



COAST 2025

INTERNATIONAL CONFERENCE
ON ADVANCES IN SCIENCE AND
TECHNOLOGY

4th International Conference on Advances in Science and Technology

4th June to 7th June 2025

Venue: Hunguest Hotel Sun Resort, Herceg Novi

CONFERENCE PROGRAM

Wednesday 4th June 2025	
15:00 – 18:00	Registration
19:00 – 20:00	Opening of the Conference
20:00 – 21:00	Cocktail

Thursday, 5th June 2025	
10:00 – 11:00	Plenary session (Main Hall)
	Moderator: Irena Petrušić, PhD
	Speakers Radmila Janičić, PhD <i>Social marketing in raising awareness about formal and non-formal education in digital environment</i> Maja Hmelak, PhD <i>Social networks in the preschool age</i>
11:00-11:30	Break

11:30-14:00	Work in session <ul style="list-style-type: none"> ➤ Session I: Main Hall ➤ Session II: Conference Room I ➤ Session III: Conference Room II (Main Hall, Conference room I, Conference room II)
14:00-15:00	Break
15:00-18:00	Work in session <ul style="list-style-type: none"> ➤ Session IV: Conference Room II (Main Hall, Conference room II)

Session I: Economy, management, tourism and hospitality	
Main Hall	
11:30-14:00	Work in session
15:00-18:00	
Moderators: Nikša Grgurević, PhD, Ivan Stevović, PhD, Esma Nur Cerinan Otović, MSc	
IMPLICATIONS OF DEMOGRAPHIC TRANSITION ON ECONOMIC GROWTH IN THE REPUBLIC OF SERBIA Edvard Jakopin	
THE LEASING CONTRACT - THE NEW ALTERNATIVE FINANCING Veselin Hristov	
DIGITALIZAION OF BANKS AS A FACTOR IN CONSUMER EXPERIENCE Dragana Nikolić Ristić, Tatjana Mamula Nikolić, Radomir Stojković	
CLUSTER ANALYSIS OF EUROPEAN COUNTRIES BASED ON INNOVATION PERFORMANCE Ivica Nikolić, Lidija Krstić, Anđelka Stojanović	
CAPITAL INFLOW AS A FUNCTION OF FINANCIAL SYSTEM STABILITY Ognjen Bakmaz, Dragan Vukasović, Aco Bobić	
PERFORMANCE EVALUATION OF ISLAMIC BANKING AND PARTICIPATION FINANCE INSTITUTIONS IN TÜRKIYE WITH TOPSIS METHOD Selcuk Kendirli, Fevzi Gul	
AUTOMATION AND DIGITALIZATION OF HUMAN RESOURCE MANAGEMENT Jovan Spaić, Dragan Popović	
APPLICATION OF ARTIFICIAL INTELLIGENCE IN THE OPTIMIZATION OF MARKETING STRATEGIES IN THE CONTEXT OF PROJECT MANAGEMENT Bojana Ostojić, Maja Cogoljević, Dragan Klarić, Slađana Vujičić, Milena Cvjetković, Jelena Ružić	

