



**XIII INTERNATIONAL CONFERENCE ON SOCIAL AND  
TECHNOLOGICAL DEVELOPMENT – STED 2024**

**CONFERENCE PROGRAM**

**XIII MEĐUNARODNA KONFERENCIJA O DRUŠTVENOM I  
TEHNOLOŠKOM RAZVOJU – STED 2024**

**PROGRAM KONFERENCIJE**

**Trebinje, June, 06-09, 2024**  
Trebinje, 06-09. juni 2024. godine



## Co-organizers:



Univerza v Mariboru

Fakulteta za logistiko



**VELEUČILIŠTE VIMAL**  
University of Applied Sciences



**VUB**  
VISOKA ŠKOLA ZA USLUŽNI BIZNIS

**XIII INTERNATIONAL CONFERENCE OF SOCIAL AND TECHNOLOGICAL DEVELOPMENT**  
**XIII MEĐUNARODNA KONFERENCIJA O DRUŠTVENOM I TEHNOLOŠKOM RAZVOJU**

**Trebinje, June, 06-09, 2024, Republic of Srpska, Bosnia and Herzegovina**

XIII INTERNATIONAL CONFERENCE OF SOCIAL AND TECHNOLOGICAL DEVELOPMENT  
XIII MEĐUNARODNA KONFERENCIJA O DRUŠTVENOM I TEHNOLOŠKOM RAZVOJU

# XIII INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT

## *CONFERENCE PROGRAM*

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*Dejan Kojić, PhD*

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**Trebinje, June, 06-09, 2024, Republic of Srpska, Bosnia and Herzegovina**

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**XIII INTERNATIONAL CONFERENCE OF SOCIAL AND TECHNOLOGICAL DEVELOPMENT**  
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**Trebinje, June, 06-09, 2024, Republic of Srpska, Bosnia and Herzegovina**

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**NOTE:**

*The authors have full responsibility for the originality and content of their own papers.*

**XIII INTERNATIONAL CONFERENCE OF SOCIAL AND TECHNOLOGICAL DEVELOPMENT**  
**XIII MEĐUNARODNA KONFERENCIJA O DRUŠTVENOM I TEHNOLOŠKOM RAZVOJU**

**Trebinje, June, 06-09, 2024, Republic of Srpska, Bosnia and Herzegovina**

## **XIII INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT**

### ***GENERAL CONFERENCE PROGRAM***

**THURSDAY, JUNE 06<sup>th</sup>**

**ČETVRTAK – 06. JUNI**

**12<sup>00</sup> – 18<sup>00</sup> Registration of participants (Hotel „Leotar“ – in the lobby)**  
*Registracija učesnika (Hotel „Leotar“ – u holu)*

**18<sup>00</sup> – 18<sup>30</sup> OPENING CEREMONY (Conference Hall)**  
*OTVARANJE KONFERENCIJE (sala za konferencije)*

**18<sup>30</sup> - 20<sup>00</sup> PLENARY LECTURES (Conference Hall)**  
*PLENARNA PREDAVANJA (sala za konferencije)*

**20<sup>00</sup> COCKTAIL - Hotel „Leotar“ (Terrace of the Hotel Leotar)**  
*KOKTEL - Hotel „Leotar“ (Terasa hotela Leotar)*  
**Pop-Rock Band „Crop Circles“**  
*Pop-Rock Bend „Krugovi u žitu*

**FRIDAY, JUNE 07<sup>th</sup>**

**PETAK – 07. JUNI**

**08<sup>00</sup> – 18<sup>00</sup> Registration of participants (Hotel „Leotar“ – in the lobby)**  
*Registracija učesnika (Hotel „Leotar“ – u holu)*

**09<sup>30</sup> - 11<sup>00</sup> PLENARY LECTURES (Conference Hall)**  
*PLENARNA PREDAVANJA (sala za konferencije)*

**11<sup>00</sup> – 11<sup>25</sup> COFFEE BREAK**  
*KAFE PAUZA*

**11<sup>30</sup> – 14<sup>00</sup> PARALLEL SESSION**  
*PARALELNE SESIJE*

**16<sup>00</sup>– 19<sup>00</sup>**    **PARALLEL SESSION**  
**PARALELNE SESIJE**

**20<sup>00</sup>**            **GALA DINNER, Hotel „Leotar“ (Terrace of the Hotel Leotar)**  
**SVEČANA VEČERA, Hotel „Leotar“ (Terasa hotela Leotar)**  
**Ambasada Bend**  
**Ambasada Bend**

**SATURDAY, JUN 08<sup>th</sup>**  
**SUBOTA – 08. JUNI**

**09<sup>30</sup>– 10<sup>15</sup>**    **POSTER SECTION (Terrace of Hotel Leotar)**  
**POSTER SEKCIJA (Terasa hotela Leotar)**

**10<sup>15</sup>– 10<sup>30</sup>**    **COFFEE BREAK**  
**KAFE PAUZA**

**10<sup>30</sup>- 11<sup>15</sup>**    **PLENARY LECTURE (Conference Hall)**  
**PLENARNA PREDAVANJE (sala za konferencije)**

**11<sup>20</sup>– 14<sup>00</sup>**    **PARALLEL SESSION**  
**PARALELNE SESIJE**

**14<sup>10</sup>– 14<sup>40</sup>**    **AWARDS AND CLOSING CEREMONY (Conference Hall)**  
**DODJELA NAGRADA I ZATVARANJE KONFERENCIJE (sala za konferencije)**

**15<sup>20</sup>– 19<sup>00</sup>**    **Touristic tour of Trebinje (Monastery „Tvrdoš“; The Church - Hercegovачka Gračanica with a beautiful view of the city of Trebinje; Anđelić Winery - wine tasting with prosciutto and cheese).**  
**Turistički obilazak Trebinja (Manastir „Tvrdoš“; Hercegovачka Gračanica sa pogledom na grad Trebinje; Vinarija Anđelić – degustacija nekoliko vrsta vina uz pršut i sir).**

