BOSNE I HERCEGOVINE  
DRUŠTVO ZA ROBOTIKU  
U BOSNI I HERCEGOVINI  
“DŽEMAL BIJEDIĆ” UNIVERZITET  
U MOSTARU  
UNIVERZITET U SARAJEVU  
UNIVERZITET U TUZLI  
UNIVERZITET U ZENICI  
SARAJEVSKA ŠKOLA ZA  
NAUKU I TEHNOLOGIJU  
INTERNACIONALNI UNIVERZITET U  
SARAJEVU  
INTERNACIONALNI “BURCH” UNIVERZITET  
U SARAJEVU  
VANJSKOTRGOVINSKA KOMORA  
BOSNE I HERCEGOVINE  
INTERNACIONALNO UDRUŽENJE ZA TEHNOLOŠKI  
RAZVOJ I INOVACIJE UKRAJINA  
TEHNOLOŠKI PARK “INTERA” U MOSTARU

# NT-2026

## CONFERENCE | PROGRAM PROGRAM | KONFERENCIJE



Sarajevo | Sarajevo  
Bosnia and Herzegovina | Bosna i Hercegovina  
25<sup>th</sup>-27<sup>th</sup> June 2026 | 25-27. juni 2026



*12<sup>th</sup> International Conference “New Technologies NT-2026”  
12. Internacionalna konferencija „Nove tehnologije NT-2026“*

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<i>ACADEMY OF SCIENCES AND ARTS OF BOSNIA AND HERZEGOVINA SOCIETY FOR ROBOTICS OF BOSNIA AND HERZEGOVINA “DŽEMAL BIJEDIĆ” UNIVERSITY OF MOSTAR UNIVERSITY OF SARAJEVO UNIVERSITY OF TUZLA UNIVERSITY OF ZENICA SARAJEVO SCHOOL OF SCIENCE AND TECHNOLOGY INTERNATIONAL UNIVERSITY OF SARAJEVO INTERNATIONAL “BURCH” UNIVERSITY OF SARAJEVO FOREIGN TRADE CHAMBER OF BOSNIA AND HERZEGOVINA INTERNATIONAL ASSOCIATION FOR TECHNOLOGICAL DEVELOPMENT AND INNOVATIONS UKRAINA INTERA TECHNOLOGY PARK MOSTAR</i>	<i>AKADEMIJA NAUKA I UMJETNOSTI BOSNE I HERCEGOVINE DRUŠTVO ZA ROBOTIKU U BOSNI I HERCEGOVINI “DŽEMAL BIJEDIĆ” UNIVERZITET U MOSTARU UNIVERZITET U SARAJEVU UNIVERZITET U TUZLI UNIVERZITET U ZENICI SARAJEVSKA ŠKOLA ZA NAUKU I TEHNOLOGIJU INTERNACIONALNI UNIVERZITET U SARAJEVU INTERNACIONALNI “BURCH” UNIVERZITET U SARAJEVU VANJSKOTRGOVINSKA KOMORA BOSNE I HERCEGOVINE INTERNACIONALNO UDRUŽENJE ZA TEHNOLOŠKI RAZVOJ I INOVACIJE UKRAINA INTERA TEHNOLOŠKI PARK MOSTAR</i>
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*12<sup>th</sup> International Conference  
NEW TECHNOLOGIES  
DEVELOPMENT AND APPLICATION*

*„NT-2026“*

*CONFERENCE | PROGRAM  
PROGRAM | KONFERENCIJE*

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<i>Sarajevo Bosnia and Herzegovina 25<sup>th</sup>-27<sup>th</sup> June 2026</i>	<i>Sarajevo Bosna i Hercegovina 25-27. juna 2026.</i>
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**CONFERENCE PROGRAM**  
**PROGRAM KONFERENCIJE**

*Thursday/Četvrtak, 25 June 2026*

**Registration of participants and Welcome drink 18:00**  
**Hall/Sala ANU BiH, Bistrik 7, Sarajevo**

*Friday/Petak, 26 June 2026*

**Registration - Registracija učesnika**  
**8:00 - 9:30**  
**Hall/Sala ANU BiH, Bistrik 7, Sarajevo**

**Opening - Svečano otvaranje 12<sup>th</sup> Conference "NT-2026"**  
**Welcoming speech/Pozdravna riječ**

**Opening Conference/Otvaranje Konferencije**  
**Hall/Sala ANU BiH, Bistrik 7, Sarajevo**  
**9:30 - 10:00**

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**SESSION SCHEDLUE/RASPORED SEKCIJA „NT-2026“**

*Friday/Petak, 26 June 2026*

**Plenary Session - Plenarna sjednica**

**10:00 – 12:00**

Hall/Sala: "Velika sala"

*(Coffee break - Kafe pauza: 12:00 - 12:30)*

**Session I-IV/Sekcija I-IV: 12:30-15:00**

**Session I/Sekcija I**  
Hall/Sala: "Velika sala"

**Session II/Sekcija II**  
Hall/Sala: "Kožna sala"

**Session III/Sekcija III**  
Hall/Sala: "Biblioteka"

**Session IV/Sekcija IV**  
Hall/Sala: "Sala IV"

*(Lunch break/Pauza za ručak: 15:00-16:00)*

**Session V-VIII/Sekcija V-VIII: 16:00-19:00**

**Session V/Sekcija V**  
Hall/Sala: "Velika sala"

**Session VI/Sekcija VI**  
Hall/Sala: "Kožna sala"

**Session VII/Sekcija VII**  
Hall/Sala: "Biblioteka"

**Session VIII/Sekcija VIII**  
Hall/Sala: "Sala IV"

*Saturday/Subota, 27 June 2026*

**Session IX-XII/Sekcija IX-XII: 09:00-11:30**

**Session IX/Sekcija IX**  
Hall/Sala: "Velika sala"

**Session X/Sekcija X**  
Hall/Sala: "Kožna sala"

**Session XI/Sekcija XI**  
Hall/Sala: "Biblioteka"

**Session XII/Sekcija XII**  
Hall/Sala: "Sala IV"

*Friday/Petak, 26 June 2026*

**Plenary Session - Plenarna sjednica**

**10:00 – 12:00**

**Moderators: Prof. Isak Karabegović, PhD, Prof. Ahmed Kovačević, PhD,  
Prof. Sead Pašić, PhD, Prof. Fuad Čatović, PhD, Prof. Safet Isić, PhD**

- 001** *QUANTUM COMPUTING FOR COMPUTATIONAL SCIENCE  
AND ENGINEERING: POTENTIAL, CHALLENGES, AND PATHWAYS TO  
APPLICATIONS*  
**Matthias Möller**
- 002** *FROM DATA MINING TO DECISION SUPPORT: AI IN INDUSTRY AND  
SUSTAINABILITY*  
**Filiz Ersöz**
- 003** *CYBERSECURITY IN HIGHER EDUCATION: NEW HORIZONS OF RISKS AND  
RESPONSES IN THE ERA OF ARTIFICIAL INTELLIGENCE*  
**Ramo Šendelj**
- 004** *THE ROLE OF NETWORKING IN INTELLIGENT TRANSPORTATION  
SYSTEMS AND SERVICES*  
**Robert Rijavec**

*Coffee break - Kafe pauza*

**12:00 – 12:30**

**Interactive Demo - Interaktivna demonstracija**

**12:00 – 12:30**

*THE FUTURE OF ACCESSIBLE ROBOTICS: A LIVE DEMO OF DIY ROBOTIC  
ECOSYSTEM*

**Amer Sarajlić, Lejla Banjanović-Mehmedović, Isak Karabegović, Malik  
Čabaravdić**

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**Session/Sekcija I: 12:30 - 15:00**

