



POLITEHNICA UNIVERSITY OF TIMIȘOARA
FACULTY OF ENGINEERING HUNEDOARA
AND
UNIVERSITY „VITEZ”



would like to invite you to the

INTERNATIONAL CONFERENCE ON APPLIED SCIENCES

ICAS2025



29-31.05.2025



Faculty of Engineering
Hunedoara, Romania

COLLABORATORS:

- Ministry for Scientific and Technological Development, Higher Education and Information Society of the Republika Srpska
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Politehnica University Timisoara
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CONFERENCE PROGRAM

Hunedoara May 2025

13th INTERNATIONAL CONFERENCE OF APPLIED SCIENCE

Organizer:

POLITEHNICA UNIVERSITY OF TIMISOARA
FACULTY OF ENGINEERING HUNEDOARA

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 Ribaric Eda, Polytechnic of Rijeka
 Rogic Miroslav, University of Banja Luka
 Ruzarovsky Roman, Slovak University of Technology in Bratislava
 Shahari Nor Azni, Universiti Teknologi MARA Seremban Campus
 Simunovic Goran, University of Slavonski Brod
 Socalici Ana, Politehnica University Timisoara
 Solvang Bjoern, UiT The Arctic University of Norway
 Stoica Diana, Politehnica University Timisoara
 Szabo Gyla, Obuda University
 Szabo Marta, University Szent Istvan
 Sziebig Gabor, UiT The Arctic University of Norway
 Taubmann Hennry, C3 Prozess und Analysentechnik GmbH
 Tica Milan, University of Banja Luka
 Tirian Ovidiu, Politehnica University Timisoara
 Todici Mladen, University of Banja Luka
 Topcic Alan, Univerzitet u Tuzli
 Trisovic Natasa, University of Belgrade
 Velisek Karol, Slovak University of Technology in Bratislava
 Vranjes Biljana, University of Banja Luka
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 Znotka Jürgen, Westphalian University of Applied Science
 Zsoter Brigitta, University of Szeged

CONFERENCE PROGRAM		
Thursday, 29 May 2025		
TIME	PLACE	ACTIVITY
17:00 - 19:00 EEST	FIH	INTERNATIONAL PARTICIPANT REGISTRATION

CONFERENCE PROGRAM		
Friday, 30 May 2025		
TIME	PLACE	ACTIVITY
09:00 - 10:00 EEST	FIH	WELCOME
10:00 - 11:00 EEST	AULA MAGNA	CONFERENCE OPENING Ovidiu TIRIAN Tihomir LATINOVIC Gabriela-Alina DUMITREL Maria ȘTEFĂNIE Dan BOBOUȚANU Alin ȚAMBĂ Lőrincz SZÉLL Anişor PÂRVU
11:00 –12:00 EEST	AULA MAGNA	Plenary Scientific Lectures:
		Prof. Dr. Raul VICENTE ZAFRA FROM DATA TO INSIGHT: A PRIMER ON AI AND MACHINE LEARNING
		Lect. Dr. Eng. Radu Emanuil PETRUSE INTEGRATING IMMERSIVE REALITY TECHNOLOGIES IN MODERN MANUFACTURING PROCESSES – TRANSITION TOWARDS INDUSTRY 5.0