**XIII INTERNATIONAL CONFERENCE ON SOCIAL AND  
TECHNOLOGICAL DEVELOPMENT**

***FULL CONFERENCE PROGRAM***

***THURSDAY, JUNE 06<sup>th</sup>***  
***ČETVRTAK – 06. JUNI***

***18<sup>00</sup> – 18<sup>30</sup> OPENING CEREMONY (Conference Hall)***  
***OTVARANJE KONFERENCIJE (sala za konferencije)***

**PLENARY LECTURES (Conference Hall)**  
**PLENARNA PREDAVANJA (sala za konferencije)**

***Chairs of the Session: Milan Vraneš, Simonida Vilić, Nikša Grgurević***

***18<sup>30</sup>- 19<sup>15</sup> Marija Blagojević - University of Kragujevac, Faculty of Technical Sciences, Čačak, Serbia***

**APPLICATION OF ARTIFICIAL NEURAL NETWORKS ACROSS  
VARIOUS DOMAINS OF CREATIVITY: A RESEARCH OVERVIEW**

***19<sup>15</sup>- 20<sup>00</sup> László Erdey - University of Debrecin, Faculty of Economics and Business, Debrecin, Hungary***

**RECENT CHANGES IN THE GEOGRAPHY OF GLOBAL MERCHANDISE  
TRADE – GEOPOLITICAL AND SUSTAINABILITY ISSUES**

***20<sup>00</sup> COCKTAIL - Hotel „Leotar“ (Terrace of the Hotel Leotar)***

***KOKTEL - Hotel „Leotar“ (Terasa hotela Leotar)***

***Pop-Rock Band „Crop Circles“***

***Pop-Rock Bend „Krugovi u žitu“***

**FRIDAY, JUNE 07<sup>th</sup>**

**PETAK – 07. JUNI**

**08<sup>00</sup> – 18<sup>00</sup>**     **Registration of participants (Hotel „Leotar“ – in the lobby)**  
*Registracija učesnika (Hotel „Leotar“ – u holu)*

**PLENARY LECTURES (Conference Hall)**  
**PLENARNA PREDAVANJA (sala za konferencije)**

***Chairs of the Session: Tamara Erceg, Nikša Grgurević, Aleksandra Milošević***

**10<sup>00</sup> - 10<sup>45</sup>** ***Biljana Šćepanović - University of Montenegro, Faculty of Civil Engineering, Podgorica, Montenegro***

**STUDYING OF “PATCH LOADING” AT THE UNIVERSITY OF MONTENEGRO**

**10<sup>45</sup> - 11<sup>30</sup>** ***Vlade Simović, Draško Gajić – University of Banja Luka, Faculty of Political Sciences, Banja Luka, Republic of Srpska, Bosnia and Herzegovina***

**BOSNIA AND HERZEGOVINA IN THE WORLD MIGRANT CRISIS: POLITICAL AND SOCIAL ASPECTS**

**11<sup>30</sup> – 11<sup>55</sup>** ***COFFEE BREAK***  
***KAFE PAUZA***

**ORAL PRESENTATIONS 1 (Conference Hall)**  
**USMENA IZLAGANJA 1 (sala za konferencije)**

**Chairs of the Session: Snežana Papović, Jovana Panić, Teodora Teona Borović**

- 12<sup>00</sup>**     *Miroslav Vukičević, Zdravko Ikica, Boris Hrnić, Vladan Vuković*  
**MODELING A PURIFICATION SYSTEM FOR EFFICIENT REMOVAL OF ABRASIVE IMPURITIES**
- 12<sup>20</sup>**     *Veljko Vuković, Zoran Stjepanović, Halid Žigić, Novak Damjanović*  
**DIAGNOSTIC AND TESTING OF WAGON AXLES (AXLE ASSEMBLIES), IN ORDER TO DETERMINE BOUNDARY CONDITIONS FOR WEAR**
- 12<sup>40</sup>**     *Miroslav Vukičević, Balša Drašković, Petar Mustur*  
**ANALYSIS OF THE MAIN ADVANTAGES OF USING GASES OR OTHER LOW FLASHPOINT FUELS FOR SHIP PROPULSION**
- 13<sup>00</sup>**     *Miroslav Vukičević, Zdravko Ikica, Boris Hrnić, Vladan Vuković*  
**ANALYSIS OF MARINE FUEL OIL PURIFIER EFFICIENCY, CHEMICAL ELEMENTS AND COMPOUNDS FOUND IN THEM**
- 13<sup>20</sup>**     *Miloš S. Mošić, Sara V. Ristić, Marija M. Petković Benazzouz, Stefan Lekić, Katarina M. Miletić*  
**ADVANCING PLANT METABOLIZAM ANALYSIS: A REAL – TIME OPTICAL APPROACH**
- 13<sup>40</sup>**     *Hristina Delibašić Marković, Violeta Petrović, C. Molpeceres, Ivan Petrović*  
**QUANTITATIVE INSIGHTS INTO PLASMA GENERATION IN SKIN TISSUES BY NANOSECOND LASER PULSES: A NUMERICAL STUDY**
- 14<sup>00</sup>**     *Vesna Simikić*  
**APPLICATION OF GDPR RULES IN MEDICAL INFORMATION SYSTEMS**
- 14<sup>20</sup>**     *Ivana Vasiljević, Aleksandra Bobić, Milan Miščević, Miloš Obradović, Anica Draganić, Marija Silađi, Nnenad Kuzmanović, Ratko Obradović - ONLINE*  
**LEARNING WITH DIGITIZED CULTURAL HERITAGE - A VIRTUAL JOURNEY THROUGH NOVI SAD**
- 14<sup>40</sup>**     *Alen Kamiš, Aleksandar Zakić, Saša Kukolj, Nemanja Deretić- ONLINE*  
**WAVELET TRANSFORMATION WITH EXAMPLES**

