

10th International Conference „New Technologies, Development and Application“
10. 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-2024

CONFERENCE | PROGRAM PROGRAM | KONFERENCIJE



Sarajevo | Sarajevo
Bosnia and Herzegovina | Bosna i Hercegovina
20th-22nd June 2024 | 20-22. juna 2024.

*10th International Conference “New Technologies NT-2024”
10. Internacionalna konferencija „Nove tehnologije NT-2024“*

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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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*10th International Conference
NEW TECHNOLOGIES
DEVELOPMENT AND APPLICATION*

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| <i>Sarajevo Bosnia and Herzegovina 20th-22nd June 2024</i> | <i>Sarajevo Bosna i Hercegovina 20-22. juna 2024.</i> |
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CONFERENCE PROGRAM
PROGRAM KONFERENCIJE

Thursday/Četvrtak, 20 June 2024

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

Friday/Petak, 21 June 2024

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

Opening - Svečano otvaranje 10th Conference "NT-2024"
Welcoming speech/Pozdravna riječ

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

SESSION SCHEDLUE/RASPORED SEKCIJA „NT-2024“

Friday/Petak, 21 June 2024

Plenary Session - Plenarna sjednica

10:00 – 12:00 h

Hall/Sala: "Velika sala"

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

Session I-III/Sekcija I-III: 12:30-15:00 h

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

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

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

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

Session IV-VI/Sekcija IV-VI: 16:00-19:00 h

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

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

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

Saturday/Subota, 22 June 2024

Session VII-IX/Sekcija VII-IX: 09:00-11:30 h

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

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

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

Friday/Petak, 21 June 2024

Plenary Session - Plenarna sjednica

10:00 – 12:00 h

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

- 001** *ADVANCES IN MATERIALS FOR ENERGY STORAGE AND ITS SUSTAINABILITY*
M.V. Venkatasamy Reddy
- 002** *A REVIEW OF DATA SCIENCE APPROACHES TO QUALITY CONTROL IN MANUFACTURING*
Bernhard Mitschang
- 003** *POTENTIAL OF GENERATIVE AI IN ENGINEERING: FROM MATERIALS DESIGN TO ROTOR PROFILE OPTIMISATION*
Sathiskumar Anusuya Ponnusami
- 005** *ADDITIVE MANUFACTURING AND METALS IN BIOMEDICAL APPLICATIONS*
Igor Drstvenšek
- 005** *ARTIFICIAL INTELLIGENCE BASED URBAN TRAFFIC CONTROL*
Edouard Ivanjko

Coffee break - Kafe pauza

12:00 - 12:30 h

Friday/Petak, 21 June 2024

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

Moderators: **Samir Lemeš, Janez Gotlih, Aurel Mihail Țițu**

Secretary: **Mehmed Mahmić**

- I 01 SEMI-SYNCHRONOUS MOVEMENTS OF TWO COLLABORATIVE UR10E ROBOTS CONTROLLED BY MATLAB VIA TCP/IP PROTOCOL**
Timi Karner, Luka Krapež, Matic Petauer, Janez Gotlih, Rok Belšak
- I 02 FROM INDUSTRIAL ROBOTS TO COLLABORATIVE ROBOTS: EXPLORING THE TRANSFORMATION IN THE COLLABORATIVE WORK ENVIRONMENT**
Vasile Gusan, Aurel Mihail Țițu, Adrian Bogorin-Predescu, Petrică Tertoreanu, Daniel Bâlc, Alina Bianca Pop
- I 03 USING ARTIFICIAL INTELLIGENCE IMAGE GENERATORS IN PRODUCT DESIGN WITHIN INDUSTRY 4.0**
Samir Lemeš, Muharem Keleštura, Edin Tabak, Nevzudin Buzadija
- I 04 DEVELOPING 3D WELDING PROCESS WITH SIEMENS NX AND KUKA ROBOT MANIPULATOR**
Rok Belšak, Robert Plevčak, Janez Gotlih, Tomaž Vuherer, Mirko Ficko, Timi Karner
- I 05 COMPARISON OF TWO CONTROL STRATEGIES FOR A QUARTER DRONE SYSTEM**
Rosario La Regina, Maria Curcio, Ömer Ekim Genel, Carmine Maria Pappalardo
- I 06 DEVIATION ANALYSIS OF UPPER LEG ANGLE MEASUREMENTS: INSIGHTS INTO INERTIAL SENSOR PLACEMENT STRATEGIES**
Mustafa Bevrnja, Adisa Vučina, Hadis Bajrić
- I 07 A DYNAMIC STUDY ON THE KEY ASPECTS OF A HELICOPTER MAIN TRANSMISSION SYSTEM**
Rosario La Regina, Maria Curcio, Ömer Ekim Genel, Carmine Maria Pappalardo
- I 08 EFFICIENT 3D ALIGNMENT OF PHYSICAL STRUCTURES WITH CAD MODEL NOMINALS IN MANUFACTURING: A GENETIC ALGORITHM APPROACH**
Janez Gotlih, Marko Pišek, Timi Karner, Rok Belšak, Miran Brezočnik
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- I 09** INVESTIGATION OF CONDITIONS OF DIRECTED THERMAL INFLUENCE ON CHANGES OF PHYSICAL AND MECHANICAL PROPERTIES OF DIAMOND GRAINS IN A GRINDING WHEELS
Valerii Lavrinenko, Halyna Ilnytska, Volodymyr Smokvyna, Predrag Dašić, Vladimir Fedorovich
- I 10** A CONTRIBUTION TO THEORETICAL-EXPERIMENTAL RESEARCH OF TRANSVERSE VIBRATIONS OF THE AXLE SPINDLE LEVER OF A COMMERCIAL MOTOR VEHICLE
Miroslav Demić
- I 11** DYNAMICAL BEHAVIOR OF THE GLYCOLYSIS MODEL INVOLVING THE FRACTIONAL CAPUTO DERIVATIVE
Fatiha Mesdoui, Naziha Belmahi, Raffaele Romano, Piercarlo Cattani, Francesco Villecco
- I 12** FUNCTIONALITY-RELATED PERFORMANCE OF SURFACE MICRORELIEF EVALUATION IN ULTRASONICALLY AND SHOT PEENED INCONEL 718 ALLOY MANUFACTURED BY LASER POWDER BED FUSION PROCESS
Dmytro Lesyk, Silvia Martinez, Bohdan Mordyuk, Daniel Grochala, Aitzol Lamikiz
- I 13** ON THE DESIGN OF EXPERIMENTS METHODOLOGY FOR THE OPTIMAL DESIGN OF A NEW MACHINERY
Salvio Veneziano, Marco Claudio De Simone
- I 14** ELECTRODE SELECTION FOR WIRE-CUT ELECTRICAL DISCHARGE MACHINING PROCESS
Do Duc Trung, Aleksandar Ašonja, Duong Van Duc, Nong Thi Thanh Nga
- I 15** THE COMPARISON OF THE FRACTURE BEHAVIOR OF WELD METAL IN P235GH STEEL PIPES WITH VARYING GEOMETRICAL DIMENSIONS AND UTILIZED WELDING TECHNOLOGIES
Bajtarević-Jeleč Amna, Aleksija Đurić, Nedeljko Vukojević, Lamija Mešeljević
- I 16** MODELLING HEAT INPUT OF PULSED GMAW AS THE FUNCTION OF WELD GEOMETRY
Petar Tasić, Ismar Hajro, Almira Softić
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Session/Sekcija II: 12:30 - 15:00 h