Scientific Parallel Sessions		
14:00-18:00 EEST 10 minutes / presentation	Speaker Title Authors	Section I MECHANICAL ENGINEERING Room B1-9
		Session Chairman: Sorin RAȚIU Daniela ALIC
1.	KOŠTÁL PETER	
	INFLUENCE OF THE VOLUME FILLING STRUCTURE OF 3D PRINTED PARTS ON THEIR STRENGTH	
	<i>KOŠTÁL PETER, DELGADO SOBRINO, HOLUBEK RADOVAN , MATÚŠOVÁ MIRIAM</i>	
2.	NEDELICU DORIAN	
	KINEMATIC ANALYSIS OF SLIDER-CRANK MECHANISM IN SOLIDWORKS	
	<i>DORIAN NEDELICU, TIHOMIR LATINOVIC, ANA SOCALICI, BILJANA VRANJES</i>	
3.	PAU TIBERIU DANIEL	
	SIMULATION OF LOSSES IN A GEARBOX WITH AND WITHOUT ANTI-FOAMING PROTECTION	
	<i>TIBERIU DANIEL PAU, ZOLTAN IOSIF KORKA, DORIAN NEDELICU</i>	
4.	LUCA ALEXANDRU-NICOLAE	
	ON THE INFLUENCE OF MECHANICAL PROPERTIES OF ALUMINUM ALLOYS ON THEIR RESISTANCE TO CAVITATION EROSION	
	<i>ILARE BORDEASU, CRISTIAN GHERA, CORNELIA LAURA SALCIANU, ROBERT STEFAN PARMANCHE, ALEXANDRU-NICOLAE LUCA, DORIN BORDEASU</i>	
5.	POPA MIHAELA	
	DRIVER POSTURE ANALYSIS USING CAPTIV T-SENS MOTION SENSORS	
	<i>ANCA SABĂU, ION IACHIM, MIHAELA POPA, ADRIAN EUGEN CIOABLĂ, TIMOTEI BOGDAN BACOS</i>	
6.	ALIC CARMEN INGE	
	BRIDGING ENGINEERING MECHANICS THEORY AND MECHANICAL ENGINEERING PRACTICE: A SIMULATION-DRIVEN AND INTERACTIVE LEARNING APPROACH	
	<i>DANIELA DELIA ALIC, CRISTINA CARMEN MIKLOS, IMRE ZSOLT MIKLOS, CARMEN INGE ALIC</i>	
7.	LESTYANSZKA SKURKOVA KATARINA	
	IMPLEMENTATION OF INFORMATION SYSTEMS IN THE MANAGEMENT	

	OF SMALL AND MEDIUM-SIZED ENTERPRISES <i>VANESSA PRAJOVA, KATARINA LESTYANSZKA SKURKOVA</i>
8.	LESTYANSZKA SKURKOVA KATARINA
	DIGITAL MATURITY OF SMEs <i>VANESSA PRAJOVA, KATARINA LESTYANSZKA SKURKOVA</i>
9.	ALIC DANIELA DELIA
	CFD STUDY ON THE AERODYNAMIC INTERACTIONS OF A TRUCK IN HIGHWAY TRAFFIC CONDITIONS <i>DANIELA DELIA ALIC, CARMEN INGE ALIC, LUISA IZABEL DUNGAN</i>
30 min	COFFEE BREAK
10.	ONYSKO OLEH
	COMMON ACCURACY PROBLEMS WHEN TURNING LARGE-PITCH THREADS <i>VITALII PANCHUK, OLEH ONYSKO, VOLODYMYR KOPEI, ROMAN FARYLIUK, ANATOLII VERKALETS</i>
11.	SOŁTYSIAK ROBERT
	DEVELOPMENT OF THE ROLLFORMING PROCESS FOR STORAGE RACK LEGS <i>ROBERT SOŁTYSIAK, TOMASZ GADEK, SŁAWOMIR CIEŚLAK, PIOTR WRONKOWSKI</i>
12.	NOVAC VALERIAN
	M4.0 TO ENHANCE THE SAFETY AND SUSTAINABILITY OF NAVAL OPERATIONS IN THE BLACK SEA BASIN <i>NOVAC VALERIAN, ABLAI VLADIMIR, RUSU EUGEN, SAMOILESCU GHEORGHE</i>
13.	NOVAC VALERIAN
	A TECHNICAL ANALYSIS REGARDING THE USE OF AUTONOMOUS SHIPS IN THE BLACK SEA BASIN <i>ABLAİ VLADIMIR, NOVAC VALERIAN, SAMOILESCU GHEORGHE, RUSU EUGEN</i>
14.	ZOȚ MĂDĂLINA ILEANA
	EXPERIMENTAL STUDY ON CO ₂ DETECTION IN INDOOR ENVIRONMENTS <i>MĂDĂLINA ILEANA ZOȚ, LUISA IZABEL DUNGAN, FRANCISC POPESCU, DORIN LELEA</i>
15.	ZOȚ MĂDĂLINA ILEANA
	SUSTAINABLE WASTE MANAGEMENT PRACTICES IN RAIL TRANSPORT <i>MĂDĂLINA ILEANA ZOȚ</i>

