



XIV INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT – STED 2025

CONFERENCE PROGRAM

XIV MEĐUNARODNA KONFERENCIJA O DRUŠTVENOM I TEHNOLOŠKOM RAZVOJU – STED 2025

PROGRAM KONFERENCIJE

Trebinje, June, 12-15, 2025
Trebinje, 12-15. juni 2025. godine

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

Co-organizers:



**UNIVERSITY of
DEBRECEN**



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Fakulteta za logistiko



TECHNICAL UNIVERSITY OF KOŠICE
Faculty of Manufacturing Technologies



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University of Applied Sciences

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

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

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NOTE:

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

XIV INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT

GENERAL CONFERENCE PROGRAM

THURSDAY, JUNE 12th

ČETVRTAK – 12. JUNI

12⁰⁰ – 18⁰⁰ Registration of participants (Hotel „Leotar“ – in the lobby)

Registracija učesnika (Hotel „Leotar“ – u holu)

18⁰⁰ – 18³⁵ OPENING CEREMONY (Conference Hall)

OTVARANJE KONFERENCIJE (sala za konferencije)

18⁴⁰ – 19⁵⁵ PANEL DISCUSSION (Conference Hall)

PANEL DISKUSIJA (sala za konferencije)

20⁰⁰ 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 13th

PETAK – 13. JUNI

09⁰⁰ – 18⁰⁰ Registration of participants (Hotel „Leotar“ – in the lobby)

Registracija učesnika (Hotel „Leotar“ – u holu)

09³⁰ – 11⁰⁰ PLENARY LECTURES (Conference Hall)

PLENARNA PREDAVANJA (sala za konferencije)

11⁰⁰ – 11²⁵ COFFEE BREAK

KAFE PAUZA

11³⁰ – 14⁰⁰ PARALLEL SESSION

PARALELNE SESIJE

14⁰⁰ – 16⁰⁰ LUNCH BREAK

PAUZA ZA RUČAK

16⁰⁰– 19⁰⁰ *PARALLEL SESSION*
PARALELNE SESIJE

20⁰⁰ *GALA DINNER, Hotel „Leotar“ (Terrace of the Hotel Leotar)*
SVEČANA VEČERA, Hotel „Leotar“ (Terasa hotela Leotar)

SATURDAY, JUN 14th
SUBOTA – 14. JUNI

09³⁰– 11³⁰ *POSTER SECTION (Terrace of Hotel Leotar)*
POSTER SEKCIJA (Terasa hotela Leotar)

11³⁰– 14⁰⁰ *PARALLEL SESSION*
PARALELNE SESIJE

14¹⁰– 14⁴⁰ *AWARDS AND CLOSING CEREMONY (Conference Hall)*
DODJELA NAGRADA I ZATVARANJE KONFERENCIJE

15²⁰– 19⁰⁰ *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 nekoliko vrsta vina uz pršut i sir).

XIV INTERNATIONAL CONFERENCE ON SOCIAL AND TECHNOLOGICAL DEVELOPMENT

FULL CONFERENCE PROGRAM

THURSDAY, JUNE 12nd
ČETVRTAK – 12. JUNI

12⁰⁰ – 18⁰⁰ ***Registration of participants (Hotel „Leotar“ – in the lobby)***
Registracija učesnika (Hotel „Leotar“ – u holu)

18⁰⁰ – 18³⁵ ***OPENING CEREMONY (Conference Hall)***
OTVARANJE KONFERENCIJE (sala za konferencije)

18⁴⁰ – 19⁵⁵ ***PANEL DISCUSSION (Conference Hall)***
PANEL DISKUSIJA (sala za konferencije)

ARTIFICIAL INTELLIGENCE IN HIGER EDUCATION: THREAT OR A USEFUL TOOL?