Moderators: Darko Lovrec, Adis J. Muminovic, Carmine Maria Pappalardo

Secretary: Vito Tič

- II 01** IONIC HYDRAULIC FLUIDS AS POTENTIAL HYDRAULICS FLUID FOR AVIATION
Darko Lovrec, Vito Tič
- II 02** EFFECT OF INFILL STRUKTURE ON MECHANICAL PARAMETERS OF FDM 3D PRINTED PLA AND PLA+CF MATERIALS: CHARACTERIZATION AND COMPARATIVE ANALYSIS
Emine Hozdić, Elvis Hozdić
- II 03** EXPERIMENTAL STUDY OF TENSILE MECHANICAL PROPERTIES OF FDM 3D PRINTED MATERIAL AND TECHNO-ECONOMIC ANALYSIS USING DEFINITIVE SCREENING DESIGN
Alma Idrizbegović, Adi Pandžić, Zedina Lavić, Edin Kadrić
- II 04** PROPERTIES AND APPLICATION OF WOOD-PLASTIC COMPOSITES OBTAINED BY FDM 3D PRINTING
Murčo Obučina, Seid Hajdarević, Sandra Martinović, Muhammed Jusufagić
- II 05** 3D PRINTED TOY WATCH WITH MECHANICAL IRIS
Alma Žiga, Amer Ćaro, Lamija Mešeljević
- II 06** ANALYTICAL INVESTIGATION OF THE TAPERED THREAD HELIX ANGLE
Oleh Onysko, Volodymyr Kopei, Tetiana Lukan, Ivan Havryliuk, Yurii Bukatka
- II 07** DEVELOPMENT OF A CAD-MBD-FEM MODEL FOR THE DESIGN AND ANALYSIS OF A HELICOPTER TAIL ROTOR SYSTEM
Maria Curcio, Rosario La Regina, Carlos Pérez Carrera, Carmine Maria Pappalardo
- II 08** OPTIMIZATION OF END MILLING PARAMETERS USING AFRICAN VULTURE OPTIMIZATION ALGORITHM
Mića Đurđev, Mijodrag Milošević, Dejan Lukić, Velibor Premčevski
- II 09** OPTIMIZATION OF VACUUM-PLASMA COATING APPLICATION TECHNOLOGY BY STRENGTH AND PLASTICITY CRITERIA
Evhen Solovykh, Ihor Shepelenko, Volodymyr Shumliakivsky, Stanislav Katerynych, Andrey Solovuch
- II 10** B-SPLINE COLLOCATION METHOD FOR THE FOURTH-ORDER DYNAMIC BEAM EQUATION
Kelthoum Lina Redouane, Nouria Arar, Piercarlo Cattani, Francesco Vilecco
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- II 11** INVESTIGATION IN STRUCTURE OF FUSION ZONE OF WELDED JOINT OF HIGH-STRENGTH STEEL WITH AUSTENITE WELD
Andrij Dzyubyk, Lidiya Lisovska, Andriy Voitovich, Ivan Khomych, Oleh Soloviov, Liudmyla Dzyubyk
- II 12** DESIGN OF AN INTRINSICALLY STABLE MOTION DEVICE FOR BUILDING SITE ELEVATORS
Angelo Lorusso, Marco Claudio De Simone
- II 13** CONTACT PERFORMANCE, FAILURE MECHANISMS, AND TOOTH LOAD-CARRYING CAPACITY OF THESELF-MATED PVDF GEAR PAIRS
Enis Muratovic, Adil Muminovic, Adis J. Muminovic, Nedim Pervan
- II 14** OPTIMISATION OF FIBER LASER CUTTING OF STAINLESS STEEL USING TOPSIS - SHANNON ENTROPY METHOD
Derzija Begic-Hajdarevic, Kenan Muhamedagic, Ahmet Cekic, Maida Cohodar Husic
- II 15** BUILDING COMPETITIVENESS IN INDUSTRY 5.0: THE ROLE OF AI IN IMPROVING PRODUCTION EFFICIENCY
Luka Đorđević, Mihalj Bakator, Borivoj Novaković, Mića Đurđev
- II 16** USING MEALPY OPEN-SOURCE LIBRARY FOR OPTIMIZATION OF CONSTRAINED ENGINEERING PROBLEMS
Mića Đurđev, Luka Đorđević, Borivoj Novaković, Dalibor Šeljmeši
- II 17** DESIGN OF A DYNAMIC ABSORBER FOR A VIBRATING FRAME WITH THREE DEGREES OF FREEDOM
Angela Donadio, Giuseppe Isola, Valentino Paolo Berardi, Carmine Maria Pappalardo

