



## Co-organizers:



TECHNICAL UNIVERSITY OF KOŠICE  
Faculty of Manufacturing Technologies



Univerza v Mariboru

Fakulteta za logistiko



**VUB**  
VISOKA ŠKOLA ZA USLUŽNI BIZNIS

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

# XII INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT

## *CONFERENCE PROGRAM*

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**NOTE:**

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

## XII INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT

### CONFERENCE PROGRAM

**THURSDAY, JUNE 15<sup>nd</sup>**  
**ČETVRTAK – 15. 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>35</sup>** **OPENING CEREMONY (Conference Hall)**  
*OTVARANJE KONFERENCIJE (sala za konferencije)*

**18<sup>40</sup> – 19<sup>55</sup>** **PANEL DISCUSSION (Conference Hall)**  
*PANEL DISKUSIJA (sala za konferencije)*

### **NUTRITION AND HEALTHY LIFE – NEED, LIFESTYLE OR TREND?**

**Moderator:** **Prof. dr Božana Odžaković – Nutrition and nutritional quality of food, Faculty of Technology, University of Banja Luka, Bosnia and Herzegovina.**

**Panelist 1:** **Nemanja Milović – Fitness personality of the year in Serbia, Novi Sad, Serbia.**

**Panelist 2:** **Dr Bojan Stojnić – A common sense nutritionist, Zagreb, Croatia.**

**Panelist 3:** **Merlinda Đešević - Health food manufacturer, Podgorica, Montenegro.**

**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 16<sup>th</sup>**  
**PETAK – 16. 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: Milena Marinović Cincović, Nenad Janković, Nevena Vukić*

**09<sup>30</sup> - 10<sup>10</sup>** *Milan Vraneš - Faculty of Sciences, University of Novi Sad, Serbia*

**APPLICATION OF THIRD GENERATION IONIC LIQUIDS IN PHARMACY: FROM SOLVENTS TO ACTIVE COMPONENTS**

**10<sup>15</sup> - 10<sup>55</sup>** *Ivica Vujčić - Vinca Institute of Nuclear Sciences, University of Belgrade, Serbia*