REPETITION OF CRISES IN INTERNATIONAL ECONOMY Nikša Grgurević, Mladen Ivić	
FINANCIAL SUCCESS ANALYSIS OF COMPANIES OPERATING IN THE BIST HEALTH SECTOR USING THE TOPSIS METHOD Selçuk KENDİRLİ, Zekeriya LEK	
THE ROLE AND IMPORTANCE OF HRM IN MANAGING THE WORKFORCE SHORTAGE IN TOURISM ENTERPRISES IN MONTENEGRO Jovan Spaić, Dragan Klarić	
THE ROLE OF ADVANCED PERSONALIZATION TECHNOLOGIES IN DIGITAL MARKETING THROUGH PROJECT MANAGEMENT Bojana Ostojić, Vladan Cogoljević, Milena Cvjetković, Esma Otović	
QUALITY OF INSTITUTIONS AS A TOOL FOR UNLOCKING POTENTIAL OF TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF WESTERN BALKAN COUNTRIES Đorđe Kotarac, Simo Stevanović	
EXPLORING THE NEXUS OF TOURISM AND FEMALE ENTREPRENEURSHIP IN MONTENEGRO: CHALLENGES AND OPPORTUNITIES FOR GROWTH Ljiljana Rakočević, Aleksandra Vujko	
THE IMPACT OF ADDITIONAL EDUCATION ON EMPLOYEE MOTIVATION Dejana Crvenica Đurašković	
FROM SCIENCE TO MARKET: CHALLENGES AND DEVELOPMENT OPPORTUNITIES OF ACADEMIC SPIN-OFF COMPANIES IN SERBIA Nikola Radosavljević, Gordana Rendulić Davidović, Cariša Bešić	
THE CORRELATION OF EMPLOYEE DEVELOPMENT AND JOB SATISFACTION: EVIDENCE FROM THE INSURANCE INDUSTRY Aleksandar Glišić	
THE EVOLUTION AND GROWTH OF SMALL ENTERPRISES IN THE UNITED STATES Bogdan Vukolić	
<p style="text-align: center;">Session II: Engineering, technology and materials</p> <p style="text-align: center;">Conference Room I</p>	
11:30-14:00	Work in session
Moderators: Jovana Jovanović, PhD, Ivana Savić, MSc	
ON TOTAL INTEGRABILITY IN R^2 Branko Sarić	

APPLICATION OF 3D SCANNING AND 3D PRINTING IN THE PRESERVATION OF CULTURAL HERITAGE
Andelko Obradović, Matija Miljanić, Mihailo Jovanović, Milena Đukanović
SUSTAINABLE DEVELOPMENT AND CIRCULAR ECONOMY SUPPORTED BY ARTIFICIAL INTELLIGENCE TOOLS
Ivan Stevović, Jovana Jovanović, Mihailo Jovanović
CRUDE OIL FIRST PURCHASE PRICE FORECAST BASED ON THE MONTE CARLO METHOD
Adrijana Jevtić, Miša Tomić, Dejan Riznić
AN INNOVATIVE APPROACH TO THE GRADED DURÁN-TYPE MESH
Mirjana Brdar, Goran Radojev, Ljiljana Teofanov
THERMAL IMAGING SPECTROMETRY AND THERMOGRAPHIC SNAPSHOTS FOR THREE BUILDING BLOCKS OF DIFFERENT AGES
Jovana Jovanović, Ivan Stevović, Milena Đukanović
APPLICATION OF OPTIMIZATION ALGORITHMS IN FIRE PROTECTION SYSTEMS
Goran Bošković, Marko Todorović, Marina Bošković, Bojana Zoraja, Zoran Čepić
MULTI-CRITERIA APPROACH TO THE SELECTION OF ELECTRIC DELIVERY VEHICLES USING THE AHP-ELECTRE METHODS
Jelena Mihajlović, Goran Petrović, Aleksandar Stanković
IMPACT OF REVOLUTION 4.0 ON BURNOUT OF EMPLOYEES IN IT SECTOR AND MAPPING OF KEY FACTORS
Katarina Karić, Miloš Papić, Dušan Garabinović

Session III: Sustainable development, ecology, energy efficiency and renewable energy sources	
Conference room II	
11:30-14:00	Work in session
Moderator: Bojana Ostojić PhD	
ADVANCED 3D PRINTING TECHNOLOGIES IN WIND TURBINE DESIGN FOR SUSTAINABLE FUTURE	
Nikola Jovović, Mihailo Jovanović, Milena Đukanović, Luka Jovović	
THE ROLE OF PSYCHOLOGICAL FACTORS IN THE FUNCTION OF DIGITAL PROMOTION OF SUSTAINABLE BEHAVIOR	
Dragana Nikolić Ristić, Tatjana Mamula Nikolić, Radomir Stojković	
THE APPLICATION OF ARTIFICIAL INTELLIGENCE IN ENVIRONMENTAL PROTECTION	
Andela Vasović, Nebojša Denić	