Session/Sekcija III: 12:30 - 15:00 h

Moderators: Isak Karabegović, Sead Pašić, Samir Vojić

Secretary: Edisa Drekočić

- III 01** ADVANCED ROBOTICS AS THE DRIVE OF INNOVATION: THE ROLE OF THE IMPLEMENTATION OF ADVANCED ROBOTICS IN INDUSTRY 4.0
Isak Karabegović, Mehmed Mahmić, Edina Karabegović, Ermin Husak
- III 02** ANALYSIS OF THE CALIBRATION OF DIFFERENT TYPES OF INCUBATORS AND THEIR CALIBRATION DEVIATIONS
Melisa Šabanović, Narcisa Jarović-Bajramović
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- III 03** *FREQUENCY CONSTRAINTS IN OPTIMIZATION OF STRUCTURES*
Ermin Husak, Mehmed Mahmić
- III 04** *OPTIMUM DISTRIBUTION OF DEFORMATIONS WHEN DESIGNING
AXISYMMETRICAL OBJECTS*
Mirna Nožić, Himzo Đukić
- III 05** *ON SOME COMMON CENTRIFUGAL PUMPS NATURAL FREQUENCY
ISSUES*
Emir Nezirić, Safet Isić
- III 06** *THE EFFECT OF PHANTOM LIMB PAIN ON THE MOVEMENT AND
SENSORIMOTOR CONTROL*
Zlata Jelačić
- III 07** *SELECTION OF REFRIGERANT FOR DATA CENTER COOLING SYSTEM
UTILISING MOORA MCDM METHOD*
Džana Kadrić, Rejhana Blažević, Ajdin Vatreš, Edin Kadrić
- III 08** *ANALYSIS OF QUALITY OF THE INLET WALL MATERIAL*
Belma Fakić, Adisa Burić, Edib Horoz
- III 09** *DESIGNING AND 3D DIGITAL DEVELOPMENT OF A PROSTHETIC PROP
BASED ON THE EXAMPLE OF A HUMAN FOOT*
Zlata Jelačić, Remzo Dedić
- III 10** *COMPARATIVE ANALYSIS OF VEHICLE DECELERATION MEASUREMENT
DEVICES*
Jasmin Šehović, Mirsad Trobradović
- III 11** *EXPERIMENTAL HEAT TREATMENT OF S355J2H STRUCTURAL STEEL*
Faruk Razić, Miralem Burek, Edin Džih, Sabina Serdarević – Kadić
- III 12** *DISRUPTIVE TECHNOLOGIES THROUGH THE LENS OF APPLICATIONS IN
THE AUTOMOTIVE INDUSTRY*
Edisa Drečković, Žaklina Teofilović, Nenad Jovanović
- III 13** *CONSTRUCTION OF VENDING MACHINE OPERATED BY ARDUINO
MICROCONTROLLER*
Murić Rijad, Vojić Samir, Ismet Fatkić
- III 14** *APPLICATION OF VARIOUS TYPES OF FIBER REINFORCED MATERIAL IN
TIMBER STRUCTURES*
Merima Salčin, Edin Džih, Fuad Čatović
- III 15** *SELECTION OF THE OPTIMAL HOUSEHOLD HEATING AND COOLING
SYSTEM IN HERZEGOVINA USING THE SIMPLEX METHOD FROM THE
COST ASPECT*
Damir Špago, Halima Hadžiahmetović, Safet Isić, Almina Prevljak
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- III 16** MODELING OF HYBRID ENERGY SYSTEMS BASED ON RENEWABLE ENERGY SOURCES TO COVER THE ELECTRICITY NEEDS OF A HIGHER EDUCATION INSTITUTION USING HOMER PRO SOFTWARE
Halima Hadžiahmetović, Damir Špago, Azrduin Husika, Hadiđe Šehić
- III 17** SIMULATING THE EFFECT OF ECONOMIC DEVELOPMENT ON THE USE OF RENEWABLE ENERGY IN SOUTHEAST EUROPEAN UNION COUNTRIES
Irfan Džedović, Jasna Imamović, Lejla Šehanović, Nataša Tandir