**RADIATION PROCESSING OF MODERN POLYMERIC MATERIALS AND THE PERSPECTIVE OF INDUSTRIAL AND COMMERCIAL APPLICATIONS**

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

**INVITED LECTURE (Conference Hall)**  
**POZIVNO PREDAVANJE (sala za konferencije)**

*Chairs of the Session: Nevena Vukić, Nenad Janković and Sanja Rackov*

**11<sup>30</sup> – 11<sup>50</sup>** *Dane Branković, Forenzički centar, Banja Luka, Bosnia and Herzegovina*

**WHY IS THE FINGERPRINT OF ILLITERATES PERSONS WHEN VERIFYING DOCUMENTS UNRELIABLE FOR EXPERTISE**

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

*Chairs of the Session: Jovana Panić, Snežana Papović, Jelena Petronijević*

- 12<sup>00</sup>**      *Snežana Joksić, Mladen Radojković, Živče Šakorčević, Saša Milojević, Blaža Stojanović*  
- **ONLINE**  
**STRESS ANALYSIS OF GEAR SHIFT FORK WITH MASS OPTIMIZATION**
- 12<sup>20</sup>**      *Ayhan Erol, Orhan Ocak, Ahmet Yonetken*  
**PHYSICAL AND CHEMICAL OF WASTE VEHICLE TIRES, HOT ASPHALT EFFECT ON PROPERTIES**
- 12<sup>40</sup>**      *Eren Atik, Ahmet Demirer*  
**INVESTIGATION OF STATIC AND DYNAMIC STRENGTH OF AIR SUSPENSION BELLOWS IN HEAVY VEHICLES**
- 13<sup>00</sup>**      *Katarina M. Miletić, Miloš S. Mošić, Sara V. Ristić, Marija M. Petković-Benazzouz*  
**EARLY DETECTION OF PHYTOPHTHORA PLURIVORA PATHOGEN INFECTION IN SWEET CHESTNUT LEAVES USING NONDESTRUCTIVE OPTICAL METHOD**
- 13<sup>20</sup>**      *Ljiljana Suručić, Zvezdana Sandić, Aljoša Stanković, Goran Janjić, Tamara Tadić, Bojana Marković, Antonije Onjia, Aleksandra Nastasović*  
**REDUCTIVE REMOVAL OF HEXAVALENT CHROMIUM IN AQUEOUS SOLUTION BY MAGNETIC AMINO- FUNCTIONALIZED POLYMER NANOCOMPOSITE**
- 13<sup>40</sup>**      *Ayhan Erol, İbrahim Güngör Dilek, Günnur Peşmen*  
**THE USE OF EGG SHELL, CHICKEN FEATHERS, MARBLE POWDER AS CONCRETE ADMIXTURE AND INVESTIGATION EFFECTS**
- 14<sup>00</sup>**      *Ahmet Demirer, Ugur Gündüz*  
**INVESTIGATION OF MECHANICAL AND MICROSTRUCTURES OF EUTECTIC WELDED AND BRAZE WELDING APPLICATION IN AL-CU PIPE JOINTS**
- 14<sup>20</sup>**      *Miroslav Vukičević, Balša Drašković, Denis Vukašinović*  
**SCAVENGING DRAIN ANALYSIS (SDA) FROM TWO-STROKE DIESEL ENGINE - MOST USEFUL ANALYSIS**
- 14<sup>40</sup>**      *Mladen Radojković, Saša Milojević, Snežana Joksić, Aleksandra Kokić Arsić, Blaža Stojanović* - **ONLINE**  
**DISTRIBUTION OF MINIMUM MAIN NORMAL STRESS IN UNIAXIAL TENSION OF PLATE WITH CIRCULAR OPENING**



**ORAL PRESENTATIONS 2 (Conference Hall)**  
**USMENA IZLAGANJA 2 (sala za konferencije)**

***Chairs of the Session: Svetlana Anđelić, Velimir Dedić and Jelena Asanović***

- 16<sup>00</sup>**      *Saša Ljubojević, Branko Latinović*  
**MAPPING THE RISK OF FOREST FIRES AT THE TERRITORY OF THE REPUBLIC OF SRPSKA PRESENTED THROUGH GIS**
- 16<sup>20</sup>**      *Miloš Milašinović, Vladimir Milićević, Dajana Jelić*  
**MODELS OF SOFTWARE SYSTEMS DEVELOPMENT AND DESIGN**
- 16<sup>40</sup>**      *Miroslav Vukičević, Balša Drašković, Petar Mustur, Teodor Šorović*  
**ENVIRONMENTAL BENEFITS AND ENERGY EFFICIENCY ARISING FROM OPTIMIZATION OF VESSEL'S VOYAGE**
- 17<sup>00</sup>**      *Maja Mrkić-Bosančić, Veljko Vuković, Novak Damjanović*  
**EMISSIONS AND REMOVAL OF GREENHOUSE GAS THROUGH THE DECARBONIZATION DIMENSION**
- 17<sup>20</sup>**      *Suzana Malešić, Sandro Nalić, Alen Petković - ONLINE*  
**ENVIRONMENTAL CRIME AS A GLOBAL THREAT TO THE WORLD**
- 17<sup>40</sup>**      *Svetlana Stojkov, Jadranka Đuranović Miličić, Dragan Đuranović, Jovan Javorac, Dejan Živanović - ONLINE*  
**COMPETENCIES IN PUBLIC HEALTH**
- 18<sup>00</sup>**      *Yuri Tor - ONLINE*  
**INTEGRAL CAUSAL PSYCHOTHERAPY**
- 18<sup>20</sup>**      *Diana Stupar, Maja Milić Aleksić, Marina Radulj - ONLINE*  
**PSYCHOLOGICAL ASPECTS OF SPATIALITY**
- 18<sup>40</sup>**      *Maja Milić Aleksić, Marina Radulj, Diana Stupar - ONLINE*  
**THE ROLE OF A DIAGRAM IN THE METHODOLOGY OF ARCHITECTURAL EDUCATION**