Moderators: **Samir Lemeš, Safet Isić, Domenico Guida**

Secretary: **Zlata Jelačić**

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- I 01** THE IMPACT OF DIGITAL PHOTOGRAPHY CHARACTERISTICS ON THE PERFORMANCE OF FACIAL RECOGNITION ALGORITHMS  
**Samir Lemeš, Kenan Bajramović, Edin Tabak**
- I 02** USING LEGO MODELS TO TRAIN PROSPECTIVE AUTOMOTIVE ENGINEERS  
**Ivanov Viktor, Dimitrov Lubomir, Tetiana Melenchuk, Radionov Ihor**
- I 03** DESIGN OF MULTIPLIERLESS COMPENSATORS FOR CASCADED COMB DECIMATION FILTERS WITH FULL STOPBAND ALIASING REJECTION  
**Gordana Jovanovic Dolecek, Isak Karabegovic**
- I 04** DIGITAL TWIN-BASED STRUCTURAL ASSESSMENT OF HEAVY VEHICLE SUSPENSION COMPONENTS  
**Caner Baybas, Fevzi Doganer, Hatice Akavioglu, Cengiz Mert Turkmen, Mustafa Acarer**
- I 05** SENSORIMOTOR STRATEGY IN CONTROL DESIGN OF REHABILITATION ROBOTICS: A STUDY OF STABILITY AND PERFORMANCE  
**Zlata Jelačić**
- I 06** COMPARISON OF NONLINEAR CONTROL STRATEGIES FOR THE UR3 COBOT MODELED IN THE SIMSCAPE MULTIBODY ENVIRONMENT  
**Carmine Maria Pappalardo, Alessandro Valiante, Rosario La Regina, Domenico Guida**
- I 07** MULTIBODY ANALYSIS AND CONTROL SYNTHESIS OF AN AUTONOMOUS UNMANNED GROUND VEHICLE USING FEEDFORWARD BRAKING TORQUES AND PROPORTIONAL-DERIVATIVE FEEDBACK CONTROLLERS  
**Rosario La Regina, Riccardo Papa, Carmine Maria Pappalardo, Domenico Guida**
- I 08** DEVELOPMENT OF A PASSIVE SUSPENSION SYSTEM FOR AN AUTONOMOUS TRACKED UNMANNED GROUND VEHICLE USING A MULTIBODY DYNAMICS APPROACH  
**Rosario La Regina, Giovanni De Sio, Carmine Maria Pappalardo, Domenico Guida**
- I 09** TRAJECTORY GENERATION AND LQR CONTROL OF A THREE-DEGREE-OF-FREEDOM ROBOTIC MANIPULATOR FOR INDUSTRIAL APPLICATIONS  
**Pasquale Notaro, Rosario La Regina, Carmine Maria Pappalardo, Domenico Guida**
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- I 10** INTEGRATED DOE–LATIN HYPERCUBE APPROACH FOR ROBOTIC CELL-LAYOUT OPTIMIZATION AND SLOSHING REDUCTION  
**Alessia Porcaro, Zandra B. Rivera Chavez, Marco C. De Simone, Domenico Guida**
- I 11** DESIGN OPTIMIZATION OF A MODULAR UGV SUSPENSION SYSTEM USING FULL-FACTORIAL DOE AND MULTIBODY SIMULATION  
**Marco C. De Simone, Zandra B. Rivera Chavez, Alessia Porcaro**
- I 12** VIBRATION-BASED ANALYSIS FOR PREDICTIVE MAINTENANCE OF HIGH-SPEED ELECTRIC TRAINS (ETR): A SIGNAL PROCESSING CASE STUDY  
**Domenico Gentiluomo, Leidy E. Pamplona Beròn, Marco C. De Simone**
- I 13** ANALYSIS OF HIERARCHICAL ORGANIZATION, FLEXIBILITY, AND CONTROL OF THE SENSORIMOTOR SYSTEM BASED ON A DYNAMIC MODEL OF THE UPPER EXTREMITY  
**Zlata Jelačić**
- I 14** MODEL-BASED DESIGN AND SIMULATION OF TIRE–TERRAIN INTERACTION IN OFF-ROAD AUTONOMOUS VEHICLES  
**Marco C. De Simone, Leidy E. Pamplona Beròn, Domenico Gentiluomo**

***Student session (MSc & PhD Presentations)***

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- I 15** CYBERSECURITY VULNERABILITY ANALYSIS OF SUBSTATIONAUTOMATION SYSTEM: MODELING, ATTACK SIMULATION, AND PROTECTIVE STRATEGIES USING MATLAB/SIMULINK  
**Merjem Husić**
- I 16** OVERVIEW OF THE USE OF CAD TOOLS IN COMPANIES IN BOSNIA AND HERZEGOVINA  
**Mubina Musić, Adis J. Muminović, Enis Muratović, Nedim Pervan**
- I 17** ENERGY-EFFICIENT HYDRAULIC PRESS CONTROL WITH A VARIABLE-SPEED PUMP  
**Žiga Janežič, Vito Tič**
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**Session/Sekcija II: 12:30 - 15:00**

Moderators: **Vidosav Majstorović, Isak Karabegović, Gordana Zeba**

Secretary: **Mehmed Mahmić**

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- II 01**     *ROLE OF ARTIFICIAL INTELLIGENCE AND DIGITAL TWIN TECHNOLOGIES IN THE TRANSITION TO HUMAN-CENTRIC MANUFACTURING*  
**Gordana Zeba**
- II 02**     *ADVANCED ROBOTIC GRIPPERS FOR INDUSTRIAL AUTOMATION: A REVIEW WITH FOCUS ON PALLETIZING APPLICATIONS AND HUMAN-ROBOT PERFORMANCE COMPARISON*  
**Isak Karabegović, Ermin Husak, Samir Vojić, Lejla Banjanović-Mehmedović**
- II 03**     *DESIGN AND OPTIMIZATION OF AN ADAPTIVE GRIPPER FOR AUTOMATED RETRIEVAL AND PALLETIZING OF PRODUCTS WITH VARIABLE CHARACTERISTICS*  
**Isak Karabegović, Samir Vojić, Ermin Husak, Lejla Banjanović-Mehmedović, Mehmed Mahmić, Mirha Bičo Čar, Amina Radončić, Ramiz Sijamhodžić**
- II 04**     *SIMULATION OF THE KINEMATICS OF A BIONIC FINGER FOR A HAND EXOSKELETON USING PUSH-ROD LINKAGES*  
**Vitaliy Korendiy, Bohdan Markovych, Maksym Durniak, Ihor Kryvuliak**
- II 05**     *APPLICATION OF MACHINE LEARNING METHODS TO A ROBOTIC REHABILITATION GLOVE*  
**Senad Rahimić, Amila Dedić**
- II 06**     *APPLICATION OF ADDITIVE TECHNOLOGIES IN EXPERIMENTAL VIBRATION TESTING OF TRUSS STRUCTURES*  
**Ermin Husak, Ramiz Sijamhodžić, Safet Isić**
- II 07**     *AUTONOMOUS INSPECTION AND REAL TIME MAINTENANCE USING MOBILE AND COLLABORATIVE ROBOTS*  
**Isak Karabegović, Mehmed Mahmić, Edina Karabegović, Ermin Husak, Samir Vojić**
- II 08**     *A HYBRID SOLVER FOR DIGITAL TWINS: COMBINING SYMBOLIC AND NUMERICAL METHODS*  
**Nermin Čolo, Safet Isić, Izudin Džafić**
- II 09**     *INTEGRATED MODEL OF INDUSTRY 4.0 AND INDUSTRY 5.0 – CASE STUDIES*  
**Aleksandar Vidojković, Sergey Vostrikov, Vidosav D. Majstorović**
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- II 10**    *DEVELOPMENT OF A TOOL FOR ASSESSING THE LEVEL OF INDUSTRY 4.0 AND LEAN MANUFACTURING IMPLEMENTATION*  
*Bošnjak Igor, Stojkić Željko, Šaravanja Luka*

***Student session (MSc & PhD Presentations)***

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- II 11**    *OPEN-SOURCE CLOSED-LOOP STEPPER MOTOR CONTROLLER FOR DIY ROBOTIC ARM APPLICATIONS*  
*Amer Sarajlić, Lejla Banjanović-Mehmedović, Isak Karabegović*
- II 12**    *AI-ENHANCED SKILLOA FOR LLM-DRIVEN VISUAL PROGRAMMING IN AUTONOMOUS MANUFACTURING: OBJECT RECOGNITION AND SPATIAL REASONING CHALLENGES*  
*Amer Sarajlić, Malik Čabaravdić, Lisa Ollinger*
- II 13**    *DESIGN AND IMPLEMENTATION OF A MECANUM-WHEEL AGV WITH GENETIC ALGORITHM-BASED ROUTE OPTIMIZATION*  
*Žiga Breznikar, Janez Gotlih, Miran Brezočnik*
- II 14**    *REAL-TIME VISION INSPECTION FOR OPERATOR-ASSISTED ASSEMBLY STATIONS*  
*Ben Šnajder, Vito Tič*
- II 15**    *MATHEMATICAL FRAMEWORK FOR EVALUATING AMR INVESTMENT IN WAREHOUSE MATERIAL HANDLING*  
*Faris Ferizbegović, Hadis Bajrić, Muhamed Sinanović*
- II 16**    *SCENARIO-BASED PAYBACK PERIOD ANALYSIS OF AMR INVESTMENT: COMPARATIVE STUDY OF EU AND WESTERN BALKAN COUNTRIES*  
*Faris Ferizbegović, Hadis Bajrić, Muhamed Sinanović*
- II 17**    *MULTI-OUTPUT DRIFT DETECTION AND MODEL ADAPTATION IN SEMICONDUCTOR MANUFACTURING*  
*Amina Mević, Mohamed Ghoneim, Senka Krivić*
- II 18**    *A HOLISTIC APPROACH TO HEALTHCARE IMPROVEMENT: INTEGRATING PROCESS MODELLING, INFORMATION SYSTEMS AND ADVANCED IMAGING*  
*Dan Theodor Andronic, Stefan Titu, Aurel Mihail Titu*
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**Session/Sekcija III: 12:30 - 15:00**