**ORAL PRESENTATIONS 2 (Conference Hall)**

*USMENA IZLAGANJA 2 (sala za konferencije)*

***Chairs of the Session: Danijela Jokanović, Simonida Vilić, Ljubica Janjetović***

**16<sup>00</sup>** *Zehida Binakaj, Svetlana Stojkov, Tanja Stevanović- Pavlović, Hatidža Karić, Amela Škapur, Enisa Halilović, Emina Suljagić*

**NEEDS FOR EDUCATIONAL REFORM IN PHARMACY**

**16<sup>20</sup>** *Elek Bartha*

**RELIGIOUS TOURISM IN UNIVERSITY EDUCATION PROGRAMS IN HUNGARY**

**16<sup>40</sup>** *Darjana Sredić, Snežana Samardžić*

**THE RELATIONSHIP OF SCRIPT PROHIBITIONS AND PATTERNS OF AFFECTIVE ATTACHMENT IN HEALTHY MEN**

**17<sup>00</sup>** *Éva Judit Szalánczi-Bartha, Zoltán Szalánczi*

**MAINTAINING MENTAL HEALTH THROUGH REGULAR EXERCISE**

**17<sup>20</sup>** *Mirela Fazlić, Almir Pustahija*

**SUICIDE - A TRAGIC DIMENSION TIME, SPACE AND SOCIETY**

**17<sup>40</sup>** *Sandra Đukanović - ONLINE*

**RTRS AND BNRTV - MASS MEDIA THAT SHAPE REALITY OR INFORM THE PUBLIC**

**18<sup>00</sup>** *Zoltán Szalánczi, Éva Judit Szalánczi-Bartha*

**PARENTAL MOTIVATIONS RELATED TO YOUTH SPORTS**

**18<sup>20</sup>** *Sandra Đukanović - ONLINE*

**THE ROLE OF THE MASS MEDIA IN CREATING THE POLITICAL ATTITUDE OF THE POPULATION**

**ORAL PRESENTATIONS 3 (Hall 2)**  
**USMENA IZLAGANJA 3 (sala 2)**

*Chairs of the Session: Dragana Gašević, Marija Vranješ, Dragana Tomašević*

- 12<sup>00</sup>**      *Mónika Pentz, Tibor Gonda*  
**THE DEVELOPMENT SITUATION AND MANAGEMENT OF TOURIST THEMATIC ROUTS IN HUNGARY AND GERMANY**
- 12<sup>20</sup>**      *Simonida Vilić, Tatjana Dujaković*  
**RESEARCH OF THE BEHAVIOR OF ECOLOGICAL CONSUMERS IN THE BUYING PROCESS**
- 12<sup>40</sup>**      *Milica Stanković, Marko Slavković*  
**THE SIGNIFICANCE OF TIME MANAGEMENT SKILLS IN HEALTHCARE ORGANIZATIONS: PERCEPTIONS OF HEALTHCARE WORKERS**
- 13<sup>00</sup>**      *Marko Milošević, Marko Milić, Ognjen Bakmaz*  
**IMPORTANCE OF FINANCIAL ANALYSIS IN MODERN BUSINESS CONDITIONS**
- 13<sup>20</sup>**      *Nikša Grgurević*  
**THE ROLE OF GENERATION Z IN CREATING NEW BUSINESS MODELS**
- 13<sup>40</sup>**      *Vučelja Lekić, Nada Damljanović, Mladen Janjić*  
**SIMILARITY OF BI-VARIANT TIME SERIES**
- 14<sup>00</sup>**      *Žarko Rosić, Igor Šabić*  
**MEASURING THE EFFICIENCY OF CEREAL PRODUCTION OF EUROPEAN COUNTRIES THROUGH DATA DISCLOSURE ANALYSIS**
- 14<sup>20</sup>**      *Rami Hijazine - ONLINE*  
**OIL PRICES AND HEADLINE AND CORE INFLATION DYNAMICS IN SAUDI ARABIA**
- 14<sup>40</sup>**      *Ayman Sadik Al Najjar - ONLINE*  
**LEADERSHIP IN STARTUPS: PIONEERING PATHS TO SUCCESS**

**ORAL PRESENTATIONS 4 (Hall 2)**  
**USMENA IZLAGANJA 4 (sala 2)**

*Chairs of the Session: Igor Šabić, Nada Banović, Marina Pešić*

- 16<sup>00</sup>** *Tatjana Mamula Nikolić, Svetlana Kralj, Mirjana Milovanović - ONLINE*  
**BLUE OCEAN STRATEGY & SUSTAINABLE GROWTH: HOW TO PLAY AND WIN**
- 16<sup>20</sup>** *Vučelja Lekić, Mladen Janjić, Nada Damljanović*  
**METHODOLOGY FOR EVALUATION OF SUCCESS OF PRODUCT MARKETING**
- 16<sup>40</sup>** *Aleksandra Milošević*  
**THE INSTITUTE OF NECESSARY DEFENSE AS STIPULATED BY THE CRIMINAL CODE OF THE REPUBLIC OF SERBIA IN THE CONTEXT OF PROTECTING CONSTITUTIONAL RIGHTS AND FREEDOMS**
- 17<sup>20</sup>** *Suzana Malešić, Duška Zorić, Amir Hadžimujić - ONLINE*  
**CYBERCRIME**
- 17<sup>40</sup>** *Darko Dimovski*  
**ECONOMIC CRIME**
- 18<sup>00</sup>** *Aleksandra Milošević*  
**THE CRIME OF GENOCIDE ACCORDING TO SOURCES OF INTERNATIONAL CRIMINAL LAW, WITH A SPECIAL EMPHASIS ON SELECTED JUDGMENTS OF INTERNATIONAL COURTS**
- 18<sup>20</sup>** *Suzana Malešić, Duška Zorić - ONLINE*  
**THE ABUSE OF OFFICIAL POSITION OR AUTHORITY AS A FORM OF CORRUPTION**
- 18<sup>40</sup>** *Mile Matijević*  
**CRIMINOGENICITY LABOR AND FINANCIAL BUSINESS IN CONNECTION WITH EMPLOYEE RIGHTS**