16.	GYALUȘ DEIAN
	ACOUSTIC COMFORT ASSESSMENT IN DIFFERENT HEAVY TRUCKS <i>DEIAN GYALUȘ, LUISA IZABEL DUNGAN, ADRIAN EUGEN CIOABLĂ, ALEXANDRU VALENTIN SPÂNU, DANIELA DELIA ALIC</i>
17.	PINCA-BRETOTEAN ALEXANDRU -MIHAI
	OFF-LINE MONITORING AND MEASUREMENTS OF TOOL WEAR WITH SINGLE POINT CUTTING EDGE <i>PINCA-BRETOTEAN ALEXANDRU MIHAI, MIKLOS IMRE ZSOLT, MIKLOS CRISTINA, PREDĂ COSMIN</i>
18.	MARINOVIĆ BUDIMIRKA
	APPLICATION OF INTERPRETATIVE STRUCTURAL MODELLING FOR IDENTIFYING CRITICAL FACTORS IN SUSTAINABLE ENERGY PLANNING HYDROPOWER PROJECTS <i>GORAN ORAŠANIN, BUDIMIRKA MARINOVIĆ, STOJAN SIMIĆ, UROŠ KARADŽIĆ</i>
19.	LIVIU MIHON
	HIGH CAPACITY INTERCOOLER'S MODELING FOR OPTIMIZATION AND IMPROVING PERFORMANCES <i>LIVIU MIHON, SORIN AUREL RATIU, DIANA MIRUNA ARMIONI</i>
20.	ARMIONI DIANA-MIRUNA
	APPLICATIONS OF BIOCHAR IN THE TREATMENT OF USED ENGINE OIL. CASE STUDY: IMPACT ON THE OIL VISCOSITY <i>ARMIONI DIANA-MIRUNA, AL AFIF RAFAT, RAȚIU SORIN-AUREL, GIDALI ADRIAN</i>
21.	RACKOV MILAN
	JUSTIFICATION OF THE USE OF UNIVERSAL HOUSING IN THE MANUFACTURING OF SINGLE-, TWO-, AND THREE-STAGE UNIVERSAL GEARED MOTOR REDUCERS WITH EXTERNAL HELICAL GEARS <i>KUZMANOVIĆ SINIŠA, RACKOV MILAN, MIKLOS CRISTINA, ALIC DANIELA, MIKLOS IMRE</i>
22.	RACKOV MILAN
	ADVANTAGES OF USING UNIVERSAL GEARED MOTOR REDUCERS WITH EXTERNAL HELICAL GEARS <i>KUZMANOVIĆ SINIŠA, RACKOV MILAN, KISS IMRE, RAȚIU SORIN, CIOATĂ VASILE</i>