Moderators: **Samir Vojić, Emina Džaferović-Mašić, Nediljka Vukojević Medvidović**

Secretary: **Edin Šemić**

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- III 01** ESTIMATION OF SLOSHING ANGLE USING SIGNAL PROCESSING TECHNIQUES AND A LINEAR REGRESSION MODEL  
**Leidy E. Pamplona Beròn, Salvio Veneziano, Marco C. De Simone**
- III 02** ELO-DRIVEN MACHINE LEARNING FOR EUROPEAN FOOTBALL MATCH PREDICTION  
**Veljko Spasojević, Milica Tufegđić, Marija Mojsilović, Vladan Čolić**
- III 03** CHARACTERISTICS OF PULVERIZED CO-FIRING OF BROWN COAL AND BLACK PELLETS  
**Nihad Hodžić, Kenan Kadić, Anes Kazagić, Nedim Ganibegović**
- III 04** ONE-SLIT DIFFRACTION EXPERIMENT ENHANCED WITH LDR  
**Emina Džaferović-Mašić, Mateo Bušić**
- III 05** MAGNET-ZEOLITE-DRIVEN ELECTROCOAGULATION OF SYNTHETIC LAUNDRY GRAYWATER  
**Nediljka Vukojević Medvidović, Senka Gudić, Ladislav Vrsalović, Sandra Svilović, Ivona Čule**
- III 06** IMPACT OF HIGH-STRENGTH BARS ON SPIRAL COLUMN CAPACITY  
**Muhammad Saad Khan, Muhammad Yousuf Iqbal, Muhammad Masood Rafi**
- III 07** GREEN TRANSITION AWARENESS IN TÜRKİYE'S IRON AND STEEL INDUSTRY  
**Filiz Ersöz, Neslihan Köse**
- III 08** AN IMPROVEMENT OF PENDULUM-TYPE TUNED MASS DAMPER USING ADDITIONAL FORCING  
**Semir Mehremić, Safet Isić, Emir Nezirić, Ermin Husak**
- III 09** MATHEMATICAL MODELING AND OPTIMIZATION OF PHOTOVOLTAIC PANEL ORIENTATION WITH SUN-TRACKING SYSTEMS  
**Edin Šemić, Emir Nezirić, Safet Isić, Ermin Husak, Samir Vojić**
- III 10** SOUND SPEED CALCULATION WITH QUINCKE'S TUBE SET-UP WITHIN DIFFERENT PARAMETRIZATIONS  
**Emina Džaferović-Mašić, Imran Husremović**
- III 11** FINITE VOLUME ANALYSIS OF THERMAL BEHAVIOUR OF BINGHAM PIPE FLOW  
**Almin Halač, Ejub Džaferović, Amra Hasečić**
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- III 12** *COMPARATIVE ANALYSIS OF THE PERFORMANCE OF TOOL MATERIALS WHEN TURNING HARDENED STEEL*  
**Mirfad Tarić, Pavel Kovač, Borislav Savković, Safet Velić, Miroslav Duspara, Dušan Ješić**
- III 13** *RESEARCH ON WELDED JOINTS WITH HETEROGENEOUS WELD METAL OF HIGH-STRENGTH STEELS IN THE AVIATION INDUSTRY*  
**A. R. Dzyubyk, I. V. Nazar, Voitovich Andriy, L. V. Dzyubyk, O. W. Soloviov, Khomych Ivan**

*Student session (MSc & PhD Presentations)*

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- III 14** *AI-ENHANCED MECHATRONIC ACTUATION AND SENSING FOR AUTONOMOUS VEHICLE DYNAMICS*  
**Emanuel Balc, Aurel Mihail Titu, Dragos - Florin Marcu, Bogdan Florea**
- III 15** *IMPACT OF VEHICLE GEOMETRY ON AERODYNAMICS: COMPARATIVE CFD STUDY OF AHMED AND DRIVAER MODELS*  
**Ammar Trakić, Mirsad Trobradović, Jasmin Šehović, Dževad Bibić**
- III 16** *ANALYSIS OF WATER MOTION IN A HYDROPOWER PLANT RESERVOIR DURING A FLOOD WAVE EVENT*  
**Mensud Đidelića, Adis Bubalo, Suad Špago, Muris Torlak, Safet Isić**
- III 17** *CONSTRUCTIONAL OPTIMIZATION OF FLUE GAS CHANNEL IN A HOT-WATER BOILER BASED ON NUMERICAL FLOW ANALYSIS*  
**Sabahudin Muharemović, Jasmin Halilović, Mersida Manjgo**
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**Session/Sekcija IV: 12:30 - 15:00**

**Moderators: Halima Hadžiahmetović, Branko Štrbac, Stipo Buljan**

**Secretary: Darko Šunjić**

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**IV 01** APPLICATION OF FAILURE MODES AND EFFECTS ANALYSIS (FMEA) FOR RELIABILITY IMPROVEMENT OF CENTRIFUGAL PUMP SYSTEMS IN INDUSTRIAL APPLICATIONS

**Cristina- Mihaela Fleacă**

**IV 02** MODELING OF THE LASER CUTTING PROCESS USING RSM BASED ON BOX-BEHNKEN DESIGN

**Derzija Begic-Hajdarevic, Izet Bijelonja, Kenan Muhamedagic, Ahmet Cekic, Edin Begovic, Maida Cohodar Husic**

**IV 03** THEORETICAL PROBLEMS OF MODELING THE TRAPEZEIDIAL THREAD CUTTER WHIRLING PROCESS

**Oleh Onysko, Volodymyr Kopei, Iryna Sculiar, Bohdan Shuliar, Andrii Perun**

**IV 04** TECHNOLOGICAL ASSURANCE OF PRODUCT SHAPE FORMATION ON THE BASIS OF COMPLEX TECHNOLOGICAL AND ECONOMIC CRITERION

**Oleg Konyukh, Taisia Nakonechna, Nazarii Kusen, Pavlo Brukhal, Tetiana Lukan, Lolita Pituley**

**IV 05** INVESTIGATION OF THE MILLING PERFORMANCE OF DIFFERENT SUPPORT STRUCTURES PRODUCED BY FDM USING HYPER PLA

**Yavuz Selim Gözüm, Mehmet Ali Bayrak, Onur Tosun, Yusuf Furkan Yapan, Haydar Livatyali, Alper Uysal**

**IV 06** ADVANCED DESIGN AND ADDITIVE MANUFACTURING STRATEGIES FOR A SCALED WIND TURBINE MODEL

**Ioana Catalina Enache, Andrei Vilcu, Oana Roxana Chivu, Andrei Iacob**

**IV 07** PERFORMANCE EVALUATION OF A LABORATORY-SCALE TUBULAR HEAT EXCHANGER FOR AIR PREHEATING APPLICATIONS

**Mirela Alispahić, Halima Hadžiahmetović, Nijaz Delalić, Lamija Srkalović**

**IV 08** RESEARCH ON ENERGY EFFICIENCY OF CONTACT-TYPE HEAT EXCHANGER NOZZLES

**Roman Klimov, Iryna Sokolovska, Olena Hlushchenko, Predrag Dašić, Tetiana Lysenko**

**IV 09** MULTIFACTOR MODELS FOR DETERMINING OPTIMAL DESIGN OF HEAT EXCHANGERS

**Roman Klimov, Oleg Zhulkovskyi, Olha Filimonenko, Predrag Dašić, Volodymyr Tonkonogyi**

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- IV 10** COMPARISON OF DIMENSIONAL DEVIATIONS IN SPHERES OF DIFFERENT WALL THICKNESSES FORMED BY EXPLOSIVE FORMING  
**Buljan Stipo, Šunjić Darko, Božo Goluža**
- IV 11** A COMPARISON BETWEEN RAYLEIGH-RITZ AND FINITE ELEMENT MODELS FOR THE STRENGTH ANALYSIS OF REINFORCED CONCRETE WALLS SUBJECTED TO BLAST LOADS  
**Domenico Guida, Daniele Melara, Rosario La Regina, Valentino Paolo Berardi, Carmine Maria Pappalardo**
- IV 12** DESIGN METHODOLOGY AND CONTROL STRATEGY FOR THE LOCOMOTION OF A TRACKED UNMANNED GROUND VEHICLE  
**Domenico Guida, Biagio Celentano, Rosario La Regina, Carmine Maria Pappalardo**
- IV 13** MECHANICAL DESIGN OF A NEW COMPOUND PLANETARY GEARBOX MOUNTED ON AN UNMANNED GROUND VEHICLE FOR OFF-ROAD APPLICATIONS  
**Carmine Maria Pappalardo, Alfonso Di Maio, Rosario La Regina, Domenico Guida**
- IV 14** OPTIMIZING CONCRETE SCREED FOR STRENGTH, DURABILITY AND WEAR RESISTANCE – MODERN CONCRETE SCREEDS  
**Sanin Džidić, Amar Čelo**