Moderator: **Dr Lubica Janjetović** – Assistant Professor of Faculty of Computer Sciences, University PIM Banja Luka, **Bosnia and Herzegovina.**

Panelist 1: **Dr Anton Vorina** – Full Professor, School of Economics, Vocational College, Celje, **Slovenia.**

Panelist 2: **Dr Muhamed Ćosić** – Assistant Professor, of Faculty of Computer Sciences, University PIM Banja Luka, **Bosnia and Herzegovina.**

Panelist 3: **Dr Nikša Grgurević** - Assistant Professor of Faculty of Management, Herceg Novi, **Montenegro.**

20⁰⁰ ***COCKTAIL - Hotel „Leotar“ (Terrace of the Hotel Leotar)***
KOKTEL - Hotel „Leotar“ (Terasa hotela Leotar)

FRIDAY, JUNE 13th
PETAK – 13. JUNI

09⁰⁰ – 18⁰⁰ **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: Milan Vraneš, Snežana Papović, Nenad Joksimović

09³⁰ - 10¹⁰ **Katarina M. Miletić – University of Belgrade, Faculty of Physics, Serbia**
NON-INVASIVE OPTICAL SPECTROSCOPY IN PLANT STRESS
RESEARCH: CIRCADIAN RHYTHM AS A DIAGNOSTIC
MARKER

10¹⁵ - 10⁵⁵ **Izzet Tasar - Firat University, Elaziğ, Türkiye.**
EUROPIEN UNION GREEN DEAL

11⁰⁰ - 11²⁵ **COFFEE BREAK**
KAFE PAUZA

ORAL PRESENTATIONS 1 (CONFERENCE HALL)

USMENA IZLAGANJA 1 (sala za konferencije)

Chairs of the Session: Sanja Rackov, Muhamed Ćosić, Teona Teodora Borović

12⁰⁰ *Micić Ivana*

APPROXIMATE REGULAR RELATIONS OF FUZZY SOCIAL NETWORK

12²⁰ *Dušan D. Đorđević, Bogdan D. Đorđević*

FRECHET DERIVATIVES OF EXPONENTIAL AND LOGARITHMIC FUNCTIONS IN BANACH ALGEBRAS

12⁴⁰ *Janičić Zorana, Micić Ivana, Stanimirović Stefan, Ćirić Miroslav*

ENHANCING FUZZY AUTOMATA DETERMINIZATION THROUGH PARAMETRIC T-NORM

13⁰⁰ *Branko Sarić*

ON SOLVING HAMILTON'S GENERAL QUADRATIC EQUATION

13²⁰ *Milica Đorđević, Jasmina Đorđević*

SIRS MODEL FOR COMPUTER VIRUSES PROPAGATION

13⁴⁰ *Jelena Matejić, Ivana Micić, Miroslav Ćirić, Stefan Stanimirović*

APPROXIMATING LANGUAGE EQUIVALENCE: COMPUTATION OF ε -WEAK BISIMULATIONS FOR FUZZY AUTOMATA

14⁰⁰ *Dušan D. Đorđević, Miljana Jovanović, Marija Milošević*

A TAYLOR APPROXIMATION FOR A CLASS OF NEUTRAL SDE WITH CONSTANT DELAY

14²⁰ *Tünde Anna Kovács, Ahmad Buhairi Minhalina Binti², Ferenc Haraszti¹, László Tóth¹, Zoltán Nyikes*

SODIUM CHLORIDE SOLUTION TEST OF Ti_4Al_6V IMPLANT SPECIMENS MANUFACTURED BY ADDITIVE TECHNOLOGY

14⁴⁰ *Vesna Simikić, Ivana Maletić-Sekulić, Snežana Babac*

INTERACTION OF BIOMEDICAL ENGINEERING AND ARTIFICIAL INTELLIGENCE IN THE DEVELOPMENT OF INTELLIGENT HEARING SYSTEMS

ORAL PRESENTATIONS 2 (CONFERENCE HALL)
USMENA IZLAGANJA 2 (sala za konferencije)