APPLICATION OF NITRIC ACID-MODIFIED HYDROCHAR FOR THE CEPHALEXIN AND BEZAFIBRATE REMOVAL FROM WATER Marija Šobić, Mirjana Petronijević, Sanja Panić, Igor Antić, Jelena Živančev, Nataša Đurišić-Mladenović	
14:00-15:00	Break
15:00-17:00	Work in session
Session IV: Computer science and information technology Conference Room II	
Moderators: Danijela Milošević, PhD, Slobodan Slavić, MSc	
15:00-18:00	Work in session
LLM CODE GENERATION: THE CHALLENGE OF ACCURATE SCORING Lazar Krstic, Marija Jolovic, Branko Arsic	
BIMODAL SPEECH RECOGNITION BASED ON CLASSICAL MEL AND WAVELET MEL CEPSTRAL COEFFICIENTS Branko Marković, Gordana Marković	
ETHICAL AND METHODOLOGICAL ISSUES IN AI-BASED DECISION SUPPORT SYSTEMS FOR MENTAL HEALTH Dubravka Živković, Lazar Krstić, Milena Živković, Dragana Krstić	
THE ROLE OF FUZZY MATHEMATICS IN DATA SEGMENTATION AND ANALYSIS Nataša Milosavljević, Julija Ščekić, Irma Ibrišimović, Nebojša Ralević, Damir Bajrić	
SHALLOW GEOTHERMAL POTENTIAL IN THE DANUBE REGION – CAN CHATBOTS HELP PLAN THE WAY FORWARD? Filip Nastić, Davor Končalović, Dubravka Živković, Dušan Gordić, Vladimir Vukašinović, Mladen Josijević	

Friday, 6th June 2025	
09:30-11:30	Poster session I
10:00-13:00	Work in session (Main Hall)
13:00-14:30	Break
14.30-17:00	Work in session (Main Hall)
15:30-17:30h	Poster session II

20:30-00:00	Gala dinner
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<p align="center">Session V: Erasmus + Projects and IPA Projects Panel</p> <p align="center">Main Hall</p> <p align="center">10:00–13:00</p>	
<p align="center">Moderators: Milena Đukanović, PhD, Irena Petrušić, PhD</p>	
<p>Presentation of Erasmus+ Project GEAR</p> <p>Jovana Jovanović, Irena Petrušić, Tomaž Bratina, Maja Hmelak, Ivana Savić</p>	
<p>Presentation of Erasmus+ Project SMART</p> <p>Milena Đukanović, Bojana Mališić, Marija Vuković</p>	
<p>Presentation of A4SUSTINNO Project</p> <p>Bojana Mališić</p>	
<p align="center">Session VI: Humanities: philosophy, philology, history, theology</p> <p align="center">Session VII: Education, online education, e-Learning</p> <p align="center">Session VIII: Legal and political sciences, sociology, psychology</p> <p align="center">Main Hall</p>	
14:30-17:00	Work in session
<p align="center">Moderators: Irena Petrušić, PhD, Esma Nur Cerinan Otović, MSc</p> <p align="center">Bojana Ostojić, PhD, Ivana Savić, MSc</p>	
<p>AUDEN AND TECHNOLOGY</p> <p>Tomislav Pavlović</p>	
<p>REVIVING THE INTANGIBLE: THE ROLE OF ARTIFICIAL INTELLIGENCE IN SUSTAINING CULTURAL TRADITIONS OF BOKA KOTORSKA</p> <p>Irena Petrušić, Ivana Savić</p>	
<p>A STUDY ON IMPACT OF DIGITAL MARKETING STRATEGIES ON EDUCATION SECTOR: THE IMPACT OF DIGITAL MARKETING ON STUDENT AND EDUCATOR BEHAVIOUR</p>	