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

*Chairs of the Session: Simonida Vilić, Danijela Jokanović and Nada Dursun*

- 12<sup>00</sup>**      *Milica Slijepčević, Karolina Perčić, Stefan Alimpić - ONLINE*  
**IMPULSE BUYING OF FASHION PRODUCTS**
- 12<sup>20</sup>**      *László Csóka, Tibor Gonda, Boglárka Mészáros*  
**REASONS FOR THE GROWING POPULARITY OF LOCAL FOOD -  
RESULTS OF A REPRESENTATIVE CONSUMER MOTIVATION  
STUDY**
- 12<sup>40</sup>**      *Zoran Anišić, Jelena Demko-Rihter, Marija Pantelić*  
**SOME RESULTS IN THE APPLICATION OF THE PRINCIPLES OF  
CIRCULAR ECONOMY IN THE PRODUCTION OF CARDBOARD  
PACKAGING**
- 13<sup>00</sup>**      *Senka Šekularac-Ivošević, Dragana Milošević, Đorđe Lakonić, Boban Melović*  
**EXTERNAL AND INTERNAL DIGITAL MARKETING ACTIVITIES IN  
THE SHIPPING INDUSTRY: THE ANALYSIS OF SOCIAL MEDIA  
ADVERTISEMENT**
- 13<sup>20</sup>**      *Nikola Vojvodić, Mladen Ivić, Željko Grublješić, Azemina Mašović*  
**ARTIFICIAL INTELLIGENCE IN DIGITAL MARKETING**
- 13<sup>40</sup>**      *Marko Milošević, Ognjen Bakmaz*  
**IMPACT OF GOLD PRICE MOVEMENT ON THE RATE OF THE  
RETURNS FROM INVESTMENT ACTIVITY ON FINANCIAL  
MARKETS**
- 14<sup>00</sup>**      *Darko Dimovski, Emilija Marković*  
**DEEPFAKE AS A NEW FORM OF CRIMINALITY**
- 14<sup>20</sup>**      *Ivka Talić - ONLINE*  
**PERCEPTION OF STRATEGIC CORPORATE GOALS AND  
EMPLOYEES' MOTIVATION**
- 14<sup>40</sup>**      *Srđan Miličević, Danijela Despotović, Slobodan Cvetanović, Dragan Turanjanin*  
**CONCEPT OF COMPETITIVENESS OF THE CITY'S ECONOMY**