Chairs of the Session: Ljubica Janjetović, Nevena Vukić, Jelena Asanović

- 16⁰⁰** *Miroslav Vukičević, Balša Drašković, Manolis Annetis, Xristoforos Diamantis*
**AIR POLLUTION FROM CRUISE SHIPS IN BOKA BAY:
ENVIRONMENTAL AND PUBLIC HEALTH IMPACTS IN THE
PORT OF KOTOR**
- 16²⁰** *Miroslav Vukičević, Ivan Šoć, Robert Janković*
**SIMULATING REALITY: TRANSFORMING MARITIME TRAINING
THROUGH VR TECHNOLOGY**
- 16⁴⁰** *Anton Vorina, Zeba Zarin Ansari, Darina Dupláková, Novak Damjanović, Mladena
Krajišnik*
**REVOLUTIONIZING SUPPLY CHAINS: THE TRANSFORMATIVE
ROLE OF ARTIFICIAL INTELLIGENCE IN LOGISTICS**
- 17⁰⁰** *Branislav Sančanin, Aleksandra Penjišević, Ognjen Bakmaz*
**THE USE OF ARTIFICIAL INTELLIGENCE IN THE
RECRUITMENT PROCESS**
- 17²⁰** *Muhammed Ćosić, Dejan Kojić, Azra Ahmić, Lejla Mustoo Baser*
**ARTIFICIAL INTELLIGENCE AND EDUCATION: BALANCING
DIGITAL TRANSFORMATION AND MENTAL HEALTH**
- 17⁴⁰** *Vučelja Lekić, Mladen Janjić, Nada Damljanović*
**OPTIMIZING TEACHING STRATEGIES IN LARGE GROUPS
THROUGH MULTIPLICATIVE MCDM METHOD**

ORAL PRESENTATIONS 3 (HALL 2)
USMENA IZLAGANJA 3 (sala 2)

Chairs of the Session: Simonida Vilić, Bojan Milićević and Jelena Jovović

12⁰⁰ *Zoltán Szalánczi, Éva Judit Szalánczi-Bartha - ONLINE*

TALENT MANAGEMENT IN FOOTBALL

12²⁰ *Éva Judit Szalánczi-Bartha, Zoltán Szalánczi - ONLINE*

RECREATIONAL SPORT AND PERSONALITY DEVELOPMENT

12⁴⁰ *Dajana Bašić, Elvir Ibeljić*

VIRTUAL ROLE MODELS: POSITIVE OR NEGATIVE INFLUENCES ON THE IDENTITY FORMATION ON CHILDREN AND ADOLESCENTS?

13⁰⁰ *Jovana Galić, Darjana Sredić*

THE VALUES AND ATTITUDES AS A DRIVERS OF ORGANIC FOOD PURCHASE

13²⁰ *Nedim Prelić, Danijela Jokanović, Nera Kravić Prelić*

CONNECTION OF PERCEIVED SOCIAL SUPPORT WITH THE SCHOOL ACHIEVEMENT OF HIGH SCHOOL STUDENTS

13⁴⁰ *İnci Tasar, Ayse Betul Toplu*

TEACHING GRAMMAR THROUGH ORAL STORYTELLING

14⁰⁰ *Emir Sinan, Darjana Sredić - ONLINE*

THE IMPORTANCE OF THE RELATIONS BETWEEN FAMILY AND SCHOOL (PEDAGOGUE/PSYCHOLOGIST)

14²⁰ *Elek Bartha*

GRAPES AND WINE IN FOLKLORE TRADITION

ORAL PRESENTATIONS 4 (HALL 2)
USMENA IZLAGANJA 4 (sala 2)

Chairs of the Session: Nada Banović, Mladen Ivić and Marina Mišeljčić

16⁰⁰ *Vedran Zlatić - ONLINE*

**HUMAN DIGNITY AS PART OF THE MATERIAE
CONSTITUTIONIS**

16²⁰ *Aleksandra Milošević*

**DECRIMINALIZATION OF PROHIBITION AND
CRIMINALIZATION OF RISK: LEGAL CHALLENGES OF
NUCLEAR ENERGY DEVELOPMENT IN SERBIA**