Session/Sekcija IV: 16:00 - 19:00 h

Moderators: Nihad Hodzic, Hadis Bajrić, Ivanov Viktor

Secretary: Kenan Kadic

- IV 01** INDUSTRY 4.0 APPROACHES TO THE STANDARDIZATION OF SPUR BEVEL GEARS
Ivanov Viktor, Dimitrov Lubomir, Ivanova Svitlana, Urum Galyna
- IV 02** COMPARISON OF BUCKET BRIGADES AND WORKING BALANCE TYPES OF LEAN CELLULAR PRODUCTION
Hadis Bajrić, Faris Ferizbegović, Faris Deraković, Mirza Pašić
- IV 03** ACCURACY OF LARGE-PITCH SCREW THREAD MANUFACTURED WITH THE DOUBLE-POINT LATHE CUTTING TOOL. KINEMATIC STUDY.
Oleh Onysko, Volodymyr Kopei, Iuliia Medvid, Roman Faryliuk, Iurii Matei
- IV 04** FATIGUE LIFE ANALYSIS OF GANTRY CRANE
Viktor Strelbitskyi, Liubov Bovnegra, Raul Turmanidze
- IV 05** GEOMETRIC MODEL OF NC12 TOOL-JOINT THREAD TURNING WITH A DOUBLE-POINT TOOL
Oleh Onysko, Volodymyr Kopei, Lolita Pituley, Iurii Matei, Roman Faryliuk
- IV 06** ANALYSIS AND MODELING OF DISSIPATIVE TOWERS FOR SEISMIC PROTECTION OF BUILDINGS
Marco Claudio De Simone, Giampiero Celenta, Domenico Guida
- IV 07** INDUSTRY 4.0 TO SOCIETY 5.0: CHANGE IN PRODUCTION AND MANAGEMENT SYSTEMS
Mihalj Bakator, Dragan Čočkalo, Sanja Stanisavljev, Stefan Ugrinov
- IV 08** INFLUENCE OF THERMOSTATIC CONTRIBUTIONS OF STABILITY AND (IN) HOMOGENEITY ON CALIBRATION RESULTS OF SELF-INDICATING THERMOMETERS
Narcisa Jarović-Bajramović, Melisa Šabanović
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- IV 09** *EXPERIMENTAL STUDIES OF THE HOLES QUALITY PARAMETERS IN POLYMER COMPOSITE MATERIALS*
Borys Lupkin, Oleksii Andriev, Kateryna Maiorova, Victor Antonyuk, Serhii Tolstoi
- IV 10** *STUDY OF HEAT TREATMENT PROCESSES IN THE PRODUCTION OF POROUS THERMAL INSULATION MATERIALS*
Roman Klimov, Iryna Sokolovska, Predrag Dašić
- IV 11** *AN EVALUATION OF THE PERFORMANCE OF THE ODE SOLVERS IMPLEMENTED IN MATLAB FOR SIMULATING MULTIBODY SYSTEMS*
Ömer Ekim Genel, Carlos Pérez Carrera, Şefika İpek Lök, Carmine Maria Pappalardo, Domenico Guida
- IV 12** *DYNAMICAL BEHAVIOR OF THE FRACTIONAL GOLDBETER-LEFEVER MODEL*
Naziha Belmahi, Fatiha Mesdoui, Andrea Formato, Piercarlo Cattani, Francesco Vилlecco
- IV 13** *B-SPLINES NUMERICAL SIMULATION OF BERNOUILLI'S BEAM EQUATION*
Kelthoum Lina Redouane, Nouria Arar, Piercarlo Cattani, Francesco Vилlecco
- IV 14** *ENHANCING INSPECTION METHODOLOGY OF SOLAR POWER PLANTS THROUGH INTEGRATED INFRARED THERMOGRAPHY AND 3D DATA FUSION*
Caterina Gabriella Guida, Marco Limongiello
- IV 15** *GLOBAL SOLAR ENERGY*
Branislav Nedbálek, Branislav Dudić, Pavel Kovač, Borislav Savković, Dušan Ješić
- IV 16** *QUALITATIVE ANALYSIS OF THE CORRELATION BETWEEN HEAT TRANSFER COEFFICIENT AND PRESSURE PULSATIONS*
Nihad Hodzic, Kenan Kadic
- IV 17** *THE EFFECT OF OXYGEN CONTENT VARIATION IN THE COMBUSTION ATMOSPHERE ON EMISSION OF POLLUTANTS DURING THE COMBUSTION OF DIFFERENT SOLID FUELS*
Kenan Kadic, Nihad Hodzic
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Session/Sekcija V: 16:00 - 19:00 h