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

*Chairs of the Session: Valerija Lakić, Nikola Vojvodić and Marina Mišeljić*

- 16<sup>00</sup>**      *Bojana Ostojić, Jelena Ružić, Jelena Stošić, Irena Petrušić - ONLINE*  
**THE ROLE AND SIGNIFICANCE OF BRANDING OF SERBIAN BASKETBALL**
- 16<sup>20</sup>**      *Almir Pustahija, Adisa Jusić*  
**THE ABUSE OF POSITION AND AUTHORITY IN THE BANKING SECTOR THROUGH A CRIMINAL LEGAL CONSTRUCT**
- 16<sup>40</sup>**      *Dražan Erkić, Aco Bobić, Miroslav Baljak*  
**SECURITY CHALLENGES AND THREATS IN THE LOCAL COMMUNITY - CASE STUDY OF THE MUNICIPALITY OF FOCA**
- 17<sup>00</sup>**      *Gojko Pavlović, Branko Petrović*  
**THE IMPACT OF LACK OF REGULATION IN THE FIELD OF DIGITAL ASSETS - CRYPTOCURRENCIES ON CRIMINAL ACTIVITIES AND MISUSE**
- 17<sup>20</sup>**      *Meliha Frndić Imamović*  
**EXTRAMARITAL UNION IN B&H FAMILY LAW WITH SPECIAL REFERENCE TO THE INHERITANCE POSITION OF THE SURVIVING EXTRAMARITAL UNION PARTNER**
- 17<sup>40</sup>**      *Zoran Filipović, Jelena Latinović*  
**INVALID CONTRACTS IN THE LAW OF OBLIGATIONS OF THE REPUBLIC OF SRPSKA**
- 18<sup>00</sup>**      *Marina Nedeljković*  
**DIGITAL MARKETING AND FEMALE ENTERPRENEURSHIP: BETWEEN TRADITIONAL RECOMMENDATION AND MODERN ADVERTISING**
- 18<sup>20</sup>**      *Simonida Vilić, Milana Ilić, Dajana Ajder*  
**THE INFLUENCE OF DIGITAL MEDIA ON MODERN BUSINESS**
- 18<sup>40</sup>**      *Danijela Despotović, Srđan Miličević, Vladimir Nedić, Slobodan Cvetanović*  
**EXTERNAL SOLVENCY MANAGEMENT OF SELECTED BALKAN COUNTRIES**

20<sup>00</sup>

***GALA DINNER, Hotel „Leotar“ (Terrace of the Hotel Leotar)***  
***SVEČANA VEČERA, Hotel „Leotar“ (Terasa hotela Leotar)***  
***Tambourine Orchestra "Acoustic"***  
***Tamburaški orkestar „Akustik“***

**SATURDAY, JUN 17<sup>th</sup>**  
**SUBOTA – 17. JUNI**

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

**10<sup>30</sup> – 10<sup>45</sup>**    **COFFEE BREAK**  
**KAFE PAUZA**

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

**Chairs of the Session: Velimir Dedić, Jovana Marjanović and Dragan Popović**

**10<sup>50</sup>**            *Jovan Javorac, Dejan Živanović, Jadranka Đuranović Miličić, Svetlana Stojkov, Dragan Đuranović - ONLINE*

**THE INFLUENCE OF METEOROLOGICAL FACTORS ON THE DEVELOPMENT OF SEVERE ACUTE EXACERATIONS OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE: A TIME-SERIES FROM NOVI SAD, SERBIA**