**SATURDAY, JUN 08<sup>th</sup>**  
**SUBOTA – 08. JUNI**

**09<sup>30</sup> – 10<sup>15</sup> POSTER SECTION (Terrace of Hotel Leotar)**  
**POSTER SEKCIJA (Terasa hotela Leotar)**

**10<sup>15</sup> – 10<sup>30</sup> COFFEE BREAK**  
**KAFE PAUZA**

**PLENARY LECTURE (Conference Hall)**  
**PLENARNA PREDAVANJE (sala za konferencije)**

***Chairs of the Session: Milena Marinović Cincović, Milan Vraneš, Božana Odžaković***

**10<sup>30</sup> - 11<sup>15</sup> Tamara Erceg, Olja Šovljanski, Ana Tomić, Biljana Lončar, Miroslav Hadnađev, Milica Aćimović, Vesna Teofilović - University of Novi Sad, Faculty of Technology, Novi Sad, Serbia**

**DESIGN AND CHARACTERIZATION OF ACTIVE BILAYER COATING FOR CHEESE PACKAGING WITH IMPROVED FUNCTIONAL PROPERTIES**

**ORAL PRESENTATIONS 5 (Conference Hall)**  
**USMENA IZLAGANJA 5 (sala za konferencije)**

***Chairs of the Session: Ljubica Janjetović, Sanja Rackov, Nada Banović***

**11<sup>20</sup> Israel Dunmade**  
**DEVELOPMENT OF RENEWABLE ENERGY SYSTEMS IN OGUN STATE, NIGERIA: A HYBRIDIZATION MODEL**

**11<sup>40</sup> Boško Blagojević, Atila Bezdán, Jovana Bezdán**  
**USING MULTI-CRITERIA DECISION ANALYSIS AND GIS FOR DEFINING SPATIAL RISK OF LAND SALINIZATION IN THE VOJVODINA PROVINCE**

**12<sup>00</sup> Vladan Čolić, Marija Mosilović, Enes Sukić - ONLINE**  
**SIMULATION AND MODELING OF MEDICAL SCENARIOS WITH THE APPLICATION OF ARTIFICIAL INTELLIGENCE**

**12<sup>20</sup>** *Milan Mišćević, Aleksandra Bobić, Lazar Velicki, Ratko Obradović, Ivana Vasiljević - ONLINE*

**INNOVATIVE USE OF 3D ANIMATION IN PATIENT EDUCATION ON MINIMAL INVASIVE CARDIOTHORACIC SURGERY**

**12<sup>40</sup>** *Jelena Krstić, Ljubomir Zuber - ONLINE*

**THEORETICAL FRAMEWORKS OF THE INFLUENCE OF SOCIAL MEDIA ON THE ATTITUDES AND BEHAVIOR OF USERS**

**13<sup>00</sup>** *Israel Dunmade, Joshua Osaro*

**SOLUTION TO CIRCULAR ECONOMY PRACTICES' ADOPTION CHALLENGES IN THE NIGERIAN MANUFACTURING SECTOR: A FOCUS ON OTA REGION**

**13<sup>30</sup>** *AWARDS AND CLOSING CEREMONY (Conference Hall)*

*DODJELA NAGRADA I ZATVARANJE KONFERENCIJE (sala za konferencije)*

**15<sup>20</sup> – 19<sup>00</sup>** *Touristic tour of Trebinje (Monastery „Tvrdoš“; The Church - Hercegovska Gračanica with a beautiful view of the city of Trebinje; Anđelić Winery - wine tasting with prosciutto and cheese).*

*Turistički obilazak Trebinja (Manastir „Tvrdoš“; Hercegovska Gračanica sa pogledom na grad Trebinje; Vinarija Anđelić – degustacija 5 vrsta vina uz pršut i sir).*

***„With a glass of wine, one can never be alone“***

***POSTER SECTION***  
***POSTER SEKCIJA***

**ENGINEERING, TECHNOLOGY AND MATERIALS**  
**INŽENJERSTVO, TEHNOLOGIJE I MATERIJALI**

*Chairs of the Session: Marija Blagojević, Adrian Eugen Cioabla, Veljko Vuković*

- TEH1** *Borislav N. Malinović, Olja Petrušić, Sanda Pilipović, Draženko Bjelić, Tijana Đuričić*  
**CHROMIUM (VI) REMOVAL FROM WASTEWATER BY ELECTROCOAGULATION IN A BATCH AND CONTINUOUS MODE**
- TEH2** *Slaviša Jovanović, Vojislav Jovanović, Gordana Marković, Suzana Samaržija-Jovanović, Marija Milenković, Milena Marinović-Cincović*  
**THE INFLUENCE RECYCLED RUBBER ON THE MECHANICAL AND THERMAL PROPERTIES OF ELASTOMERIC COMPOSITES**
- TEH3** *Marija Milenković, Tamara Lazarević-Pašti, Slavica Porobić-Katnić, Vedran Milanković, Tamara Tasić, Milena Marinović-Cincović*  
**REMOVAL OF ACRIDINE RED DYE FROM AQUEOUS SOLUTION USING PHYSICOCHEMICALLY ACTIVATED HYDROCHAR OF SPENT MUSHROOM SUBSTRATE**
- TEH4** *Biljana Vučićević, Dragoslav Mrđa, Valentina Turanjanin, Milica Mladenović, Predrag Škobalj*  
**THE POTENTIAL FOR USING SOYBEAN STRAW IN THE CREATION OF BUILDING MATERIALS**
- TEH5** *Milica Mladenović, Biljana Vučićević, Predrag Škobalj*  
**USING BIOMASS AS A BUILDING MATERIAL TO SHAPE A SUSTAINABLE AND ENVIRONMENTALLY FRIENDLY FUTURE**
- TEH6** *Predrag Škobalj, Valentina Turanjanin, Biljana Vučićević, Dragoslav Mrđa, Milica Mladenović*  
**SUSTAINABILITY ASSESSMENT OF THE ENERGY SYSTEM OPTIONS OF A POWER PLANT THROUGH MULTI-CRITERIA ANALYSIS**
- TEH7** *Sanja Rackov i Branka Pilić*  
**A SUSTAINABLE RECYCLING OF POLYETHENE TEREPHTHALATE BOTTLES BY ELECTROSPINNING**
- TEH8** *Tamara Erceg, Sanja Rackov i Branka Pilić*  
**DEVELOPMENT OF POLYHYDROKSYALKANOATE BASED BLENDS AS GREEN SOLUTIONS FOR DIFFERENT PURPOSES**
- TEH9** *Milan Vraneš, Saša Laloš, Jovana Panić, Snežana Papović, Teona Teodora Borović, Nikolett Cako Bagány, Andrija Vukov, Slobodan Gadžurić, Siniša Bikić*  
**NEXT-GENERATION HYDRAULIC FLUIDS: THE ROLE AND PERSPECTIVES OF IONIC LIQUIDS**