***Student session (MSc & PhD Presentations)***

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- IV 15** GAGE LINEARITY AND BIAS STUDY OF THE EXPERIMENTAL MEASURING DEVICE COMBINING LINEAR ENCODER WITH FDM TECHNOLOGY  
**Miloš Ranisavljev, Branislav Dudić, Biserka Runje, Savković Borislav, Branko Štrbac**
- IV 16** DESIGN CONCEPT OF DOUBLE-BASE SOLID-PROPELLANT MOTOR FOR SMALL SOUNDING ROCKETS  
**Ajdin Tabić, Faruk Razić, Jasmin Terzić**
- IV 17** STATISTICAL MODELLING OF THE INFLUENCE OF CEMENT CLASS ON THE COMPRESSIVE STRENGTH OF CONCRETE  
**Farah Mešanović, Sanin Džidić, Emir Hodžić**
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**Session/Sekcija V: 16:00 - 19:00**

**Moderators: Alma Žiga, Fuad Čatović, Belma Fakić**

**Secretary: Marko Čečez**

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- V 01**     *APPLICATION OF FRP BARS IN TIMBER BEAMS*  
*Merima Salčin, Azra Mahinić Vrce, Fuad Čatović*
- V 02**     *STRESS AND DEFLECTION ANALYSIS OF A WOODEN BEAM FOR A TWO-USER PLAYGROUND SWING*  
*Žiga Alma*
- V 03**     *INVESTIGATION OF THE STRESS-STRAIN STATE OF A TWO-SUPPORT BEAM TRANSITION OF A MAIN PIPELINE*  
*Dzyubyk Andriy, Grudz Volodymyr, Dzyubyk Lyudmyla, Korendiy Vitaliy, Nazar Iho, Soloviov Oleh*
- V 04**     *REGRESSION ANALYSIS OF START MARTENSITIC TRANSFORMATION IN SEMIAUSTENITIC STAINLESS STEEL 17-7PH WITH MODIFIED CHEMICAL COMPOSITION*  
*Belma Fakić, Adisa Burić, Edib Horoz*
- V 05**     *THE INFLUENCE OF ENVIRONMENTALLY FRIENDLY LUBRICATING MEDIA ON THE CHANGE IN THE QUALITY OF THE SURFACE LAYER OF A METAL-CUTTING TOOL*  
*Vladimir Skakun, Ruslan Dzhemalyadinov, Predrag Dašić, Eshreb Dzhemilov, Eldar Vaniev*
- V 06**     *PARAMETERS OF SUPERPLASTIC FORMING OF ALUMINIUM ALLOYS*  
*Mirna Nožić, Himzo Đukić*
- V 07**     *COMPUTER-AIDED DESIGN OF PRODUCTS AND TECHNOLOGIES IN CONCEPTUAL MODELING USING AN INFORMATION MODEL*  
*Tigariev Volodymyr, Lopakov Oleksii, Raul Turmanidze, Predrag Dašić*
- V 08**     *CONTRIBUTION TO THE PARAMETER IDENTIFICATION OF A CYBERNETIC SYSTEM: DRIVER-TRUCK-ENVIRONMENT*  
*Miroslav Demić, Aleksandar Đurić, Momir Drakulić, Aleksandar Grkić, Slavko Muždeka*
- V 09**     *PARAMETER REGIONS OF DIFFERENT QUALITATIVE BEHAVIOR OF RATIONAL DIFFERENCE EQUATIONS WITH QUADRATIC TERMS*  
*Naida Mujić, Jasmin Bektešević, Vahidin Hadžiabdić, Midhat Mehuljić, Sead Peco*
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- V 10** ON THE DYNAMICS OF RATIONAL DIFFERENCE EQUATIONS WITH QUADRATIC TERMS OF TYPE (1, 3)  
**Jasmin Bektešević, Vahidin Hadžiabdić, Midhat Mehuljić, Naida Mujić, Sead Peco**
- V 11** EXISTENCE AND LOCAL BEHAVIOR OF EQUILIBRIA OF RATIONAL DIFFERENCE EQUATIONS WITH NONLINEAR TERMS  
**Naida Mujić, Jasmin Bektešević, Amil Pečenković**

**Student session (MSc & PhD Presentations)**

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- V 12** A COMPARATIVE STUDY OF CODE-BASED AND NUMERICAL METHODS FOR STATIC ANALYSIS OF RC FLAT SLABS  
**Adna Likić, Sanin Džidić, Smilja Bursać**
- V 13** DETERMINANTS OF CONSTRUCTION PROJECT TIME PERFORMANCE: A COMPREHENSIVE SYSTEMATIC REVIEW  
**Emad Arebi Mamoua, Ahmed El Sayed, Lejla Odobasic Novo**
- V 14** THE EFFECT OF DIFFERENT GLASS TYPES AS REPLACEMENT FOR SAND ON PROPERTIES OF MORTAR  
**Muhammed Ratkusić, Marko Čeček, Merima Šahinagić-Isović, Sead Peco**
- V 15** ANALYSIS OF THE EFFECT OF TEMPERATURE VARIATIONS ON THE MECHANICAL CHARACTERISTICS OF ABS MECHATRONIC BRAKING SYSTEM COMPONENTS  
**Daniel Balc, Aurel Mihail Titu, Calin Gheorghe Dan Neamtu, Liviu Marius Cîrtina**
- V 16** INFLUENCE OF GRANITE POWDER AS A PARTIAL REPLACEMENT FOR CEMENT ON THE FRESH AND HARDENED PROPERTIES OF CEMENT COMPOSITES  
**Rijalda Džih, Merima Šahinagić-Isović, Marko Čeček, Fuad Čatović**
- V 17** QUALITATIVE ANALYSIS OF FACTORS INFLUENCING THE CONSTRUCTION PROJECTS SUCCESS IN BOSNIA AND HERZEGOVINA  
**Emad Arebi Mamoua, Ahmed El Sayed, Lejla Odobasic Novo**
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**Session/Sekcija VI: 16:00 - 19:00**

**Moderators: Lejla Banjanović-Mehmedović, Lucija Brezočnik, Milica Tufegdžić**

**Secretary: Amina Radončić**

- VI 01** PERIODIC POINTS AND GLOBAL DYNAMICS OF RATIONAL DIFFERENCE EQUATIONS WITH NONLINEAR TERMS  
*Naida Mujić, Jasmin Bektešević, Amil Pečenković*
- VI 02** PREDICTING UNIVERSITY SUCCESS: VALIDATING MACHINE LEARNING MODELS FOR SOCIAL MEDIA USER ENGAGEMENT  
*Engin Obucic, Mersid Poturak, Dino Keco*
- VI 03** THE IMPACT OF GENERATIVE AI TOOLS ON STUDENT ACADEMIC PERFORMANCE: MACHINE LEARNING APPROACH  
*Vladan Čolić, Enes Sukić, Milica Tufegdžić, Marija Mojsilović, Veljko Spasojević*
- VI 04** NAWI VERIFICATIONS DATA ANALYSIS WITH MACHINE LEARNING TOOLS FOR METROLOGICAL SUPERVISION  
*Haris Memić, Šejla Ališić, Almira Softić, Jasmin Kevrić*
- VI 05** AI-DRIVEN TRAJECTORY OPTIMIZATION FOR LARGE-SCALE CONSTRUCTION 3D PRINTING  
*Yaroslav Garashchenko, Predrag Dašić, Vladimir Fedorovich, Yevgeniy Ostroverkh*
- VI 06** QUANTIFYING THE IMPACT OF IMPUTATION QUALITY ON AIR QUALITY FORECASTING MODELS  
*Grega Vrbančič, Benjamin Petelinek, Vili Podgorelec, Lucija Brezočnik*
- VI 07** REAL ESTATE PRICE FORCASTING USING RANDOM FOREST REGRESSION  
*Lamija Lemeš, Edin Tabak, Samir Omanović*
- VI 08** ARCHITECTURAL THREAT AND TRUST MODELS IN DISTRIBUTED INFORMATION SYSTEMS  
*Koliada Andrii, Raul Turmanidze, Litvinov Volodymyr, Liubachevska Iryna, Giorgi Popkhadze*
- VI 09** HYBRID POST-QUANTUM QUIC HANDSHAKES ON CONSTRAINED EDGE DEVICES: DESIGN AND EVALUATION  
*Koliada Andrii, Bovnegra Liubov, Raul Turmanidze, Giorgi Popkhadze*
- VI 10** A MACHINE LEARNING FRAMEWORK FOR PREDICTING HUMAN PUBIC BONE MORPHOMETRIC PARAMETERS  
*Milica Tufegdžić, Milan Mitković, Đorđe Mirjanić, Nevena Tufegdžić*
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- VI 11** ANALYSIS OF WATER QUALITY IN SWIMMING POOLS: APPLICATION OF STATISTICS AND MACHINE LEARNING  
*Mirza Pašić, Nedim Hamzić, Izet Bijelonja, Hadis Bajrić*
- VI 12** PERFORMANCE EVALUATION OF MULTI-ANTENNA MILLIMETER-WAVE COMMUNICATION SYSTEMS IN INDUSTRIAL SCENARIOS  
*Faruk Pašić*