Esma Nur Cerinan Otovic, Bojana Ostojic
BREAKING STEREOTYPES: ADDRESSING GENDER DISPARITIES IN STEM EDUCATION AND CAREERS
Tomaž Bratina, Nika Golob, Eva Kranjec, Irena Petrušić, Maja Hmelak
THE BENEFITS OF ORGANIZING COURT EXPERTS INTO CHAMBERS IN ORDER TO IMPROVE THEIR WORK AND THE SYSTEM OF COURT EXPERTISE
Konstantin Bitrakov, Viktor Kamnar, Ana Pavlovska-Daneva
MONTENEGRO AND THE AI ACT: CHALLENGES OF REGULATORY TRANSITION, GEOPOLITICAL AND ECONOMIC IMPLICATIONS
Nina Vuksanović
VIOLATION OF PROPERTY RIGHTS – YES/NO IN EXECUTION PROCEEDINGS
Jasmina Tahirović, Adis Mehić

Poster Session - Friday, 6th June 2025	
09:30-11:30	Poster session I
ASSESSMENT OF THE VALIDITY AND RELIABILITY OF THE VIGILANT LEADERSHIP SCALE ON A SAMPLE OF TEACHERS IN SERBIA	
Stefan Ninković, Olivera Knežević Florić, Tamara Dragojević	
HIGH SCHOOL STUDENTS' PERCEPTIONS AND EXPERIENCES WITH AI CHATBOTS IN EDUCATION	
Stanislava Olić Ninković, Jasna Adamov, Tihomir Lazarević	
FOOD ADDITIVES	
Gordana Jovanovic, Ana Vasic, Bojan Damnjanovic	
ASSESSMENT OF THE CONDITION OF THE SOIL ON THE SOUTHWESTERN SLOPES OF MOUNT BJELASICA (MONTENEGRO) IN RELATION TO THE TESTED METALS	
Vlatko Kastratovic, Bojana Knezevic	
THE SPHERICAL FUZZY AHP METHOD FOR DEVELOPING SUCCESSFUL E-COMMERCE PLATFORM DESIGNS	
Mimica Milošević, Dušan Milošević and Miloš Nikolić	
INFORMATION SYSTEMS DEVELOPMENT IN THE INDUSTRY 5.0 ERA	
Olga Dukić, Miloš Papić	
NEW RUTHENIUM (II) POLYPYRIDYL COMPLEXES; INTERACTIONS WITH BIOMOLECULES	
Milica Medjedović Stefanović, Ana Rilak Simović, Biljana Petrović	
BIOMOLECULAR INTERACTIONS OF NOVEL RUTHENIUM(II) HALF-SANDWICH COMPLEXES	
Ana Rilak Simović, Nenad Janković, Lazar Milović, Milica Mededović	