**TEH10** *Andrija Vukov, Milan Vraneš, Jovana Panić, Snežana Papović, Teona Teodora Borović, Nikolett Cako Bagány, Sanja Belić, Slobodan Gadžurić*

**STRATEGIES FOR ENHANCING METFORMIN PALATABILITY WITH ARTIFICIAL SWEETENERS**

**TEH11** *Nenad Stanojević, Jelena Đokić, Dušan Nikezić, Živče Šarkoćević, Uroš Kovačević*

**APPLICATION OF NUCLEAR METHODS TO DETERMINE THE DEGREE OF CONTAMINATION OF THE ŠAR MOUNTAINS AQUATORIUM DOE TO THE USE OF DEPLETED URANIUM AMMUNITION**

**TEH12** *Perica Bošković, Martina Gudelj, Mile Dželalija*

**XRF ANALYSIS OF THE “SEVEN-COLOURED EARTH” SOIL OF MAURITTIUS**

**TEH13** *Miloš S. Mošić, Sara V. Ristić, Marija M. Petković Benazzouz, Katarina M. Miletić*

**SPECTROSCOPIC METHOD FOR DETERMINATION OF THE TWO-DIMENSIONAL PROFILE OF A FLAME IN VIS-NIR WAVELENGTH REGION**

**TEH14** *Miljana Krstić, Dragana Rajković, Ana Veličković, Jelena Avramović, Ana M. Marjanović Jeromela, Ivan J. Stojković, Vlada Veljković*

**A COMPARISON OF CONVENTIONAL AND NOVEL CASTOR OIL RECOVERY METHODS**

**TEH15** *Vesna S. Zlatković, Nada L. Grahovac, Ivana B. Banković Ilić, Petar M. Mitrović, Zoran B. Todorović, Ana M. Marjanović Jeromela, Vlada Veljković*

**EXTRACTION OF RESIDUAL OIL FROM FODDER RADISH SEED PRESS CAKE**

**TEH16** *Aleksandra B. Perović, Ivana T. Karabegović, Miljana S. Krstić, Ana V. Veličković, Jelena M. Avramović, Stojan S. Mančić, Bojana R. Danilović, Vlada B. Veljković*

**THE EFFECT OF DIFFERENT SALTS ON THE CHEMICAL COMPOSITION OF LAVENDER ESSENTIAL OIL**

**TEH17** *Miljana Krstić, Nevenka Bošković Vragolović, Ana Veličković, Svetomir Milojević, Jelena Avramović, Ivan J. Stojković, Vlada Veljković*

**FRACTIONATION OF JUNIPER BERRY ESSENTIAL OILS OBTAINED BY CLASSICAL AND MICROWAVE-ASSISTED HYDRODISTILLATION**

**TEH18** *Božana Odžaković, Vanja Čupina, Slavica Grujić, Staniša Latinović, Zoran Kukrić*

**BIOACTIVITY, NUTRITIVE AND SENSORY QUALITY OF NEW PRODUCT - CORNELIAN CHERRY TOPPING**

**TEH19** *Dragana Plavšić, Ljubiša Šarić, Ana Varga, Ivana Čabarkapa, Jasmina Lazarević, Olja Todorčić, Dragan Psodorov*

**COMPOSITION AND ANTIFUNGAL ACTIVITY OF *Carum carvi* ESSENTIAL OIL**

**TEH20** *Jasmina Lazarević, Ivana Čabarkapa, Slađana Rakita, Jovana Delić, Miloš Županjac, Zorica Tomičić, Tatjana Peulić*

**POTENTIAL UTILIZATION OF THE MEAT OF INVASIVE CRAYFISH FAXONIUS LIMOSUS FROM THE DANUBE RIVER**

**TEH21** *Milan D. Kostić, Biljana S. Đorđević, Marija R. Miladinović, Olivera S. Stamenković*

**THE STATISTICAL ANALYSIS OF THE OIL EXTRACTION FROM GARLIC PENNYCRESS (*THLASPI ALLIACEUM L.*) SEEDS**

**TEH22** *Milan D. Kostić, Biljana S. Đorđević, Marija R. Miladinović, Olivera S. Stamenković*

**EXTRACTION AND CHARACTERIZATION OF GARLIC PENNYCRESS (*THLASPI ALLIACEUM L.*) SEEDS OIL**

**TEH23** *Ana Velemir, Snježana Mandić, Danica Savanović, Jovo Savanović*

**SENSORY PROPERTIES OF FERMENTED SAUSAGES WITH CASINGS TREATED WITH PLANT EXTRACTS**

**TEH24** *Savanović Danica, Velemir Ana, Savanović Jovo, Mandić Snježana, Savić Aleksandar, Kučinar Jovana*

**EXAMINATION OF THE QUALITY OF GOAT CHEESE IN A SACK**

**TEH25** *Tanja Stupar, Davor Stupar*

**STRATEGIES OF CRIME PREVENTION THROUGH ENVIRONMENT DESIGN**

**TEH26** *Tanja Stupar*

**CRIME PREVENTION IN THE CONCEPTUAL DESIGN OF THE ARCHITECTURAL AND URBAN SOLUTION OF THE PATRIARCH PAVLE SQUARE IN BROD**