*Student session (MSc & PhD Presentations)*

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- VI 13** INTERACTIVE SIMULATION AND VISUALIZATION OF CHAOTIC NONLINEAR DYNAMIC SYSTEMS USING PYTHON  
*Elmir Kevilj, Ernest Gungl, Zmago Brezočnik*
- VI 14** FUZZY GRAPHS AND AGGREGATION FUNCTIONS IN VISUAL DATA SEGMENTATION  
*Irma Ibrišimović, Nebojša M. Ralević, Lidija Čomić, Bratislav D. Iričanin*
- VI 15** TOWARDS A SUSTAINABLE MODEL OF EQUESTRIAN FACILITIES  
*Hari Bibezić, Nerma Smajlović Orman*
- VI 16** AURELIA – AN EEG-BASED NEUROADAPTIVE AUDIO SYSTEM FOR MENTAL STATE CLASSIFICATION IN ADHD AND AUTISM  
*Amina Radončić, Mehrija Hasičić*
- VI 17** PORTABLE HIGH-PERFORMANCE GEMV AND GEMM ON VULKAN COMPUTE SHADERS FOR AI AND ML WORKLOADS  
*Tarik Hrnjić, Izudin Džafić, Safet Isić*
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**Session/Sekcija VII: 16:00 - 19:00**

**Moderators: Aurel Mihail Țițu, Sead Pašić, Predrag Dašić**

**Secretary: Ermin Husak**

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- VII 01** A METHOD FOR PROTECTING DIGITAL DOCUMENTS FROM UNAUTHORIZED MODIFICATION BASED ON AN IMPROVED RDH ALGORITHM USING ADAPTIVE NOISE REDUCTION  
**Yurii Yaremchuk, Vasyl Karpinets, Anatolii Hrytsak, Iryna Zoria, Yurii Ishchenko**
- VII 02** DATA-DRIVEN ASSESSMENT OF DELIVERY TIME PERFORMANCE IN UNIVERSAL POSTAL SERVICES WITHIN A MULTI-OPERATOR ENVIRONMENT  
**Ermin Muharemović, Muhamed Begović, Amel Kosovac, Samir Čaušević**
- VII 03** DIGITAL INFRASTRUCTURE AND THE SECURITY DISCOURSE: ONLINE MEDIA COVERAGE OF FEMICIDE IN BOSNIA AND HERZEGOVINA  
**Adem Olovčić, Dženana Telalagić, Ajla Aljović**
- VII 04** DIGITAL INTEGRITY MECHANISMS AND EXPERT E-SYSTEMS AS DETERMINANTS OF EFFECTIVE INSPECTION CONTROL  
**Đevad Šašić, Merima Tanović**
- VII 05** DIGITAL EVIDENCE AND REPORTING ON THE RESOLUTION OF ADMINISTRATIVE MATTERS IN ADMINISTRATIVE PROCEDURES  
**Emir Mehmedović, Rijad Delić, Đevad Šašić**
- VII 06** MODELLING MARKET FACTORS INFLUENCING THE PRICING OF DIGITAL ASSETS  
**Chukurna Olena, Olvinska Yulii, Yatvetska Hanna, Tardaskina Tetiana, Pohorielova Tetiana**
- VII 07** A COMPARATIVE ANALYSIS OF CLUSTERING ALGORITHMS FOR EMPLOYEE SEGMENTATION IN HUMAN RESOURCE MANAGEMENT INFORMATION SYSTEMS  
**Arda Alp, Filiz Ersöz**
- VII 08** ENHANCING HEMATOLOGY INTERPRETATION WITH RAG: A PRELIMINARY STUDY ON AI-GUIDED CLINICAL DECISION SUPPORT  
**Merim Jusufbegović, Vahidin Hasić, Kenan Sehić**
- VII 09** DEVELOPMENT OF A COST-EFFECTIVE IOT-BASED PROTOTYPE FOR HAZARDOUS SUBSTANCE DETECTION IN SMART HOMES  
**Alem Čolaković, Tarik Turkušić, Adisa Hasković Džubur, Nazif Salihović**
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***Student session (MSc & PhD Presentations)***

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- VII 10** STRATEGIES FOR EFFICIENT COST MANAGEMENT IN HYBRID CLOUD IT INFRASTRUCTURE  
**Marius Toderici, Aurel Mihail Titu, Calin Gheorghe Dan Neamtu**
- VII 11** ARM-AI: A MULTI-AGENT ARCHITECTURAL PARADIGM FOR AUTONOMOUS RISK MANAGEMENT IN SOFTWARE ENGINEERING  
**Claudiu Florin Iuonaş, Aurel Mihail Titu, Claudiu Florin Iuonaş**
- VII 12** PRACTICAL CYBERSECURITY AND INTEROPERABILITY ANALYSIS IN HETEROGENEOUS IEC 61850 NETWORKS  
**Burhan Ljubović, Nedim Osmić**
- VII 13** DIGITAL AND AI TOOLS IN EDUCATION: INSIGHTS FROM EDUCATORS AND LEARNERS  
**Mubina Kamberović, Suad Krilašević, Senka Krivić**
- VII 14** A REVIEW OF AREAS OF ARTIFICIAL INTELLIGENCE APPLICATION IN RAILWAY TRANSPORT  
**Aida Kalem, Nedžad Branković, Nermin Čabrić, Adisa Medić**
- VII 15** DIGITAL TOOLS FOR DATA COLLECTION AND PROCESSING FOR THE DEVELOPMENT OF THE TRANSPORT MODEL OF CITY ŽIVINICE  
**Ajdin Džananović, Mustafa Mehanović, Mirza Berković, Adnan Tatarević**
- VII 16** APPLICATION OF ARTIFICIAL INTELLIGENCE TOOLS IN MODERN AUDITING  
**Selma Beganović, Lejla Demirović, Amela Piralić, Haris Jahić**
- VII 17** EXPLORING THE ROLE OF EMERGING DIGITAL TECHNOLOGIES IN ENHANCING MANAGERIAL DECISION-MAKING  
**Radu Marian Bujdoiu, Aurel Mihail Titu**
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**Session/Sekcija VIII: 16:00 - 19:00**

Moderators: **Pero Škorput, Sadko Mandžuka, Amel Kosovac**

Secretary: **Mirzet Sarajlić**

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- VIII 01** ARTIFICIAL INTELLIGENCE-DRIVEN INNOVATION IN FINTECH: USER PERCEPTION AND TRUST AS CATALYSTS FOR TECHNOLOGY ADOPTION  
*Masrina Nadia Mohd Salleh, Juhari Noor Faezah, Nurul Izzatty Ismail, Zumalia Norzailan*
- VIII 02** A SYSTEMATIC REVIEW OF RESEARCH ON DIGITAL PLATFORMS - DEEPTech INNOVATION: BROADENING OUR HORIZONS  
*Lucas Sampaio Motta, João Pedro Passos, Selma Oliveira*
- VIII 03** CONNECTED VEHICLES DATA SOURCES FOR NATIONAL ACCESS POINT IMPLEMENTATION  
*Sadko Mandžuka, Božidar Šafran, Krešimir Vidović, Matko Matić*
- VIII 04** ANALYSIS OF TRANSACTIONAL FACTORS AND LOGISTICS CHARACTERISTICS OF DELIVERY IN E-COMMERCE USING MULTIPLE LINEAR REGRESSION  
*Amel Kosovac, Adisa Medić, Naida Šehić, Izudina Palo*
- VIII 05** THE INFLUENCE OF INFORMATION ON THE UNCERTAINTY OF CONTROL PROCESSES IN INTELLIGENT TRANSPORTATION SYSTEMS  
*Drago Ezgeta, Samir Čaušević, Ajdin Džananović, Jasmina Sikira*
- VIII 06** CONTRIBUTION TO THE RESEARCH OF THE HYBRID METHOD OF CATEGORIZATION OF ROAD TUNNELS IN THE TRANSPORT OF HAZARDOUS MATERIALS  
*Mirza Berković, Irma Pervić, Samir Džaferović*
- VIII 07** UTILIZING DATA FROM PUBLIC MOBILE TELECOMMUNICATIONS NETWORKS IN INTELLIGENT TRANSPORT SYSTEMS  
*Krešimir Vidović, Pero Škorput, Irena Čačić, Slaviša Babić*
- VIII 08** METHODOLOGICAL FRAMEWORK FOR THE INTRODUCTION OF ENERGY EFFICIENT ELECTRIC VEHICLES ON OPTIMAL ROUTES IN THE TRANSPORT CHAIN OF MUNICIPAL WASTE COLLECTION AND REMOVAL  
*Mirza Berković, Lejla Nikšić, Aida Kalem, Samir Džaferović*
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**Student session (MSc & PhD Presentations)**