Scientific Parallel Sessions		
14:00-17:30 EEST 10 minutes / presentation	Speaker Title Authors	Section II MATERIALS ENGINEERING Room B0-11
		Session Chairman: Erika ARDELEAN Imre KISS
1.	ARDELEAN MARIUS	
	BRIQUETTES WITH INCREASED REACTION SURFACE AREA	
	<i>EUGEN CRIȘAN, MARIUS ARDELEAN, GABRIELA MIHUȚ, VASILE PUȚAN</i>	
2.	BAJRAMOVIĆ EMIR	
	EXPERIMENTAL DETERMINATION OF THE MECHANICAL CHARACTERISTICS OF MICRO-REINFORCED CONCRETE	
	<i>HODŽIĆ DAMIR, GAČO DŽENANA, BOLIĆ EDVIN, BAJRAMOVIĆ EMIR, ČORALIĆ ISMAR</i>	
3.	BAJRAMOVIĆ EMIR	
	EXPERIMENTAL RESEARCH OF THE TENSILE PROPERTIES OF FRP REINFORCEMENT PRODUCED WITH E-GLASS FIBERS	
	<i>BAJRAMOVIĆ EMIR, SANIN DŽIDIĆ</i>	
4.	COJOCARIU NICOLETA	
	SURFACTANT INFLUENCE ON HIGH LOADED NANOFLUIDS: A STUDY ON THERMAL EFFUSIVITY	
	<i>GEORGE CĂTĂLIN TOFAN, CĂTĂLIN ANDREI TUGUI, NICOLETA COJOCARIU, ELENA IONELA CHERECHEȘ, DANA BEJAN, BOGDAN PRICOP, ALINA ADRIANA MINEA</i>	
5.	POPESCU AURELIAN	
	AMORPHOUS AS ₂ S ₃ CHALCOGENIDE FILMS APPLICATIONS FOR SURFACE PLASMON RESONANCE OPTICAL SENSORS	
	<i>POPESCU AURELIAN, SAVASTRU DAN</i>	
6.	HODZIC EMIR	
	TESTING OF FRICTION COEFFICIENT FOR M16 BOLTS CONNECTION FOR ALUMINUM STRUCTURES	
	<i>HODZIC EMIR, DZIDIC SANIN</i>	
7.	BUCUR FLAVIUS	
	SIMULATION OF THE AIR INTAKE PROCESS THROUGH THE DYNAMIC TRANSFER SYSTEM FOR LARGE-DISPLACEMENT ENGINES	
	<i>FLAVIUS BUCUR, CORNELIU BIRTOK BANEASA, ANA SOCALICI</i>	
8.	JOSAN ANA	

	ANALYSIS OF TECHNOLOGICAL PARAMETERS FOR CASTING AND SOLIDIFICATION OF BRAKE SHOES, USING PROCESS SIMULATION <i>JOSAN ANA, PINCA-BRETOTEAN CAMELIA, BUCUR FLAVIUS, SOCALICI ANA VIRGINIA</i>
9.	POENARU IULIA OLIVIA
	RESEARCH REGARDING ADVANCED DEGASSING OF STEELS FOR MANUFACTURING AUTOMOTIVE COMPONENTS <i>POENARU IULIA OLIVIA, ARDELEAN ERIKA, BUDIUL BERGHIAN ADINA, BIRTOK BANEASA CORNELIU, PUȚAN VASILE</i>
30 min	COFFEE BREAK
10.	CÂNDĂ LETIȚIA-ROMA
	RESEARCH ON COMBINED TECHNIQUES FOR SILVER RECOVERY FROM X-RAY FILMS AND RESIDUAL SOLUTIONS <i>CÂNDĂ LETIȚIA-ROMA, ARDELEAN ERIKA</i>
11.	BOBORA ADRIANA
	RESEARCH ON THE VALORIZATION OF SIDERITIC WASTE IN THE STEEL INDUSTRY <i>ADRIANA BOBORA, ANA SOCALICI</i>
12.	BACIU ANDREI-MIHAI
	EXPERIMENTAL STUDY ON CONCRETE INCORPORATING RECYCLED PLASTIC FROM BOTTLES AND DETERGENT CONTAINERS AS AGGREGATE REPLACEMENT <i>ANDREI-MIHAI BACIU, IMRE KISS</i>
13.	OSICEANU GEORGIANA
	EFFECT OF WATER SORPTION ON THE MECHANICAL PROPERTIES OF DIRECT AND CAD/CAM SUBTRACTIVE DENTAL RESIN COMPOSITES <i>OSICEANU GEORGIANA, POROJAN LILIANA, RADU NEGRU</i>
14.	RACU ANDREI
	COPPER PHTHALOCYANINE PIGMENT: SPECTROSCOPIC CHARACTERIZATION AND WATER-SPLITTING ELECTROCATALYTIC PROPERTIES <i>RACU ANDREI, TARANU BOGDAN, SZABADAI ZOLTAN, PASCARIU COSMIN, SAVA MIHAELA ANDREEA, ZOU MAO, PETCU FILIP ADRIAN, PAPADAKIS VASSILIS, BRIK MIKHAIL</i>
15.	MOȘOARCA CRISTINA
	STRUCTURE-PROPERTIES RELATIONSHIP IN MODIFIED SEASHELLS: A PERSPECTIVE FOR WATER PURIFICATION <i>ALEXANDRA IOANA BUCUR, MIHAI-COSMIN PASCARIU, RAUL ALIN BUCUR, CRISTINA MOSOARCA, RADU BANICA</i>