16⁴⁰ *Huyen Thi Thu Nguyen - ONLINE*

HOW TO BUILD A GOOD SUPPLY CHAIN

17⁰⁰ *Zoran Stjepanović, Veljko Vuković, Darko Stjepanović, Halid Žigić*

**BENCHMARKING AS A MANAGEMENT METHOD IN
INDUSTRIAL CAPACITIES OF THE RAILWAYS OF THE
REPUBLIC OF SRPSKA**

17²⁰ *Dajana Ajder, Simonida Vilić*

**THE STRATEGIC ROLE OF THE SERVICE ENVIRONMENT IN
THE PROCESS OF ACHIEVING A COMPETITIVE ADVANTAGE
ON THE EXAMPLE OF THE KRAS COMPANY**

17⁴⁰ *Sandra Đukanović, Zoran Rakićević, Ognjen Anđelić - ONLINE*

**OPPORTUNITIES FOR ENCOURAGING INTERNAL
ENTREPRENEURIAL INITIATIVES AMONG EMPLOYEES IN
MANUFACTURING COMPANIES – CASE STUDY OF THE
COMPANY VENDOM**

18⁰⁰ *Sandra Đukanović, Danica Lečić-Cvetković*

**APPLICATION OF MODERN TECHNOLOGIES TO IMPROVE THE
PROCUREMENT PROCESS: CASE STUDY OF THE COMPANY
"VENDOM"**

SATURDAY, JUN 14^h

SUBOTA – 14. JUNI

09³⁰– 11¹⁵ POSTER SECTION (Terrace of Hotel Leotar)
POSTER SEKCIJA (Terasa hotela Leotar)

11¹⁵– 11³⁰ COFFEE BREAK
KAFE PAUZA

ORAL PRESENTATIONS 5 (CONFERENCE HALL)
USMENA IZLAGANJA 5 (sala za konferencije)

Chairs of the Session: Nevena Vukić, Anton Vorina and Danijela Jokanović

11³⁰ Zoran Stjepanović, Veljko Vuković, Darko Stjepanović, Živoslav Adamović, Svetozar Bugarin

MODEL OF THE BALANCED SCORECARD CONCEPT IN THE COMPANY

11⁵⁰ Nikša Grgurević

GLOBAL DEBT AND INSTITUTIONAL EFFICIENCY

12¹⁰ Sofija Pačariz, Simonida Vilić

THE ROLE OF EMOTIONAL LITERACY IN MODERN MANAGEMENT

12³⁰ Dajana Bašić, Elvir Ibeljić

THE VIRTUAL WORLD: ILLUSION OR SAFE HAVEN FOR CHILDREN AND ADOLESCENTS

12⁵⁰ Vesna Simikić, Ivana Maletić-Sekulić, Snežana Babac - ONLINE

THE ROLE OF ARTIFICIAL INTELLIGENCE IN THE TRANSFORMATION OF EDUCATION: NEW TRENDS AND CHALLENGES

13¹⁰ Jadranka Denkova, Jovan Ananiev

ELECTRONIC MANAGEMENT OF THE PUBLIC ADMINISTRATION, A PROCESS THAT INFLUENCES ITS EFFECTIVENESS AND RESPONSIBILITY

13³⁰ – 13⁵⁰ *AWARDS AND CLOSING CEREMONY (Conference Hall)*

DODJELA NAGRADA I ZATVARANJE KONFERENCIJE

15⁰⁰ – 19⁰⁰ *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).