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- VIII 09** *STUDY REGARDING THE DIGITAL TRANSFORMATION OF QUALITY MANAGEMENT IN KNOWLEDGE-BASED INDUSTRIAL ORGANIZATIONS*  
**Sorin Constantin Nacu, Aurel Mihail Titu**
- VIII 10** *PROCESS AUDIT AS A TOOL FOR QUALITY OPTIMIZATION IN ELECTRICAL DISCHARGE MACHINING (EDM) WITHIN THE AUTOMOTIVE INDUSTRY*  
**Ioan Dănuț Iuonaș, Aurel Mihail Titu, Claudiu Florin Iuonaș**
- VIII 11** *ASSESSMENT OF PERFORMANCE AND SAFETY PARAMETERS BETWEEN THE ILSy RWY 11 AND THE NEW RNP RWY 11 APPROACH PROCEDURE AT SARAJEVO INTERNATIONAL AIRPORT*  
**Damir Džubur, Muharem Šabić, Haris Mehčić**
- VIII 12** *A SAFETY-BASED INFRASTRUCTURE AND LEGAL FRAMEWORK FOR ELECTRIC SCOOTERS*  
**Ajdin Džananović, Adnan Omerhodžić, Alem Čolaković**
- VIII 13** *ASYMMETRIES IN LEGAL STATUS AND MARKET CONDITIONS BETWEEN SOUTHEAST EUROPEAN AND EU TRANSPORT OPERATORS*  
**Izudin Botić, Mirzet Sarajlić, Muhamed Fetić**
- VIII 14** *A COOPERATIVE APPROACH WITHIN POSTAL SECURITY SYSTEM*  
**Kljak Tomislav, Binički Marijan, Škorput Pero**
- VIII 15** *THE IMPACT OF ELECTRIC VEHICLES ON REDUCING CARBON EMISSIONS IN MUNICIPAL WASTE LOGISTICS*  
**Mirzet Sarajlić, Maida Eljazović, Nedim Kamenjašević**
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Saturday/Subota, 27 June 2026

**Session/Sekcija IX: 09:00 - 11:30**

**Moderators: Damir Špago, Suvada Šuvalija, Branislav Dudić**

**Secretary: Elma Škaljić**

- IX 01**      *TECHNO-ECONOMIC ANALYSIS OF RESIDENTIAL SOLAR COLLECTORS FOR CARBON DIOXIDE EMISSION REDUCTION IN BOSNIA AND HERZEGOVINA*  
**Damir Špago, Adin Ahmetbegović, Emir Nezirić, Merima Gadara**
- IX 02**      *EFFECTS OF BRIDGE STRUCTURES ON RIVER HYDRAULICS AND FLOOD RISK: A CASE STUDY*  
**Hata Milišić, Emina Hadžić, Suvada Šuvalija**
- IX 03**      *IMPLEMENTATION OF INTEGRATED URBAN WATER MANAGEMENT*  
**Suvada Šuvalija, Hata Milišić, Biljana Buhavac**
- IX 04**      *SUSTAINABLE WATERSHED MANAGEMENT AND MORPHOMETRIC CHARACTERISTICS: THE BIJELO POLJE BASIN, MONTENEGRO*  
**Velibor Spalevic, Branislav Dudić**
- IX 05**      *URBANISATION AND PROTECTION OF WATER SOURCES: A REVIEW OF INTEGRATED AND INTERDISCIPLINARY APPROACHES TO WATER PROTECTION ZONE MANAGEMENT*  
**Emina Hadžić, Hata Milišić, Suvada Šuvalija**
- IX 06**      *MULTI-HAZARD RISK, LANDSLIDES AND DROUGHT IN THE MONTENEGRIN COASTAL REGION: EVIDENCE, EXPOSURE PATTERNS AND GOVERNANCE GAPS*  
**Velibor Spalevic, Ivana Tomasevic, Nikola Abramovic, Rajko Novicevic**
- IX 07**      *MECHANICAL DAMAGE OF FOREST ECOSYSTEMS AFTER LOGGING – A CASE STUDY OF „RISOVAC – KRUPA“*  
**Fatima Muhamedagić, Zemira Delalić**
- IX 08**      *RESEARCH ON THE IMPACT OF INCREASED TRAFFIC ON ACCIDENT RATE IN LOCALITY DURING MARTIAL LAW*  
**Oleg Sitovskyi, Oleksandr Dubytskyi, Pavlo Mazyliuk, Danylo Yalovenko**
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- IX 09** IOT–GIS SYSTEM FOR GEOSPATIAL ANALYSIS OF GREEN AREAS IN THE CITY OF SARAJEVO  
**Alem Čolaković, Elmin Pezo, Belma Memić, Muhamed Begović, Nazif Salihović**

**Student session (MSc & PhD Presentations)**

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- IX 10** SIMULATION OF AN ACCIDENTAL AMMONIA RELEASE IN THE NERETVA RIVER DOWNSTREAM OF THE MOSTAR HYDROPOWER PLANT  
**Dževad Imamović, Hata Milišić, Haris Kalajdžisalihović**
- IX 11** DEVELOPING GREEN INFRASTRUCTURE IN PODGORICA: CHALLENGES, OPPORTUNITIES, AND NEW TECHNOLOGIES  
**Radovan Rosic, Velibor Spalevic**
- IX 12** INTENSITY OF NOISE AS AN ENVIRONMENTAL RISK FACTOR: AN ANALYSIS OF MEASUREMENTS IN THEN MUNICIPALITY OF KLJUČ  
**Mirela Smajić, Fatima Muhamedagic, Sanel Draganović**
- IX 13** FROM HAZARD RECOGNITION TO RISK REDUCTION: A COMPREHENSIVE STUDY OF PROFESSIONAL LORRY DRIVERS IN ROAD FREIGHT TRANSPORT  
**Alexandra-Florina Iamandii, Radu Stefanoiu, Aurel Mihail Titu, Claudiu-Alexandru Covaci**
- IX 14** LONG-TERM PRECIPITATION ANALYSIS – METEOROLOGICAL STATION: SARAJEVO-BJELAVE  
**Mujčić Mirza**
- IX 15** ARTIFICIAL INTELLIGENCE IN BOSNIA AND HERZEGOVINA: SCENARIOS AND STRATEGIC PATHWAYS FROM THE PERSPECTIVE OF PUBLIC ADMINISTRATION  
**Ajla Karajko, Suad Krilašević, Senka Krivić, Elma Škaljić**
- IX 16** ARTIFICIAL INTELLIGENCE IN BOSNIA AND HERZEGOVINA: SCENARIOS AND STRATEGIC PATHWAYS FROM THE PERSPECTIVE OF SCIENCE AND THE BUSINESS SECTOR  
**Elma Škaljić, Suad Krilašević, Ajla Karajko, Senka Krivić**
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**Session/Sekcija X: 09:00 - 11:30**

**Moderators: Amra Bratovčić, Darko Lovrec, Mirko Ficko**

**Secretary: Bia Mandžuka**

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- X 01**      *INTEGRATION OF BIKE-SHARING SERVICES INTO MULTIMODAL JOURNEY PLANNERS: IMPORTANCE, BENEFITS AND CHALLENGES*  
**Bia Mandžuka, Leonid Ljubotina, Krešimir Vidović, Pero Škorput**
- X 02**      *STRATEGIES FOR MONITORING BRIDGES USING 3D SURVEYING TECHNOLOGIES IN CONTEXTS OF GEOLOGICAL SUBSIDENCE*  
**Caterina Gabriella Guida, Marco Limongiello, Francesco Villecco**
- X 03**      *TOWARDS INTELLIGENT MARITIME SEARCH AND RESCUE: A CONCEPTUAL FRAMEWORK FOR UAV INTEGRATION IN COASTAL SAR*  
**Dario Medić, Mario Bakota**
- X 04**      *INTEGRATION OF BUILDING INFORMATION MODELING (BIM) AND GEOGRAPHIC INFORMATION SYSTEM (GIS): THE CASE STUDY OF THE 'EX-MOLINO MINETTI' IN CORDOBA, ARGENTINA*  
**Marco Limongiello, Michele Grimaldi, Constanza Bollatti, Francesco Villecco**
- X 05**      *DIGITAL PT SCHEME IN THE METAL INDUSTRY - CASE STUDIES*  
**Vidosav D. Majstorović, Dragan Rajnović, Jasminka Milosavljević, Vesna Vučić, Mara Kovačević**
- X 06**      *FINAL MANUFACTURING OPERATION EXCELLENCE IN AUTOMOTIVE COMPANY: A CASE STUDY LEAN SIX SIGMA APPROACH WITHIN OEM PART ASSEMBLY PROCESS FROM BOSNIA AND HERZEGOVINA*  
**Ismar Alagić**
- X 07**      *ROBUST-LEAN DESIGN OF AN AUTOMOTIVE AIR-CONDITIONING TUBE PRODUCTION LINE USING DISCRETE-EVENT SIMULATION UNDER UNCERTAINTY*  
**Lidija Rihar, Primož Podržaj, Tomaž Požrl, Marjan Jenko**
- X 08**      *VALUE CHAIN EXCELLENCE: A CASE STUDY LEAN SIX SIGMA REORGANISATION OF LAYOUT AND INDUSTRIAL PROCESSES IN COMPANY FROM BOSNIA AND HERZEGOVINA*  
**Ismar Alagić**
- X 09**      *TOTAL PRODUCTIVE MAINTENANCE (TPM) CASE STUDY: APPLICATION OF INCIDENT METRICS IN WORKING CONDITIONS OF FIRM THROUGH LSS PROJECT*  
**Ismar Alagić**
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- X 10**      *LABOUR FORCE SHRINKING – IMPLICATIONS FOR POLICY*  
*Vjekoslav Domljan, Ivana Domljan*
- X 11**      *UPDATING THE MECHANICAL ENGINEERING STUDY PROGRAM BASED*  
*ON THE EXPERIENCES OF THE PILOT PROJECT*  
*Darko Lovrec, Mirko Ficko*
- X 12**      *QUANTUM DOT-BASED HETEROGENEOUS PHOTOCATALYSTS FOR*  
*EFFICIENT CO<sub>2</sub> REDUCTION*  
*Amra Bratovčić*
- X 13**      *SUSTAINABLE DEVELOPMENT OF ORGANIC FRUIT PRODUCTION IN*  
*MONTENEGRO WITH SPECIAL EMPHASIS ON BERRY CROPS (2016-2024)*  
*Dejan Zejak, Ivan Glisic, Zora Dajic Stevanovic, Velibor Spalevic*