Moderators: Lejla Banjanovi-Mehmedovic, Savo Stupar, Gordana Jovanovic Dolecek

Secretary: Lucija Brezočnik

- V 01** *TOWARDS A GREENER FUTURE: SENSOR-BASED MATERIAL CHARACTERIZATION IN WASTE SORTING FOR A SUSTAINABLE RECYCLING MODEL*
Lejla Banjanovi-Mehmedovic, Nedim Dželilović
- V 02** *OPTIMIZED DIGITAL TWIN NETWORKS*
Piercarlo Cattani, Francesco Villecco
- V 03** *APPLICATION, CHALLENGES AND THE FUTURE OF NFT TECHNOLOGY*
Savo Stupar, Elvir Šahić, Mirha Bičo Čar, Maida Cico
- V 04** *IMPROVING PASSBAND IN COSINE-BASED CIC DECIMATION FILTER WITH IMPROVED WORST-CASE ALIASING ATTENUATION*
Gordana Jovanovic Dolecek, Isak Karabegovic
- V 05** *PREDICTING HOUSEHOLDS' SHORT-TERM POWER CONSUMPTION UTILIZING LSTM*
Grega Vrbančič, Vili Podgorelec, Lucija Brezočnik
- V 06** *THE IMPACT OF DIGITAL TRANSFORMATION TO THE CRIMINAL LAW ASSETS*
Arben Prifti
- V 07** *FLEXIBLE AND TRANSPORTABLE ILLUMINATION CONTROL SYSTEM FOR MACHINE VISION APPLICATIONS*
Muhamed Gušić, Emir Sokić
- V 08** *PROMISING AI APPLICATIONS IN POWER SYSTEMS: EXPLAINABLE AI (XAI), TRANSFORMERS, LLMs*
Oleh Lukianykhin, Vira Shendryk, Sergii Shendryk, Reza Malekian
- V 09** *DEVELOPING E-MAIL CLASSIFICATION MODEL USING SENTIMENT ANALYSIS TO IMPROVE CUSTOMER SUPPORT*
Emina Milanović Balić
- V 10** *STATISTICAL MODELING OF RANSOMWARE ATTACKS TRENDS*
Milica Tufegdžić, Aleksandar Mišković, Predrag Dašić, Vladimir Nedić
- V 11** *INTEGRATED IT SYSTEMS FOR THE MANAGEMENT OF ACTIVITIES RELATED TO BORDER CONTROL AT THE SCHENGEN SPACE*
Petrică Tertoreanu, Aurel Mihail Țițu, Adrian Bogorin-Predescu, Vasile Gusan, Daniel Bâlc, Alina Bianca Pop
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- V 12** *THE IMPACT OF SMES INTEGRATION ON THE POWER GRID: CURRENT TOPOLOGIES AND NONLINEAR CONTROL STRATEGIES*
Mohamed Khaleel, Ozan Gulbudak, Sadoon K. Ayed, Mustafa A.S. Mustafa, Hasan Shakir Majdi, Laith Jafer Habeeb, Monaem Elmnifi
- V 13** *PDCA CYCLE AS THE FOUNDATION OF INTEGRATED MANAGEMENT SYSTEMS WITH AN EMPHASIS ON THE ENERGY MANAGEMENT SYSTEM*
Senada Pobrić, Merima Gadara, Mersida Manjgo
- V 14** *COMPARATIVE ANALYSIS OF DIFFERENT SOLAR ASSISTED DESICCANT COOLING SYSTEMS*
Haris Lulić, Sadjit Metović, Almira Softić, Merima Gadara
- V 15** *FRACTAL DIMENSION MEASUREMENT UNCERTAINTY*
Volodymyr Tonkonogyi, Maryna Holofieieva, Predrag Dašič, Sergii Klimov, Oleksii Buriachenko
- V 16** *MOBILE APPLICATION MDATING*
Suad Sućeska