**TEH27** *Vasko Kokalanov, Verica Toneva Stojmenova, Natasha Stojkovic*

**DESIGNING A NUMERICAL MODEL OF TOOTH FROM CT WITH VOLUMETRIC MESH**

**TEH28** *Aminu Muhammad, Sabah M. Mohammad, Suvindraj Rajamanickam and Ibrahim Garba*

**ENHANCEMENT OF PHOTODETECTION PARAMETERS USING FLUORINE AND SILVER CO-DOPING ZnO**

**TEH29** *Idris Muhammad Chiromawa, Amirruddin Shaari, Razif Razali, Abdullahi Lawal, Abdullahi Mikailu, Muhammad Tajuddeen Garba*

**ELECTRONIC, STRUCTURAL STABILITIES AND OPTICAL PROPERTIES OF  $Ba_2SiO_4$  SPINEL FOR OPTOELECTRONIC DEVICES: A FIRST PRINCIPAL STUDY**

**INFORMATION TECHNOLOGY  
INFORMACIONE TEHNOLOGIJE**

***Chairs of the Session: Marija Blagojević, Adrian Eugen Cioablă, Veljko Vuković***

**IT1** *Dijana Stojić, Saša Ćuković, Vanja Luković, Dejan Vujičić*

**DISPLAY OF SPINAL DEFORMITIES IN AN AR ENVIRONMENT**

**IT2** *Vladimir Milićević, Igor Franc*

**EXPERTISE JUSTIFICATION AND PROPOSAL OF INTRODUCING ARTIFICIAL INTELLIGENCE INTO MEDICATION PROCUREMENT SYSTEMS**

**IT3** *Zoran Panov, Dushan Bikov*

**APPLICATION OF AUDIO RECORDERS FOR REGISTERING SEISMIC SIGNALS FROM INDUCED SEISMICITY PRODUCED BY BLASTING IN OPEN PIT MINES**

**IT4** *Limonka Koceva Lazarova, Natasha Stojkovic, Vasko Kokalanov*

**POSSIBILITIES OF USING ARTIFICIAL INTELLIGENCE TOOLS IN MATHEMATICS EDUCATION**

**IT5** *Dushan Bikov, Limonka Koceva Lazarova, Zoran Panov*

**LEARN MORE ABOUT PARALLEL PROGRAMMING TECHNIQUES BY IMPLEMENTING A HISTOGRAM ON GPU**

**IT6** *Dushan Bikov, Zoran Panov, Risto Popovski*

**DESIGN AND IMPLEMENTATION OF A SEISMIC DATA ACQUISITION PROTOTYPE SYSTEM INTENDED FOR VARIOUS APPLICATIONS**

**IT8** *Mirjana Kocaleva Vitanova, Biljana Zlatanovska, Marija Miteva*

**WORDPRESS – AN ESSENTIAL TOOL FOR DIGITAL MARKETING**

**IT9** *Biljana Zlatanovska, Marija Miteva, Mirjana Kocaleva Vitanova*

**USING CHATGPT IN SOLVING DEFINITE INTEGRALS**

**ECOLOGY**  
**EKOLOGIJA**

*Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević*

- EKOL1** *Dajana Blagojević, Petar Davidović, Jovana Panajotović, Jelica Simeunović*  
**THE IMPACT OF RED LIGHT ON THE BIOMASS PRODUCTION IN SELECTED CYANOBACTERIA STRAINS**
- EKOL2** *Dajana Blagojević, Petar Davidović, Vanja Stanišljević, Anita Konc, Jelica Simeunović*  
**ANTIFUNGAL ACTIVITY OF ARTHROSPIRA (SPIRULINA) STRAINS**
- EKOL3** *Suzana Knežević, Milena Milojević, Maja Došenović Marinković, Ljiljana Tanasić*  
**USE OF SLAUGHTERHOUSE WASTE FOR ENERGY PURPOSES IN THE REPUBLIC OF SERBIA**
- EKOL4** *Ljiljana Tanasić, Suzana Knežević, Milena Milojević, Maja Došenović Marinković, Biljana Delić Vujanović*  
**A SUSTAINABLE APPROACH TO WASTEWATER TREATMENT IN THE PRODUCTION OF MILK AND DAIRY PRODUCTS**
- EKOL5** *Filip Grbović, Snežana Branković, Nevena Petrović*  
**NATURE CONSERVATION CHALLENGES: INVASIVE FLORA OF THE “VLASINA” PROTECTED AREA**
- EKOL6** *Milica Živković*  
**THE FIRST RECORD OF EURYALE FEROX SALISB. IN FRESHWATERS OF EUROPE**
- EKOL7** *Ivan Stojković, Milica Karanac, Vladimir Pavićević*  
**COMPOSTING – TECHNOLOGY OF BIOLOGICAL WASTE TREATMENT**
- EKOL8** *Ivan Stojković, Miljana Krstić, Ana Veličković, Jelena Avramović, Vlada Veljković*  
**LIFE CYCLE ASSEMENT OF BIODIESEL PRODUCTION AND USE**
- EKOL9** *Bojan Damnjanović, Marijana Srećković, Milica Živković, Ana Vasić, Gordana Jovanović, Ljiljana Tanasić*  
**NITRATE CONCENTRATION IN DRINKING WATER IN SCHOOLS FROM RURAL AREAS OF THE MAČVA DISTRICT (SERBIA)**
- EKOL10** *Živković Milica, Andelković Ana, Popović Slađana, Bojan Damnjanović, Branko Miljanović*  
**THE INFLUENCE OF HYDROMORPHOLOGICAL VARIABLES ON THE SPREAD OF INVASIVE ALIEN PLANTS ALONG THE RIVERS IN SERBIA**