DYNAMIC SIMULATION OF WIND TURBINE SYSTEMS Snežana Dragičević, Milan Marjanović	
BIOINDICATION OF AIR QUALITY IN THE BANJSKA USING LICHENS AS BIOINDICATORS Gordana R. Aleksić, Tatjana R. Jakšić, Predrag S. Vasić, Slavica S. Ćirić, Teodora N. Aleksić, Mila Z. Jakšić, Gordana Subakov – Simić	
ITERATIVE DETECTION OF CHANGE IN MEDICAL IMAGES USING BEE COLONY OPTIMIZATION AND BLOCK DIVISION Nataša Milosavljević, Nebojša Ralević, Dejan Ćebić, Dušan Denčić, Vladimir Ilić	
DYNAMIC ANALYSIS OF A REINFORCED CONCRETE FRAME WITH MASONRY INFILL Timur Curić, Demir Vatić, Nebojša Ralević, Anka Starčević-Ćurčin, Igor Džolev	
SEISMIC PERFORMANCE OF IRREGULAR REINFORCED CONCRETE STRUCTURES Timur Curić, Anka Starčević-Ćurčin, Igor Džolev	
THE IMPORTANCE OF A STRATEGIC PROCESS IN IMPROVING THE COMPANY'S PERFORMANCE Neda Nikolić, Bojana Đalović, Jasmina Ćurčić, Miodrag Zečević, Milan Vesković	
DESIGNING THE PRODUCTION PROCESS USING DIAGRAMS IN THE "ATTRIUM HOME CENTER" BUSINESS SYSTEM Jasmina Ćurčić, Zoran Nešić, Neda Nikolić, Milan Vesković, Nebojša Denić	
ARTIFICIAL INTELLIGENCE FOR AGRICULTURE DIGITALIZATION: A REVIEW Marija Blagojević, Danijela Milošević, Marko Petković	
DATA STRUCTURE FOR MODELING INTELLIGENT AGENTS IN THE EVACUATION SIMULATION Srdjan Popov, Tanja Vranic, Jovana Simic, Djordje Cosic, Suzana Draganic, Milena Zeljkovic	
CURRICULUM REFORM IN WEB PROGRAMMING TEACHING: IMPLEMENTING THE PYTHON/DJANGO PLATFORM IN THE "INTERACTIVE WEB APPLICATIONS" COURSE Srdjan Popov, Nikolet Gleser, Vladan Rankov, Aleksandra Rankov, Tanja Vranić, Margarita Khazhoyan	
TRADITION OF INTANGIBLE CULTURAL HERITAGE: THE INFLUENCE OF THE MEDIA ON THE PROMOTION OF FOLK CREATIVITY INSPIRED BY THE GRAPE HARVEST Branislav Sančanin, Aleksandra Penjišević, Ognjen Bakmaz	
MULTI-CRITERIA DECISION-MAKING APPROACH FOR SELECTING RAW MATERIALS IN BIODIESEL PRODUCTION IN SERBIA Aleksandar Stanković, Goran Petrović, Jelena Mihajlović, Milica Stanković	
THE FUTURE OF E-PHARMACY TO PHARMA 5.0 Tatjana Stojadinovic, Marija Brankovic, Ilija Antovic, Lara Stojadinovic	
THE ROLE OF ARTIFICIAL INTELLIGENCE IN OPTIMIZING MARKETING STRATEGY Jelena Jevtić, Mira Vidaković, Tamara Jevtić	
15:30-17:30	Poster session II