**11<sup>10</sup>**            *Alen Kamiš, Negovan Stamenković*

**DEFENSE-IN-DEPTH OF MODERN RADIO SYSTEMS**

**11<sup>30</sup>**            *Mirjana Milovanović, Svetlana Dušanić-Gačić, Zorana Agić*

**ADVERTISING ON SOCIAL NETWORKS THROUGH THE PRISM OF ETHICS**

**11<sup>50</sup>**            *Tibor Gonda, Zoltán Raffay*

**THE ROLE OF TOURISM MANAGEMENT IN ACCESSIBLE TOURISM**

**12<sup>10</sup>**            *Nikša Grgurević*

**SOCIAL CAPITAL IN MONTENEGRO AS A FUNCTION OF THE NEW DEVELOPMENT PARADIGM**

**12<sup>30</sup>**            *Milovan Tomić, Bojana Ostojić, Boris Latinović, Irena Petrušić - ONLINE*

**TEAMWORK IN THE CLUB AS A SUPPORT FOR THE SOCIALIZATION OF YOUNG ATHLETES**

- 12<sup>50</sup> *Ivka Talić - ONLINE*  
**DO DIFFERENCES IN THE MARITAL STATUS OF WOMEN AFFECT THEIR BEHAVIOR AT THE WORKPLACE?**
- 13<sup>10</sup> *Mirjana Milovanović, Zorana Agić, Svetlana Dušanić-Gačić*  
**STUDENT EVALUATION OF THE QUALITY OF HIGHER EDUCATION IN BOSNIA AND HERZEGOVINA**
- 13<sup>30</sup> *Elek Bartha*  
**THE MODEL CHANGE IN THE UNIVERSITY EDUCATION PROGRAMS IN EASTERN HUNGARY**
- 13<sup>50</sup> *Gordana Dukić - ONLINE*  
**DIFFERENCES IN SELF-ASSESSMENTS OF TEACHERS' SPECIFIC COMPETENCIES ACCORDING TO TEACHERS' PROFESSIONAL EDUCATION AND WORK EXPERIENCE**
- 14<sup>15</sup>– 14<sup>45</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 - Hercegovačka Gračanica with a beautiful view of the city of Trebinje; Anđelić Winery - wine tasting with prosciutto and cheese).*  
*Turistički obilazak Trebinja (Manastir „Tvrdoš“; Hercegovačka 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: Božana Odžaković, Velimir Dedić, Svetlana Anđelić*

- TEH1** *Marija Blagojević, Hojjatollah Farahani, Manijeh Firoozi, Danijela Milošević*  
**MULTILAYER PERCEPTRON CLASSIFICATION MODEL FOR DETECTING EMOTIONAL DISTRESS IN BREAST CANCER PATIENTS**
- TEH2** *Katarina M. Miletić, Miloš S. Mošić, Sara V. Ristić, Marija M. Petković-Benazzouz*  
**1D TEMPERATURE TOMOGRAPHY OF A FLAME, BASED ON VIS-NIR SPECTROMETRY**
- TEH3** *Jelena Petronijević, Julijana Tadić, Emilija Milović, Nenad Joksimović, Nenad Janković*  
**VANILLIN-BASED PYRIDO-DIPYRIMIDINES: SYNTHESIS AND ANTIOXIDANT ACTIVITY**
- TEH4** *Sanja Rackov, Aleksandra Nešić, Milan Vraneš, Branka Pilić*  
**FABRICATION OF BIORESOURCE – DERIVED FUNCTIONAL NANOMATERIALS**
- TEH5** *Sanja Rackov, Nikola Maravić, Senka Popović, Branka Pilić, Zita Šereš, Jovana Ugarković, Simona Dulović*  
**CHARACTERISTICS OF EDIBLE FILMS BASED ON SUGAR BEET POLYSACCHARIDES**
- TEH6** *Tatjana Botić, Aleksandra Borković, Pero Dugić, Vedran Kovačević*  
**RELATIONSHIPS BETWEEN THE STRUCTURE AND MECHANICAL PROPERTIES OF POLYETHYLENE BLOWN FILMS**
- TEH7** *Dijana Drljača, Jelena Lazović, Dajana Dragić, Tatjana Botić*  
**QUALITY TESTING OF SODIUM BICARBONATE**
- TEH8** *Mirjana Ristić, Suzana Samaržija-Jovanović, Vojislav Jovanović, Marija Kostić, Tijana Jovanović, Gordana Marković, Milena Marinović-Cincović*  
**REDUCTION OF FORMALDEHYDE EMISSION IN MODIFIED UF RESINS BASED ON BENTONITE AND OMMT**
- TEH9** *Marija Kojić, Tamara Pašti, Slavica Porobić, Đurica Katnić, Ivica Vujčić, Milena Marinović-Cincović*  
**Ca-BIOCHAR AS METHYLENE BLUE BIOSORBENT**
- TEH10** *Biljana Vučićević, Dragoslav Mrđa, Valentina Turanjanin, Predrag Škobalj, Milica Mladenović*  
**PCM APPLICATION IN LIGHT CONSTRUCTION BUILDINGS IN VARIOUS CLIMATES**



**TEH11** *Dragoslav Mrđa, Biljana Vučićević, Jasmina Mušović, Milena Marinović-Cincović, Tajana Trtić-Petrović, Milica Mladenović, Valentina Turanjanin*

**THE POSSIBILITY OF USING POLYMER-BASED PHASE CHANGE MATERIALS FOR THERMAL HEAT STORAGE**

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**OBR2** *Jovana S. Marjanović, Marina D. Kostić, Vera M. Divac*

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