**EKOL11** *Svjetlana Zeljković*  
**THE USE OF BIOSTIMULANT IN THE PRODUCTION OF ORNAMENTAL PLANTS**

**EKOL12** *Nevena Vukić, Dejan Kojić, Ljubica Janjetović*  
**ECO DESIGN AS DRIVER OF INNOVATION - CHALLENGES AND TRENDS**

**PSYCHOLOGY**

**PSIHOLOGIJA**

***Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević***

**PSI1** *Danijela Jokanović, Barbara Stanković*  
**PERCEPTION OF FAMILY RELATIONSHIPS AND YOUNG PEOPLE'S ATTITUDES ON GAMBLING**

**PSI2** *Andrea Uzelac, Snežana Samardžić*  
**INFLUENCE OF EDUCATIONAL STYLES OF PARENTS ON AGGRESSIVENESS OF ADOLESCENTS**

**PSI3** *Tanja Todorović*  
**RESULTS OF THE RESEARCH OF THE APPLICATION OF ADDENBROOKE'S REVISED COGNITIVE ASSESSMENT TEST AND A CASE REPORT ON A HEALTHY RESPONDENT AND A RESPONDENT WITH A DIAGNOSIS**

**PSI4** *Sanja Ilić, Elvir Ibeljić*  
**PERSONALITY CHARACTERISTICS AS A PREDICTOR OF ACCIDENTS**

**LAW AND SECURITY SECTION**

**PRAVO I BEZBJEDNOST**

***Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević***

**PR1** *Farah Fazlagić- Gezgel*, *Almir Pustahija*  
**CONTRACT KILLERS PROFILING - CRIMINAL JUSTICE AND CRIMINOLOGY ASPECT**

**ECONOMY AND MANAGEMENT**  
**EKONOMIJA I MENADŽMENT**

*Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević*

- EKON1** *Jasmina Ćurčić, Milan Vesković*  
**THE APPLICATION OF THE ANALYTIC HIERARCHY PROCESS (AHP) METHOD USING EXPERT CHOICE SOFTWARE**
- EKON2** *Marija Vranješ, Dragana Gašević, Dragana Tomašević*  
**EXAMINING AGE DIFFERENCES IN CONSUMER ATTITUDES TOWARD SOCIAL MEDIA INFLUENCERS**
- EKON3** *Dragana Gašević, Marija Vranješ, Dragana Tomašević*  
**INSTAGRAM AND TRIPADVOSOR.COM: COMPARATIVE CONTENT ANALYSIS AND ONLINE REVIEW**
- EKON4** *Jelena Jovović, Mladen Ivić, Željko Grublješić, Miloš Tubić*  
**FINANCING MODELS OF HEALTHCARE INSTITUTIONS FROM THE OBLIGATORY HEALTH INSURANCE IN THE REPUBLIC OF SRPSKA**
- EKON5** *Milovančević Miloš, Srđan Stojičić, Mirjana Miljanović, Nikola Simonović*  
**ANALYSES OF THE MOST INFLUENTIAL UTILISING HOFSTED'S CULTURAL DIMENSIONS FOR PREDICTING CROSS-CULTURAL MANAGEMENT OUTCOMES THROUGH ADAPTIVE NEURO-FUZZY METHOD**
- EKON6** *Milovančević Miloš, Srđan Stojičić, Mirjana Miljanović, Nikola Simonović*  
**ANALYSE THE MOST SIGNIFICANT COMPONENTS FOR FORECASTING THE HERFINDAHL-HIRSCHMAN INDEX USING AN ADAPTIVE NEURO-FUZZY TECHNIQUE**
- EKON7** *Ognjen Bakmaz, Darko Martinov, Dragan Vukasović*  
**MANAGEMENT OF AMORTIZATION CALCULATION ON THE BASIS OF FINANCIAL STATEMENTS IN PROFIT PROJECTION**
- EKON8** *Marko Milić, Slađana Vujičić*  
**THE IMPORTANCE OF ANALYSIS OF FINANCIAL STATEMENTS ON THE EXAMPLE OF THE PODRAVKA COMPANY**
- EKON9** *Mladen Milić, Jelena Lutovac*  
**AN INFLUENCE OF INTERNET MARKETING ON A CONSUMER BEHAVIOUR**
- EKON10** *Nikola Vojvodić, Milja Šteković, Darko Vaselić*  
**THE ROLE OF THE PLANNER IN THE SUPPLY CHAIN**

- EKON11**     *Sladana Lolić*  
**HUMAN POTENTIAL MANAGEMENT AND EMPLOYEE MOTIVATION**
- EKON12**     *Jelena Jovović, Milica Lakić, Darko Vaselić*  
**THE SIGNIFICANCE OF SUPPORT PROGRAMS FOR THE SMALL AND MEDIUM ENTERPRISES SECTOR IN THE REPUBLIKA SRPSKA**
- EKON13**     *Milica Lakić, Jelena Jovović, Ružica Đervida, Zoran Đuričić*  
**COMPARATIVE ANALYSIS OF THE MICROCREDIT SECTOR IN SELECTED COUNTRIES OF THE REGION**
- EKON14**     *Srećko Stanišić*  
**SPECIFICITY OF BUDGETING OF THE STARČEVICA SKI CLUB**
- EKON15**     *Miljenko Strnad, Biljana Rađenović Kozić*  
**POSITION OF THE BRAND IN ON LINE SHOPPING**
- EKON16**     *Miljenko Strnad, Biljana Rađenović Kozić*  
**IMPACT OF THE PANDEMIC CAUSED BY CORONAVIRUS (COVID-19) ON INTERNATIONAL MARKETING AND THE CONSUMER BEHAVIOR IN INTERNET SHOPPING**
- EKON17**     *Milan Resimić*  
**OPEN INNOVATIONS FOR THE IMPROVEMENT OF LEADERSHIP**
- EKON18**     *Milan Resimić*  
**ORGANIZATIONAL MODEL 7S IN THE CONTEXT OF ORTHODOX AND ETHICAL BUSINESS LEADERSHIP**
- EKON19**     *Awe, Isaac Tope*  
**HUMAN CAPITAL DEVELOPMENT, CAPABILITIES AND ECONOMIC GROWTH IN NIGERIA.**
- EKON20**     *Balázs Boga*  
**THE ECONOMIC AND SOCIAL DETERMINANTS OF VACCINE HESITANCY IN ROMANIA DURING THE COVID-19 PANDEMIC**
- EKON21**     *Mary Bosede Olufayo*  
**THE IMPACT OF FISCAL AND MONETARY POLICY ON THE MINING SECTOR OUTPUT IN NIGERIA**
- EKON22**     *Fengchen Gu*  
**APPLICATION OF DEEP REINFORCEMENT LEARNING IN PORTFOLIO MANAGEMENT**