*Student session (MSc & PhD Presentations)*

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- X 14**      *LANDSLIDE RISK ASSESSMENT BASED ON REAL-TIME RAINFALL DATA*  
*AND GROUNDWATER FLUCTUATION MODELLING*  
*Damir Jagodić, Ahmed El Sayed, Zlatan Talić*
- X 15**      *THE SCDCM MODEL FOR SUPPLY CHAIN DEVIATION ANALYSIS IN THE*  
*AUTOMOTIVE INDUSTRY: AN INTEGRATED APPROACH TO QUALITY*  
*IMPROVEMENT AND SUPPLIER DEVELOPMENT*  
*Claudiu Alexandru Covaci, Aurel Mihail Titu, Daniel Balc, Emanuel Balc,*  
*Adrian Bogorin-Predescu*
- X 16**      *THE ROLE OF EMPLOYER FAMILIARITY IN SHAPING EXPECTED*  
*FUNCTIONAL BENEFITS OF EMPLOYER ATTRACTIVENESS AMONG*  
*FINAL-YEAR STUDENTS*  
*Milena Radenovic, Ensar Mekic, Lejla Sehanovic*
- X 17**      *HOW EMPLOYER FAMILIARITY SHAPES EMPLOYER BRAND EQUITY:*  
*INVESTIGATING MODERATING EFFECTS OF AGE AND GENERALIZABLE*  
*DECISION PROCESSING*  
*Milena Radenovic, Lejla Sehanovic, Samira Avdic, Mersid Poturak*
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**Session/Sekcija XI: 09:00 - 11:30**

**Moderators: Munira Šestić, Zijada Rahimić, Isat Skenderović**

**Secretary: Ermin Husak**

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- XI 01**     *VARIABILITY OF THE MORPHOMETRIC CHARACTERISTICS OF THE BALKAN GOLDEN LOACH (*Sabanejewia balcanica*) FROM THE WATERS OF THE SAVA RIVER BASIN*  
**Alen Bajrić, Edina Hajdarević, Isat Skenderović**
- XI 02**     *PRECIPITATION OF HEAVY METALS FROM GALVANIC WASTEWATER USING CAO DERIVED FROM EGGSHELL WASTE*  
**Halid Junuzović, Sabina Begić, Amra Selimović, Melisa Ahmetović**
- XI 03**     *DETERMINATION OF Mn (II) IONS FROM NATURAL WATERS BY FAAS METHOD AFTER PRECONCENTRATION BY ZEOLITE*  
**Halid Junuzović, Amra Selimović, Sabina Begić, Indira Šestan**
- XI 04**     *INFORMATION SYSTEM FOR DECISION SUPPORT FOR EFFECTIVE MANAGEMENT OF BIOLOGICAL WASTEWATER TREATMENT*  
**Iryna Chub, Sergii Tymchuk, Oleksandr Shendryk, Shendryk Sergii**
- XI 05**     *WHAT MATTERS TO THEM? GENERATION Z AND THEIR EXPECTATIONS AS FUTURE EMPLOYEES: A RESEARCH PATH TOWARDS COMPARING TWO CONTEXTS*  
**Zijada Rahimić, Zlatko Nedelko, Vojko Potočan, Munira Šestić**
- XI 06**     *NEW TECHNOLOGIES IN STUDYING ADOLESCENTS' YOUTH–NATURE INTERACTIONS: INSIGHTS FROM A MIXED-METHODS APPROACH*  
**Valentina Smolovic, Nebojsa Zizic, Velibor Spalevic**
- XI 07**     *INHABITING THE CITY: SPATIAL ECOLOGIES FOR ACTIVE AGEING. ENVIRONMENTAL QUALITY, PROXIMITY-BASED SYSTEMS, AND HOME AUTOMATION AS KEY ENABLERS*  
**Letizia Carrera**
- XI 08**     *COMPARISON OF THE E-COMMERCE MARKETS IN SLOVAKIA AND BOSNIA AND HERZEGOVINA*  
**Branislav Dudić, Danijela Pantović, René Pawera, Jaroslav Vojtechovský, Nikola Žureková**
- XI 09**     *THE IMPACT OF COMMUNITY MARKETING ON CRYPTOCURRENCY PERFORMANCE: EMPIRICAL INSIGHTS FROM ONLINE SEARCH ACTIVITY*  
**Marko Trišić, Ivan Lazović, Dejan Antanasković**
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- XI 10** CONSUMER PERCEPTION OF HEALTHY FOOD BRANDS WITH A FOCUS ON ORGANIC PRODUCTS  
**Branislav Dudić**
- XI 11** QUALITATIVE DATA ANALYSIS FOR AN STUDY OF WINE TOURISTS  
**Danijela Pantović, Alexandra Mittelman, Jovana Davidović, Eleonóra Beňová, Branislav Dudic**
- XI 12** THE EFFECTS OF DIGITAL TECHNOLOGIES ON LANGUAGE AND COMMUNICATION AMONG YOUTH IN MONTENEGRO  
**Danijela Radojević, Velibor Spalevic**
- XI 13** WOMEN IN BUSINESS IN THE 21ST CENTURY: CHALLENGES OF THE SOCIO-ECONOMIC TRANSITION IN SPECIFIC CONTEXTS  
**Marija Ivaniš, Munira Šestić, Anes Hrnjić**
- XI 14** EDUCATIONAL INNOVATIONS FOR INDUSTRY 4.0/5.0: PEDAGOGICAL PERSPECTIVES ON INTELLIGENT SYSTEMS AND EMERGING TECHNOLOGIES  
**Izet Pehlić, Nermin Tufekčić**
- XI 15** PRIORITY TYPES OF INDEPENDENT WORK FOR ENGINEERING STUDENTS IN THE DIGITAL EDUCATIONAL ENVIRONMENT: EVOLUTION, ANALYSIS AND PROSPECTS  
**Tatyana Gordienko, Anna Mezentseva, Marina Stanojević, Ivana Marjanović**

***Student session (MSc & PhD Presentations)***

- XI 16** A SYSTEMATIC REVIEW OF INVESTOR/CLIENT FACTORS CAUSING CONSTRUCTION DELAYS  
**Emir Bračković, Sanin Džidić**
- XI 17** WHICH TYPE OF EDUCATION SHAPES ENTREPRENEURIAL MINDSET? EVIDENCE FROM VET SCHOOLS IN BOSNIA AND HERZEGOVINA  
**Admir Salihagic, Ermin Cero**
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**Session/Sekcija XII: 09:00 - 11:30**