BLOG IN BIOLOGY TEACHING AND STUDENTS' ATTITUDES TOWARDS THE USE OF THIS WEB TOOL IN EDUCATION Tihomir Lazarević, Vera Županec, Jelena Lazarević
THE IMAGE AND THE KERNEL OF A LINEAR COMBINATION OF TWO $\{K, s+1\}$ -POTENT MATRICES Marina Tošić
EXAMINATION THE ANTIOXIDANT ACTIVITY OF RED WINES FROM ŠUMADIJA REGION Danijela Stojković, Edina Avdović, Dušica Simijonović, Sandra Jovičić Milić, Marko Antonijević, Zoran Marković, Dušan Dimić
VALORIZATION OF MIXTURES OF STARCH-CONTAINING FOOD WASTE FROM STUDENT RESTAURANTS FOR BIOETHANOL PRODUCTION Vesna Vučurović, Jelena Filipović, Bojana Bajić, Damjan Vučurović, Siniša Dodić
JARAM PEAT BOG (MT.KOPAONIK, SERBIA) AS A BIODIVERSITY HOTSPOT – INSIGHTS INTO ALGAE, PLANTS AND INVERTEBRATES Sanja Šovran, Katarina Stojanović, Eva Kabaš, Dalibor Stojanović, Vukašin Gojšina, Ivana Živić, Miroslav Živić, Ana Knežević, Predrag Lazarević
ADVANCES AND CHALLENGES IN BIOTECHNOLOGICAL UTILIZATION OF EFFLUENTS FROM COLD-PRESSED OILS PRODUCTION Zorana Trivunović, Ida Zahović, Marko Zeljko, Jelena Dodić
ASSESSING THE CHEMISTRY EDUCATIONAL OUTCOMES USING DIGITAL ESCAPE ROOM. ANALYSIS OF GRAMMAR SCHOOL STUDENTS' ACHIEVEMENTS Filip Stašević, Milica Tasić, Jelena Đurđević Nikolić, Aleksandra Marković
CHEMICAL TREATMENT STRATEGIES FOR MYCOTOXIN REMOVAL: EFFICIENCY, MECHANISMS, AND APPLICATIONS Ivana Jevtć, Sandra Jakšić, Mirjana Antonijević Nikolić, Kosana Popović
THE IMPACT OF ARTIFICIAL INTELLIGENCE ON SCIENTIFIC RESEARCH: ADVANTAGES, CHALLENGES, AND ETHICAL DILEMMAS Milica Vulević
LICHENS COMMUNITY STRUCTURE ON THE ROCKS OF THE BEČIĆI BEACH, MONTENEGRO Gordana R. Aleksić, Tatjana R. Jakšić, Predrag S. Vasić, Slavica S. Ćirić, Gordana Subakov-Simić
INNOVATION SUPPORT IN SERBIA: MAPPING THE INSTITUTIONAL AND FINANCIAL INFRASTRUCTURE OF THE STARTUP ECOSYSTEM Nikola Radosavljević, Gordana Rendulić Davidović, Cariša Bešić, Snežana Dragičević
STRATEGIC MANAGEMENT OF SALES TEAMS AS A GUARANTOR OF SALES SUSTAINABILITY Zvonimir Filipovic, Natko Klanac, Sinisa Bilic
SIMULATION OF A LATHE MACHINE SERVICING USING A ROBOT Vojislav Vujičić, Nenad Mijajlović, Nedeljko Ducic, Veljko Aleksic, Ivan Milicevic

ANTI-INFLAMMATORY PROPERTIES OF CABERNET SAUVIGNON GRAPE-SKIN EXTRACT Danijela Stojković, Edina Avdović, Dušica Simijonović, Sandra Jovičić Milić, Dejan Milenković, Zoran Marković, Dušan Dimić
MALONDIALDEHYDE AS A BIOMARKER OF HEAT STRESS TOLERANCE IN WHEAT CULTIVARS Stefan Marković, Đorđe Minić, Katarina Marković, Nevena Djukić
CRITICISM OF THE EDUCATIONAL SYSTEM AND PEDAGOGICAL PARADIGMS THROUGHOUT HISTORY Muzafer Bibić
STRUCTURE-BASED DESIGN OF HYBRID INHIBITORS OF ACETYLCHOLINESTERASE AND BETA-SECRETASE 1 AS POTENTIAL BIFUNCTIONAL AGENTS FOR ALZHEIMER'S DISEASE THERAPY Žiko Milanović, Kristina Milisavljević
PERFORMANCE ANALYSIS OF SPECTRAL BANDS AND INDICES IN SEMANTIC SEGMENTATION OF SENTINEL-2 IMAGERY USING ATTENTION U-NET ARCHITECTURE Jelena Mitić, Milan Grujev
PATIENT-SPECIFIC INTERNAL FIXATION PLATES FOR MANDIBULAR SYMPHYSIS RECONSTRUCTION: A DIGITAL DESIGN APPROACH Jelena Mitić, Zoran Stamenković, Marta Petrović, Filip Petrović
ANALYSIS OF THERMAL CHARACTERISTICS OF AIR RIFLE BARRELS AFTER MULTIPLE FIRINGS Darko Janković, Ljubiša Tomić, Marina Simović Pavlović, Martin Ochsenhofer, Darko Vasiljević

20:30-00:00
Gala Dinner

Saturday, 7th June 2025	
10:30-13:00h	City tour
	<p>Faculty of Management organizes walking city tour with the guide.</p> <p>The tour includes visits to the visit of old town Herceg Novi and its fortresses Kanli Kula and Forte Mare.</p>