Session/Sekcija VI: 16:00 - 19:00 h

Moderators: Sadko Mandžuka, Osman Lindov, Maria Curcio

Secretary: Mirzet Sarajlić

- VI 01** *INTELLIGENT TRAFFIC SAFETY MANAGEMENT ON A SECTION OF A MULTI-LANE MOTORWAY*
Sadko Mandžuka, Krešimir Vidović, Goran Kos, Luka Dedić
- VI 02** *A SYSTEMATIC LITERATURE REVIEW OF THE URBAN AIR MOBILITY SYSTEMS THAT ARE REVOLUTIONIZING THE URBAN TRANSPORT*
Carlos Pérez Carrera, Ömer Ekim Genel, Maria Curcio, Carmine Maria Pappalardo, Domenico Guida
- VI 03** *USING SMART SOLUTIONS FOR CREATING THE MODEL OF URBAN SUSTAINABLE MOBILITY*
Arnela Mujić, Edin Gadžo, Osman Lindov
- VI 04** *GLOBAL ELECTRIC CAR MARKET*
Branislav Dudic
- VI 05** *ANALYSIS OF OPPORTUNITIES OF SOFTWARE FOR OPTIMIZATION OF TRANSPORT ROUTES*
Maida Eljazović, Drago Ezgeta, Nedim Kamenjašević, Mirzet Sarajlić
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- VI 06** *THE POSSIBILITY OF IMPLEMENTING THE A-CDM CONCEPT AT SMALLER AIRPORTS UP TO 2 MILLION PASSENGERS*
Damir Džubur, Muharem Šabić, Denis Odić
- VI 07** *ANALYZING THE FACTORS INFLUENCING THE PERFORMANCE OF RAILWAY INFRASTRUCTURE MANAGERS*
Aida Kalem, Nedžad Branković, Nermin Čabrić, Fadila Kiso
- VI 08** *A DEEP LEARNING APPROACH FOR TRAFFIC FLOW PREDICTION IN CITY OF SARAJEVO*
Nedim Kamenjašević, Maida Eljazović, Mirzet Sarajlić
- VI 09** *TECHNOLOGICAL INHERITABILITY OF PARAMETERS OF SURFACE ENGINEERING OF PRODUCTS AFTER VIBRATIONAL-CENTRIFUGAL HARDENING*
Yaroslav Kusyi, Andrii Kuk, Ivan Klymash, Nazarii Kusen, Victor Vriukalo
- VI 10** *TOWARD COMPLETE DIGITALISATION OF POSTAL ITEMS CLEARANCE IN THE REPUBLIC OF CROATIA*
Kljak Tomislav, Binički Marijan, Škorput Pero, Vrkić Domagoj
- VI 11** *AIR TRAFFIC FLOW ANALYSIS OF SARAJEVO FLIGHT INFORMATION REGION*
Lejla Nikšić
- VI 12** *BARRIERS TO SMART MOBILITY IMPLEMENTATION IN URBAN CONTEXT*
Bia Mandžuka, Krešimir Vidović, Pero Škorput
- VI 13** *USING MACHINE LEARNING TO PREDICT ADDITIONAL TAXI-OUT TIME AS A AIRPORT KEY PERFORMANCE INDICATOR IN THE EUROCONTROL ZONE*
Edvin Šimić, Muhamed Begović, Muharem Šabić, Ermin Muharemović
- VI 14** *INTELLIGENT VEHICLE FUNCTIONS IN REDUCING THE UNCERTAINTY OF THE DRIVER'S ENVIRONMENT AND REDUCING RISK*
Drago Ezgeta, Mustafa Mehanović, Samir Čaušević
- VI 15** *AGV-BASED PRODUCTION LINE FOR MORE INTELLIGENT AND FLEXIBLE MANUFACTURING IN THE TEXTILE INDUSTRY*
Marinko Maslarić, Sanja Bojić, Vladimir Todorović, Dejan Mirčetić, Svetlana Nikoličić
- VI 16** *KINEMATIC AND DYNAMIC ANALYSIS OF THE SUSPENSION OF A RACING CAR*
Giampiero Celenta, Marco Claudio De Simone
- VI 17** *DESIGN OF A HELICOPTER LANDING SLED USING DOE TECHNIQUES*
Salvio Veneziano, Marco Claudio De Simone
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Saturday/Subota, 22 June 2024

Session/Sekcija VII: 09:00 - 11:30 h

Moderators: Amra Bratovčić, Vildana Alibabić, Aida Šapčanin

Secretary: Amina Radončić

- VII 01** DEVELOPMENT OF NEW SENSORS FOR USE IN SMART CLOTHING
Amra Bratovcic, Isak Karabegovic
- VII 02** RIVERINE BIODIVERSITY: THREATS AND CHALLENGES OF CONSERVATION ON THE EXAMPLE OF THE UNA RIVER
Vildana Alibabić, Amarildo Mulić, Haris Hadžihajdarević
- VII 03** ANTIOXIDATIVE ACTIVITY OF SELECTED BOSNIAN MUSHROOMS
Aida Šapčanin, Ekrem Pehlić, Belma Pehlivanović-Kelle, Gordan Jančan
- VII 04** CHEMICAL CHARACTERIZATION AND POTENTIAL HEALTH BENEFITS OF WILD MUSHROOMS FROM EASTERN BOSNIA
Aida Šapčanin, Ekrem Pehlić, Gordan Jančan, Alija Uzunović
- VII 05** ANTHROPOGENIC IMPACT ON ORGANIC MATTER POLLUTION OF THE BREGAVA RIVER
Dalila Ivanković Memić, Almir Šestan, Aldina Kesić, Aida Crnkić
- VII 06** ENVIRONMENTAL FLOW – OSANICA RIVER
Mirza Mujčić, Emina Hadžić
- VII 07** MONTE CARLO SIMULATION IN HEALTH RISK ASSESSMENT OF SULFUR DIOXIDE EXPOSURE – A PIVOTAL FACTOR FOR FUTURE AIR QUALITY REGULATION
Maida Šljivić Husejnović, Alija Uzunović, Medina Husanović, Emira Mlivo
- VII 08** HARMONIZING NEUROTHERAPEUTICS -THE UNION OF NON-INVASIVE BRAIN STIMULATION, EEG, AND ARTIFICIAL INTELLIGENCE
Amina Radončić
- VII 09** CARBON FIBER FOR STRUCTURAL PURPOSES BASED ON AROMATIC POLYAMIDE PHENYLONE C-2
Olga Chihvintseva, Iryna Rula, Yulia Boyko, Dragoljub Mirjanić
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- VII 10** *MAGNETICALLY ASSISTED ELECTROCOAGULATION COMBINED WITH ZEOLITE: OPPORTUNITIES AND CHALLENGES IN COMPOST WASTEWATER TREATMENT*
Nediljka Vukojević Medvidović, Ladislav Vrsalović, Sandra Svilović, Senka Gudić, Silvia Bućma
- VII 11** *THE QUANTUM-CHEMICAL ASPECTS OF STRUCTURING FOR SOME ARAMIDE-TYPE POLYMER SYSTEMS WITH HETARYL FRAGMENTS*
Andrey Tokar, Olga Chihvintseva, Dragoljub Mirjanić
- VII 12** *AN INTEGRATED HEALTH RISK ASSESSMENT APPROACH TO THE STUDY OF CARBONATED WATER SPRING FROM TUZLA AREA, BOSNIA AND HERZEGOVINA*
Maida Šljivić Husejnović, Almedina Palavrić, Azra Suljić, Emira Mlivo
- VII 13** *INCREASING THE PRODUCTIVITY OF FIBER COATING LINE IN CABLE PRODUCTION BY ELIMINATING WASTE IN MATERIAL FLOW USING DMAIC LEAN SIX SIGMA TOOLS AND MINITAB APPLICATION*
Ismar Alagić
- VII 14** *EXAMPLE OF HYPOTHESIS TESTING THROUGH MINITAB APPLICATION IN THEORY OF EXPERIMENT MODELLING FOR LEAN SIX SIGMA PROJECT OF INDUSTRIAL PURPOSE*
Ismar Alagić
- VII 15** *THE APPLICATION OF DILO (A DAY IN THE LIFE OF) ANALYSIS METHOD INTO LEAN KAIZEN PROGRAMME IN WORKING CONDITIONS OF MANUFACTURING COMPANY*
Ismar Alagić
- VII 16** *ON THE DYNAMICS OF RATIONAL DIFFERENCE EQUATION WITH NONLINEAR TERMS*
Jasmin Bektešević, Vahidin Hadžiabdić, Midhat Mehuljić, Haris Lulić, Naida Mujić
- VII 17** *DYNAMICS OF A CERTAIN DISCRETE COMPETITIVE MODEL*
Vahidin Hadžiabdić, Midhat Mehuljić, Jasmin Bektešević, Naida Mujić
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Session/Sekcija VIII: 09:00 - 11:30 h