**MEDICAL SCIENCES AND BIOTECHNOLOGY**  
**MEDICINSKE I BIOTEHNOLOŠKE NAUKE**

*Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević*

- MED1**      *Aleksandra A. Rakić, Luka Golubović, Violeta Jevtović, Dušan Dimić*  
**SYNTHESIS AND STRUCTURE OF PYRIDOXAL-S-METHYL-ISO-THIOSEMICARBAZONE-IRON(III) (PLITSC-Fe(III)) COMPLEX**
- MED2**      *Aleksandra A. Rakić, Luka Golubović, Violeta Jevtović, Dušan Dimić*  
**PROTEIN AND DNA BINDING PROPERTIES OF IRON(III)-PYRIDOXAL-S-METHYL-ISO-THIOSEMICARBAZONE (Fe(III)-PLITSC) COMPLEX**
- MED3**      *Milena Milojević, Suzana Knežević, Maja Došenović Marinković, Goran Stanišić*  
**THE SUPPORT TO RURAL AND SUSTAINABLE DEVELOPMENT THROUGH UNCONVENTIONAL LIVESTOCK PRODUCTION**
- MED4**      *Nevena Petrović, Zoran Simić, Marijana Kosanić*  
**ASSESSMENT OF ANTIMICROBIAL AND ANTIOXIDANT ACTIVITY OF THE ACETONIC EXTRACT OF ARMILLARIA GALLICA BASIDIOCARPS AND ANALYSIS OF THE PRESENCE OF METALS**

**EDUCATION**  
**OBRAZOVANJE**

*Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević*

- OBR1**      *Milan Vesković, Vasilija Simović, Olga Dukić, Ana Vulović*  
**MICRO:BIT AS A NEW TECHNOLOGY IN EDUCATION IN SCHOOLS IN SERBIA**
- OBR2**      *Jelena Pažin, Sanja Maglov*  
**AUTHENTIC MATERIALS IN ESP TEACHING AT THE UNIVERSITY OF BANJA LUKA**
- OBR3**      *Mihaela Popa, Ljubica Janjetovic, Adrian Eugen Cioablă*  
**STUDENTS EXPECTATIONS TOWARD UNIVERSITY CAREER FAIRS: A CASE STUDY OF ENGINEERING FACULTY STUDENTS IN HUNEDOARA**
- OBR4**      *Ján Duplák, Darina Dupláková, Maryna Yeromina, Samuel Mikuláško, Róbert Pytel'*  
**POSSIBILITIES OF USING SOFTWARE TOOL IN THE EDUCATIONAL PROCESS IN THE FIELD OF SURFACE FINISHING AND HEAT TREATMENT**

- OBR5**      *Darina Dupláková, Ján Duplák, Dejan Kojic, Enes Sukic, Patrik Sloboda*  
**THE SYNERGY OF DIGITAL TOOLS FOR CREATING AND ASSESSING A WORKING ENVIRONMENT IN THE ERGONOMIC EDUCATIONAL PROCESS**
- OBR6**      *Dragana Aleksić*  
**INNOVATIONS AND TEACHING SYSTEMS IN THE TEACHING OF NATURE AND SOCIETY**
- OBR7**      *Branka Tepić, Mitar Miki Tepić*  
**CHATGPT IN EVERYDAY TEACHING**
- OBR8**      *Branka Tepić, Mitar Miki Tepić*  
**FROM DESK TO TABLET: HOW MODERN TECHNOLOGIES SHAPE STUDENT MOTIVATION**
- OBR9**      *Branka Tepić*  
**GAMIFICATION IN DAILY GERMAN LANGUAGE TEACHING**

**OTHER TOPICS**

**OSTALE TEME**

***Chairs of the Session: Simonida Vilić, Mladen Ivić, Bojan Milićević***

- OT1**      *Hristina Delibašić Marković, Violeta Petrović, Konstantinos Kaleris, Ivan Petrović*  
**ANALYSIS OF PLASMA DYNAMICS IN AIR TRIGGERED BY NANOSECOND LASER PULSES: AN ANALYTICAL AND NUMERICAL APPROACH**
- OT2**      *Saša Ljubojević, Branko Latinović*  
**FREQUENCY OF FOREST FIRES DEPENDING ON ALTITUDE IN THE TERRITORY OF BOSNIA AND HERZEGOVINA**
- OT3**      *Srećko Stanišić*  
**FLUID DYNAMICS**

**XIII INTERNATIONAL CONFERENCE OF SOCIAL AND TECHNOLOGICAL DEVELOPMENT**  
**XIII MEĐUNARODNA KONFERENCIJA O DRUŠTVENOM I TEHNOLOŠKOM RAZVOJU**

**Trebinje, June, 06-09, 2024, Republic of Srpska, Bosnia and Herzegovina**