**Moderators: Mirha Bičo Ćar, Elvir Šahić, Elvir Čizmić**

**Secretary: Amina Radončić**

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- XII 01** REMOTE WORK PRODUCTIVITY AND ORGANIZATIONAL POLICIES: EMPLOYEE' PERCEPTIONS IN BOSNIA AND HERZEGOVINA  
**Elvir Šahić, Munira Šestić, Anes Hrnjić, Delila Tucaković**
- XII 02** FEMALE ENTREPRENEURS 4.0 IN BOSNIA AND HERZEGOVINA: IS 4IR AN OPPORTUNITY OR A THREAT?  
**Munira Šestić, Elvir Čizmić, Zijada Rahimić, Azra Mujagić**
- XII 03** ARTIFICIAL INTELLIGENCE IN HRM AND ORGANIZATIONAL LEARNING CULTURE: IMPACTS ON LEADERSHIP AND TEACHER PERFORMANCE  
**Juhari Noor Faezah , Nurul Izzatty Ismail, Masrina Nadia Mohd Salleh, Noor Azlina Mohd Yusoff**
- XII 04** EFFECTS OF DIGITALIZING CIVIL REGISTRY RECORDS IN THE FEDERATION OF BOSNIA AND HERZEGOVINA  
**Enes Saletović, Muhamed Fetić, Đulaga Hadžić**
- XII 05** MODEL FOR THE ASSESSMENT OF FINANCIAL REPORTING QUALITY IN CONTEMPORARY MANAGEMENT  
**Haris Jahić Amela Piralić, Lejla Demirović**
- XII 06** STATE-OWNED ENTERPRISES IN BOSNIA AND HERZEGOVINA: FOOTPRINT, PERFORMANCE AND FISCAL IMPACT  
**Aida Soko, Mirza Kršo**
- XII 07** DIGITAL TRANSFORMATION OF CAREER COUNSELING IN ALBANIA: AMELORA PLATFORM  
**Valbona Habili Sauku, Fleura Shkëmbi, Ana Memo, Silva Ibrahim**
- XII 08** RISK SOCIETY AND TECHNOLOGY: THE TECHNOSPHERE – A SPHERE OF POSSIBILITIES AND RISKS/DRUŠTVO RIZIKA I TEHNOLOGIJA: TEHNOSFERA - SFERA MOGUĆNOSTI I RIZIKA  
**Halima Sofradžija, Abdel Alibegović, Ajdin Sofradžija, Irena Praskač-Salčin, Nedreta Šerić**
- XII 09** INNOVATIVE SOLUTIONS IN SHAPING THE ORGANISATIONAL STRUCTURE OF ENTERPRISE MANAGEMENT IN THE CONTEXT OF DIGITALISATION  
**Liubov Niekrasova, Kateryna Zaichenko, Tetiana Nosova, Dmytro Ivashkin, Snežana Topalović**
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- XII 10** *ENTROPY ANALYSIS OF POLITICAL SYSTEMS IN AN EXPONENTIAL SOCIETY: A SOCIOLOGICAL-THERMODYNAMICAL APPROACH TO ASSESSING THE STABILITY OF PUBLIC ADMINISTRATION AND THE EFFICIENCY OF POLITICAL LEADERSHIP*  
**Kateryna Voloshina, Oksana Shelomovska, Ruslan Voloshin, Marina Stanojević, Jelena J. Stanković**
- XII 11** *ETHICS BY DESIGN: EMBEDDING MORAL RISK ASSESSMENT INTO MANAGEMENT PRODUCT ROADMAPS*  
**Aelita Mani, Arbi Agalliu**
- XII 12** *THE METHODS OF USER JOURNEY MAP DEVELOPMENT AND DEPLOYMENT WITH COST-BENEFIT EVALUATION*  
**Liubov Bovnegra, Snizhana Kutsyn, Marina Stanojević, Bojana Novičević Čečević**
- XII 13** *IMPACT OF GREEN FINANCE ON THE FOREIGN DIRECT INVESTMENTS IN THE EUROPEAN UNION*  
**Jasna Imamovic, Irfan Djedovic, Edin Djedovic, Naida Misimovic Custovic**
- XII 14** *RECONCEPTUALIZING SERVICE QUALITY IN RESOURCE-CONSTRAINED PUBLIC HEALTHCARE: A SERVQUAL PERSPECTIVE ON MALAYSIA*  
**Juhari Noor Faezah, Wazli Watisin, Nurul Izzatty Ismail, Masrina Nadia Mohd Salleh**
- XII 15** *BASIC PRINCIPLES OF MOTIVATION AS AN OBJECT OF MANAGEMENT INFLUENCE ON THE INNOVATIVE ACTIVITIES OF BUSINESS ENTITIES*  
**Svitlana Kolontai, Angelina Petrashevsk, Liubov Niekrasova, Anastasïa Dyskina, Ana Zivkovic**

*Student session (MSc & PhD Presentations)*

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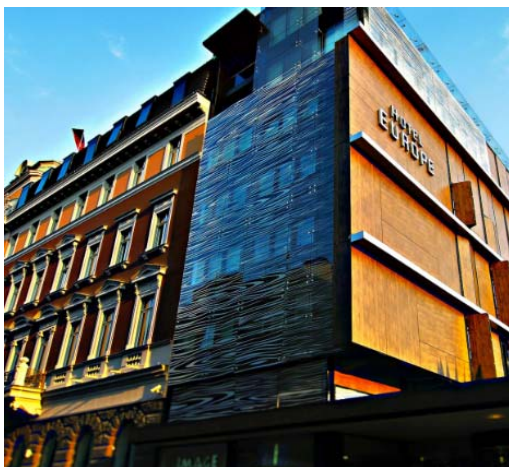
- XII 16** *OPPORTUNITIES AND CHALLENGES FOR BOSNIAN START-UPS IN THE GLOBAL CARBON OFFSET MARKET*  
**Selma Vežgagić, Adisa Omerbegović- Arapović, Malcolm Duerod, Sanel Halilbegović**
- XII 17** *MEASURING PUBLIC ATTITUDES TOWARD PLANTING DROUGHT-RESISTANT LINDEN TREES: A LOCAL CLIMATE CHANGE INITIATIVE IN BOSNIA AND HERZEGOVINA*  
**Selma Vežgagić, Adisa Omerbegović- Arapović, Malcolm Duerod, Sanel Halilbegović**
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12<sup>th</sup> International Conference "New Technologies NT-2026"  
12. Internacionalna konferencija „Nove tehnologije NT-2026“

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***DINNER FOR PARTICIPANTS „NT - 2026“  
ZAJEDNIČKA VEČERA UČESNIKA „NT - 2026“***

***Restaurant „HOTEL EUROPE“***



***Friday/Petak, 26 June 2026 in 20:00***

***Dinner for participants  
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Tel:+387 33 580-400***

***Zajednička večera učesnika  
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25<sup>th</sup>-27<sup>th</sup> June 2026  
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***Održavanje konferencije  
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*Academy of Sciences and Arts of Bosnia and Herzegovina*

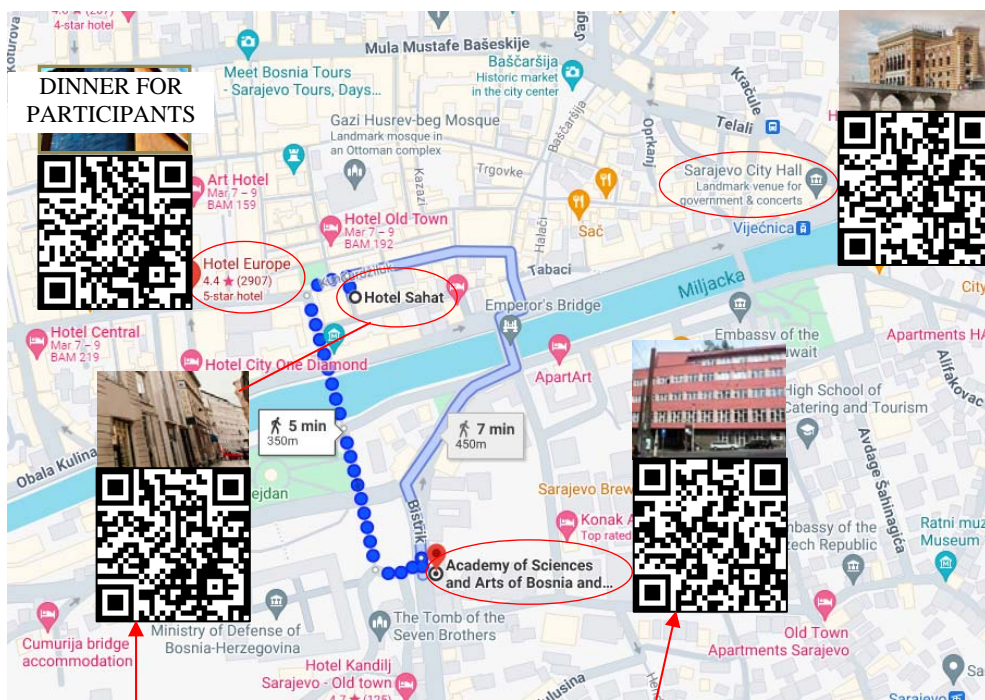
***Saturday/Subota, 27 June 2026 in 12:00***

<b><i>Final Plenary Session 12<sup>th</sup> Conference „NT-2026“</i></b>	<b><i>Završna plenarna sjednica 12. Konferencije „NT-2026“</i></b>
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<b><i>Conference venue "New Technologies NT-2026" 25<sup>th</sup>-27<sup>th</sup> June 2026 Academy of Sciences and Arts of Bosnia and Herzegovina St. Bistrik 7 SARAJEVO</i></b>	<b><i>Održavanje konferencije „Nove tehnologije NT-2026“ 25-27. juna 2026. Akademija nauka i umjetnosti Bosne i Hercegovine Bistrik 7 SARAJEVO</i></b>
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