Moderators: Munira Šestić, Fuad Čatović, Ahmed El Sayed

Secretary: Marko Čećez

- VIII 01** RESEARCH ON THE USE OF TUFF AND SIMILAR INORGANIC MATERIALS IN WILDFIRE FIGHTING
Mario Krzyk, Darko Drev
- VIII 02** SEISMIC ACTIONS ON BUILDINGS ACCORDING TO THE NATIONAL REGULATIONS AND EUROCODE 8 FOR BOSNIA AND HERZEGOVINA
Faruk Avdic, Sanin Džidic, Emir Hodzic, Amir Causevic
- VIII 03** COMPARISON OF WIND ACTIONS ACCORDING TO JUS STANDARDS AND BAS EN 1991-1-4 IN BOSNIA AND HERCEGOVINA
Emir Hodžić, Sanin Džidić
- VIII 04** MORTARS WITH MARBLE POWDER AS PARTIAL REPLACEMENT FOR CEMENT
Armina Breščić, Marko Čećez, Merima Šahinagić – Isović, Fuad Čatović
- VIII 05** FIRE SPALLING OF CONCRETE
Irfan Bidžević, Sanin Džidić
- VIII 06** PRESERVATION OF CULTURAL HERITAGE ARCHITECTURE BY 3D PRINTING AND REALISTIC 3D MODELS
Nedim Tuno, Admir Mulahusić, Jusuf Topoljak, Marko Savić
- VIII 07** ANALYSIS OF URBAN LAYOUT AND ARCHITECTURAL CONFIGURATION OF PRESCHOOL FACILITIES BUILT UNTIL 1990: A CASE STUDY IN SARAJEVO
Nerma Smajlović Orman, Adnan Novalić, Maja Popovac, Ahmed El Sayed
- VIII 08** A REVIEW ON GENERAL PRINCIPLES AND REGULATIONS OF NEW ADDITIONS IN THE CASE OF ARCHITECTURAL HERITAGE PROTECTED BUILDINGS
Yousef Zaarir, Adnan Novalic, Ahmed El Sayed
- VIII 09** THE RELATIVE VALUES OF A MOISTURE PERCENTAGE IN BUILDING ENVELOPES: MOISTURE'S SPOTS WITH A MOISTURE METER
Jovana Jovanović, Ivan Stevović
- VIII 10** HOW WELL DOES BOSNIA AND HERZEGOVINA FOLLOWS THE REGULATIONS FOR PLANNING HYDROPOWER PLANTS IN RELATION TO THE EU AND ITS REGION?
Mirela Idrizović, Ahmed El Sayed
-