16.	MOȘOARCA CRISTINA
	PHOTOCATALYTIC ACTIVITY OF TRIVALENT BISMUTH IN CA-BI-O TERNARY SYSTEMS
	<i>FLORINA ȘTEFANIA RUS, CRISTINA MOSOARCA, RAUL BUCUR, MĂDĂLINA IVANOVICI, ADRIAN IONUȚ CADIȘ</i>
17.	BANICĂ RADU
	YBO ₃ SYNTHESIS STRATEGIES: A COMPARATIVE APPROACH
	<i>RADU BANICĂ, ŽELJKA ANTIĆ, MIROSLAV D. DRAMIĆANIN, CRISTINA MOȘOARCĂ, MIHAI MARGHITAȘ, MIRELA I. IORGA</i>
18.	BANICĂ RADU
	DEVELOPMENT OF Y ₂ SiO ₅ :Pr ³ /PDMS HYBRID MATERIALS FOR UV- ACTIVATED ANTIMICROBIAL APPLICATIONS
	<i>CRISTINA MOȘOARCĂ, RADU BANICĂ, ŽELJKA ANTIĆ, MIROSLAV D. DRAMIĆANIN, MIRELA I. IORGA, MARIUS DOBRESCU, DAN ROSU, RAMONA VETÉSI</i>

Scientific Parallel Sessions		
14:00-17:00 EEST 10 minutes	Speaker Title Authors	Section III FUNDAMENTAL SCIENCES COMPUTERS AND ELECTRICAL ENGINEERING Room B1-10
		Session Chairman: Manuela PĂNOIU Gabriel POPA
1.	LATINOVIC TIHOMIR	
	SMART CITIES AND IOT: REVOLUTIONIZING WIRELESS SENSOR NETWORKS THROUGH RENEWABLE ENERGY HARVESTING <i>TIHOMIR LATINOVIC, DORIAN NEDELCU, ADINA LUCIA POP VADEAN, VERNES VINCEVIC, LJILJA SIKMAN</i>	
2.	POPA GABRIEL NICOLAE	
	ON THE USE OF LOW VOLTAGE POWER FACTOR CONTROLLER IN TEXTILE INDUSTRY <i>DINIŞ CORINA MARIA, POPA GABRIEL NICOLAE, IAGĂR ANGELA</i>	
3.	POPA GABRIEL NICOLAE	
	ON CURRENTS ASYMMETRY PROTECTION FOR THREE-PHASE LOW VOLTAGE INDUCTION MOTORS <i>POPA GABRIEL NICOLAE, DINIŞ CORINA MARIA, IAGĂR ANGELA</i>	
4.	JITIAN SIMION	
	SPECTROPHOTOMETRIC DETERMINATION OF THE CONCENTRATIONS OF PYRANINE COMPONENTS IN A TERNARY MIXTURE <i>ADRIAN WEISZ, SORINA GABRIELA ŞERBAN, MARIA LAURA STRUGARIU, SIMION JITIAN</i>	
5.	CHIONCEL CRISTIAN PAUL	
	USE OF PHOTOVOLTAIC SYSTEM DESIGN SOFTWARE <i>ELISABETA SPUNEI, CRISTIAN PAUL CHIONCEL, DENIS IONUT GAGALUTA, DORIAN ANGHEL</i>	
6.	ANGHEL-DRUGĂRIN CORNELIA-VICTORIA	
	TRENDS IN RENEWABLE ENERGY GENERATION CAPACITY: A COMPREHENSIVE ANALYSIS OF THE ROMANIAN <i>CORNELIA-VICTORIA ANGHEL-DRUGĂRIN, CRISTIAN PAUL CHIONCEL</i>	
7.	PASZEK JUSTYNA	
	ACCURACY OF TERRAIN DETAIL LOCATION IN LOW-ALTITUDE PHOTOGRAMMETRY	