POSTER SECTION
POSTER SEKCIJA

POSTER SESSION 1

POSTER SEKCIJA 1

Chairs of the Session: Katarina Miletić, Veljko Vuković, Ljubica Janjetović

- PS1-1** *Milena Marinović-Cincović, Marija Krstić, Tijana Jovanović, Suzana Samaržija-Jovanović, Katarina Stepić, Slobodan Čirić, Vojislav Jovanović*
CHITOSAN AS A FORMALDEHYDE SCAVENGER AND DYE SORBENT
- PS1-2** *Ognjen Todorović, Slavica Porobić-Katnić, Marija Milenković, Milena Marinović-Cincović*
EFFECT OF GAMMA RADIATION ON THE STRUCTURAL AND MECHANICAL PROPERTIES OF IPP-LDPE POLYMER BLENDS
- PS1-3** *Jelena P. Georgijević, Lazar Rakočević, Dejan Pjević*
ELECTROCHEMICAL EVALUATION OF VO_x THIN FILMS FOR ENERGY STORAGE
- PS1-4** *Jelena P. Georgijević, Lazar Rakočević, Tijana Đorđević, Dejan Pjević*
THIN-FILM SUSTAINABLE TECHNOLOGIES: THE POTENTIAL OF VANADIUM OXIDES
- PS1-5** *Lazar Rakočević, Jelena Golubović, Svetlana Štrbac*
MINIMIZING PLATINUM GROUP METAL CONTENT IN CATALYSTS FOR THE HYDROGEN EVOLUTION REACTION
- PS1-6** *Lazar Rakočević, Jelena P. Georgijević, Dejan Pjević*
XPS CHARACTERIZATION OF VO_x THIN FILMS OBTAINED BY SPUTTER DEPOSITION
- PS1-7** *Nenad Joksimović, Jelena Petronijević, Marija Ristić, Snežana Branković, Filip Grbović*
BETA-DIKETO ESTERS IN REMEDIATION PROCESS OF SEWAGE SLUDGE
- PS1-8** *Marija Ristić, Maja Đukić, Jelena Petronijević, Ivan Jakovljević, Marina Ćendić Serafinović, Nenad Joksimović, Milena Vukić*
INTERACTIONS OF HUMAN SERUM ALBUMIN WITH A PALLADIUM(II) COMPLEX CONTAINING A THIOAMIDE MOIETY: DETAILED EXPERIMENTAL AND MOLECULAR DOCKING STUDIES
- PS1-9** *Snežana Branković, Radmila Glišić, Filip Grbović, Nenad Joksimović, Jelena Petronijević, Jelena Bogosavljević*
INNOVATIVE APPROACH TO NEUTRALIZING OF POLLUTANTS IN ASBESTOS TAILINGS USING β- DIKETONATE

- PS1-10** *Snežana Branković, Radmila Glišić, Filip Grbović, Sladjan Adžić, Kristina Luković, Aleksandra Rakonjac, Marija Marin*
BIOLOGICAL TEST METHODS – MODEL FOR ASSESSING THE NEUTRALIZATION OF SEWAGE SLUDGE POLLUTANTS USING β -DIKETONATE
- PS1-11** *Snežana M. Papović, Teona Teodora V. Borović, Jovana J. Selak, Nikolett A. Cákó Bagány*
PHYSICO-CHEMICAL INVESTIGATION OF IONIC ADDITIVES FOR ENHANCED LITHIUM-ION BATTERY PERFORMANCE
- PS1-12** *Sara Klimenta, Andrija Vukov, Snežana Papović, Teona Teodora Borović, Jovana Selak, Milan Vraneš*
TAILORING VALPROATE-BASED IONIC LIQUIDS FOR NEUROPHARMACEUTICAL APPLICATIONS: HYDRATION BEHAVIOR AND THERMOPHYSICAL INSIGHT
- PS1-13** *Milan Vraneš, Sara Klimenta, Teona Teodora Borović, Nikolett Cako Baganj, Jovana Selak, Snežana Papović, Sanja Belić, Andrija Vukov, Slobodan Gadžurić*
DESIGN OF BIOCOMPATIBLE TOPICAL FORMULATIONS BASED ON PHARMACEUTICALLY ACTIVE IONIC LIQUIDS AND NATURAL DEEP EUTECTIC SOLVENTS
- PS1-14** *Nebojša Švraka, Filip Pehar*
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