- VIII 11** APPLICATION OF NEW TECHNOLOGIES IN SOCIAL MEDIA ANALYTICS: ENHANCING USER ENGAGEMENT AT GLOBAL UNIVERSITIES
Mersid Poturak, Engin Obucic, Dino Keco, Ensar Mekic
- VIII 12** DIGITAL TECHNOLOGIES IN THE BIH BANKING INDUSTRY – STATE AND PERSPECTIVE
Adem Abdić, Adnan Rovčanin, Ademir Abdić, Fahir Kanlić
- VIII 13** THE POTENTIAL OF THE GREEN ECONOMY AS A MEANS OF FINANCIAL AND PROMOTION GREEN INNOVATION. ALBANIA'S PREDICAMENT
Adriana Xhuveli1, Aelita Mani
- VIII 14** INVESTMENT DECISION MAKING USING FUZZY LOGIC AND AHP
Lucas Matheus Ribeiro, Selma Oliveira
- VIII 15** INDUSTRY 4.0 WITHIN POSTGRADUATE BUSINESS EDUCATION IN BOSNIA AND HERZEGOVINA: OVERVIEW AND RECOMMENDATIONS
Munira Šestić, Mirha Bičo Ćar, Sabina Đonlagić Alibegović, Dženan Kulović
- VIII 16** BIG DATA ANALYTICS IN GOVERNMENT ORGANIZATIONS IN AN EMERGING ECONOMY
Giulliano Delgado, Selma Regina M Oliveira
- VIII 17** SUSTAINABLE PEACEBUILDING AND RESPONSIBLE USE OF TECHNOLOGY AS MEANS AND CONSEQUENCES OF ARMED CONFLICTS IN INTERNATIONAL HUMANITARIAN LAW
Pjereta Agalliu

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

Moderators: *Mirha Bičo Ćar, Elvir Šahić, Branislav Dudić*

Secretary: *Selma Hodžić*

- IX 01** INDUSTRY 4.0 IN MICRO, SMALL AND MEDIUM SIZED ENTERPRISES OF THE SARAJEVO CANTON
Mirha Bičo Ćar, Isak Karabegović, Munira Šestić, Elvir Šahić, Selma Hodžić, Savo Stupar
- IX 02** SOCIAL MEDIA AND MARKETING WORLDWIDE
Branislav Dudić, Alexandra Mittelman, Jaroslav Vojtechovský
- IX 03** HOW IS THE USE OF ICT SHAPING OUR INTENDED EFFORT FOR LEARNING?
Zrinka Fiser
-

- IX 04** CONTEMPORARY MIGRATIONS AND DEVELOPMENT DYNAMICS
Marija Orlandic, Marija Radunovic, Ivana Katnic
- IX 05** USING THE MAXIMUM ENTROPY METHOD FOR EFFECTIVE PROJECT MANAGEMENT
Volodymyr Litvinov, Liubov Bovnegra, Andrey Pavlyshko, Alla Toropenko, Yuliia Babych
- IX 06** EFFECTS OF WORK DIGITALIZATION AND HYBRIDIZATION WITHIN THE TAX SYSTEM OF BOSNIA AND HERZEGOVINA
Elvir Čizmić, Elvir Karajbić, Đevad Šašić, Rifet Đogić
- IX 07** CONTEMPORARY MANAGEMENT TECHNIQUES IN THE FUNCTION OF WORK IMPROVEMENT IN PRIMARY SCHOOLS OF CANTON SARAJEVO
Elvir Čizmić, Dženita Čehajić-Kulo, Zijada Rahimić, Munira Šestić
- IX 08** ROOTS OF THE NEW DEVELOPMENT TRENDS IN EUROPE
Marija Radunovic, Marija Orlandic, Ivana Katnic
- IX 09** COMPETENCIES FOR THE 21ST CENTURY: IS EDUCATION KEEPING UP WITH INDUSTRY 4.0?
Zrinka Šimunović, Višnja Vekić-Kljaić
- IX 10** HOMO DEUS: TECHNOSKEPTICISM/TECHNO-OPTIMISM - SLIPPING INTO THE TECHNOSPHERE
Abdel Alibegović, Dina Radeljaš, Omar Tahirović, Alen Arnautović
- IX 11** TECHNOLOGY AND TEMPORALITY - ACCELERATED HISTORY OF THE WORLD
Halima Sofradžija, Abdel Alibegović, Amina Hodžić, Miroslav Pisarević
- IX 12** ECONOMIC POWER: SECURITY, MILITARY AND POLITICAL RESOURCE
Ivan Jovetić, Ivana Katnic
- IX 13** B2B E-COMMERCE IN EUROPE
Branislav Dudić, Velibor Spalević
- IX 14** ANALYTICAL REVIEW OF THE CURRENT STATE OF THE RUSSIAN ECONOMY AND ITS VARIOUS INDUSTRIES
Irina Somina, Maxim Kondakov
- IX 15** USE OF ARTIFICIAL INTELLIGENCE IN THE FORMATION OF THE MARKETING STRATEGY OF THE ENTERPRISE
Chukurna Olena, Tardaskina Tetiana, Alkhimova Violeta, Kofman Viktoria, Pankovets Leonid
- IX 16** MAJOR CHALLENGES IN THE CONSTRUCTION INDUSTRY
Ivana Domljan, Vjekoslav Domljan
- IX 17** EFFECTS OF BINARY SIMILARITY METRICS IN RECOMMENDER SYSTEMS FOR JESTER JOKES DATASET
Edip Senyurek, Jasmin Kevric
-

10th International Conference "New Technologies NT-2024"
10. Internacionalna konferencija „Nove tehnologije NT-2024“

DINNER FOR PARTICIPANTS „NT - 2024“
ZAJEDNIČKA VEČERA UČESNIKA „NT - 2024“

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Friday/Petak, 21 June 2024 in 20:00 h

Dinner for participants
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Saturday/Subota, 22 June 2024 in 12:00 h

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