	<i>PASZEK JUSTYNA</i>
8.	PASZEK JUSTYNA
	LINEAR DISCONTINUOUS DEFORMATIONS AND BUILDING DAMAGES
	<i>PASZEK JUSTYNA</i>
20 min	COFFEE BREAK
9.	FÎȚĂ NICOLAE DANIEL
	ELECTROMECHANICAL SAFETY ASSESSMENT OF NATIONAL MINING SYSTEM – LUPENI MINE CASE STUDY
	<i>GHEORGHE EUGEN SAFTA, ALIN EMANUEL CRUCERU, MARCELA DRĂGHILĂ, FLORIN GABRIEL POPESCU, SORINA DANIELA STĂNILĂ, AURELIAN NICOLA, NICOLAE DANIEL FÎȚĂ</i>
10.	KRYKHIVSKA NATALIYA
	TECHNOLOGICAL ARCHITECTURE AND MATHEMATICAL MODELING OF DIGITAL SOLUTIONS FOR GREEN FINANCIAL PRODUCTS
	<i>KRYKHIVSKA NATALIYA, ROMASHKO OLEKSANDRA</i>
11.	MARYNCHAK LILIYA
	ECONOMIC ASSESSMENT OF POLLUTION IMPACT ON FORMATION OF SUSTAINABLE FINANCING STRATEGIES FOR ENTERPRISES
	<i>ANDRUSIV ULIANA, MARYNCHAK LILIYA, KNEYSLER OLGA, SPASIV NATALIYA, CHUCHUK YURIY</i>
12.	ARKHYPOVA LIUDMYLA
	BUILDING A MODEL OF THE DEPENDENCE OF THE LEVEL OF ATMOSPHERIC AIR POLLUTION BY DUST ON WEATHER FACTORS
	<i>ARKHYPOVA LIUDMYLA, ADAMENKO STANISLAV, ADAMENKO YAROSLAV, KACHALA TARAS, KACHALA SOFIA</i>
13.	BOLD NICOLAE
	STUDENT ASSESSMENT USING EDITING DISTANCE AND KEYWORDS MATCHING
	<i>DORU ANASTASIU POPESCU, NICOLAE BOLD, ALEXANDRU ION POPESCU</i>
14.	AL-SAMMARRAIE MUSTAFA
	ADVANCED MACHINE LEARNING MODELS FOR BANANA SWEETNESS CLASSIFICATION
	<i>MUSTAFA A. J. AL-SAMMARRAIE, BASHAR S. FALIH, NOOR A. JASIM, LUKASZ GIERZ, HUDAN. ALANI</i>
15.	VINCEVIC VERNES
	IMPORTANCE AND APPLICATION OF INFORMATION TECHNOLOGIES IN COMPANY BUSINESS
	<i>VINCEVIC VERNES, TIHOMIR LATINOVIC</i>

16.	KOŠTÁL PETER
	OFFLINE ROBOT PROGRAMMING - A TOOL FOR EFFICIENT ROBOT IMPLEMENTATION IN INDUSTRIAL PRACTICE
	<i>HOLUBEK RADOVAN , MATÚŠOVÁ MIRIAM , KOŠTÁL PETER, GÁL KORNEL</i>

CONFERENCE PROGRAM		
Saturday, 31 May 2025		
TIME	PLACE	ACTIVITY
09:00 - 12:00 EEST	FIH	SOCIAL EVENT visit at https://www.castelulcorvinilor.ro/