



**UNIVERSITATEA
LUCIAN BLAGA
— DIN SIBIU —**

Faculty of Engineering

Department of Industrial Engineering and Management
Department of Industrial Machines and Equipment

10th INTERNATIONAL CONFERENCE

**MANUFACTURING SCIENCE AND EDUCATION
-MSE 2021-**



**June 2 - 4, 2021
Sibiu, Romania**

MSE2021 Sponsors:

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MSE 2021 PROGRAM OVERVIEW

WEDNESDAY, JUNE 2nd, 2021 Bucharest Time (GMT+2h)

14:00 -16:00 **Meeting connection trial session**
[*Presentation Guidelines*](#)

THURSDAY, JUNE 3rd, 2021 Bucharest Time (GMT+2h)

10:00 – 10:30 **Opening Ceremony**
[*Meeting link*](#)

- Opening Remarks - Prof. Eng. Sever-Gabriel RACZ, dean of Faculty of Engineering
- Welcome speech - Prof. dr. habil. Sorin RADU, rector of Lucian Blaga University of Sibiu
- Industrial partner's welcoming – HR Specialist Andrei Luca, Continental Automotive Systems

10:30 – 12:30 **Plenary Session: Invited Keynote Speakers**
[*Meeting link*](#)

- 10:30-11:00, **Acad. Dorel BANABIC - Romanian Academy**
Recent Developments in The Simulation and Modelling of Sheet Metal Forming Processes
- 11:00-11:30, **Prof. Eng. Ian CAMPBELL, Ph.D. - Loughborough University**
How Design for Additive Manufacturing has Created New Product Design Opportunities
- 11:30-12:00, **Prof. Eng. Anca DRĂGHICI, Ph.D.- Politehnica University of Timisoara**
Multimedia Competencies for University Staff to Empower Manufacturing Science Education
- 12:00-12:30, **Prof. Eng. BÂLC Nicolae, Ph.D. - Technical University of Cluj-Napoca**
3D Printing Applications and Perspectives

12:30 – 14:00 **Break**

14:00 – 18:00 **Parallel Sessions**
(All sessions from S1 to S11)

FRIDAY, JUNE 4th, 2021 Bucharest Time (GMT+2h)

09:00 – 11:00 **Parallel Sessions**
(S10)

10:00 – 11:30 **Parallel Sessions**
(S7, S8 and S11)

11:00 – 13:00 **Workshop – Workplace Social Inclusion, Occupational Safety and Environmental Risk Assessment**

13:00 – 13:15 **Prof. Eng. Nicolae Florin COFARU**
Closing Remarks

MSE 2021 – parallel sections program

THURSDAY, JUNE 3rd, 2021

SESSION NO.	CONFERENCE TOPIC	SESSION LINK	SCHEDULE
S1	Design, Manufacturing and Management of Machine Elements, Technological Equipment and Systems	LINK	June the 3rd 14:00-17:00
S2	Management, Modelling and Monitoring of Manufacturing Processes	LINK	June the 3rd 14:00-16:45
S3	Advanced Manufacturing Technologies	LINK	June the 3rd 14:00-17:30
S4	Computer-aided technologies (CAD/CAM/CAE - CAX), Virtual Engineering and Reverse Engineering	LINK	June the 3rd 14:00-17:00
S5	Quality Engineering and Management	LINK	June the 3rd 14:00-16:45
S6	Transport Engineering and Road Vehicles, Traffic Management	LINK	June the 3rd 14:00-15:30
S7	Management and Economic Engineering	LINK	June the 3rd 14:00-16:00
S8	Mechanical Engineering, Mechatronics and Robotics	LINK	June the 3rd 14:00-16:30
S9	Engineering in Oil and Gas Field, Environmental Engineering	LINK	June the 3rd 14:00-17:15
S10	Safety and Health at Work	LINK	June the 3rd 14:00-18:00
S11	Academic Education and Management	LINK	June the 3rd 14:00-16:30

FRIDAY, JUNE 4th, 2021

SESSION NO.	CONFERENCE TOPIC	SESSION LINK	SCHEDULE
S7	Management and Economic Engineering	LINK	June the 4th 10:00-11:30
S8	Mechanical Engineering, Mechatronics and Robotics	LINK	June the 4th 10:00-11:30
S10	Safety and Health at Work	LINK	June the 4th 09:00-11:00
S11	Academic Education and Management	LINK	June the 4th 10:00-11:30

SESSION 1 - DESIGN, MANUFACTURING AND MANAGEMENT OF TECHNOLOGICAL EQUIPMENT AND SYSTEMS

THURSDAY, JUNE 3rd, 2021 14:00-17:00 Bucharest Time (GMT+2h)

Chairpersons: Mirko Blagojević, Mircea-Viorel Drăgoi

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Alexandru Ioan Rădoi, Cosmin Mihai Mirițoiu, Mihaela Bogdan, Marius Marinel Stănescu, Dumitru Bolcu and Ionut Daniel Geonea	DYNAMIC BEHAVIOUR OF COMPOSITES REINFORCED WITH NEEDLES FROM FIR TREES	28
2.	Alexandru Ioan Rădoi, Cosmin Mihai Mirițoiu and Claudiu Nicolicescu	COMPARISONS BETWEEN SOME COMPOSITES REINFORCED WITH CORN LEAVES AND DIFFERENT MATRICES	29
3.	Andrei Komjaty, Elena Stela Muncut and Lavinia Ioana Culda	STUDY ON THE INFLUENCE OF TECHNOLOGICAL PARAMETERS ON 3D PRINTING WITH SLA TECHNOLOGY	36
4.	Milan Vasić, Mirko Blagojević, Miloš Matejić and Ileana Ioana Cofaru	THE INFLUENCE OF THE CYCLOID DISC BEARING TYPE ON THE CYCLOIDAL SPEED REDUCER EFFICIENCY	55
5.	Dan Chicea, Mirela Maria Codescu, Alexandra Nicolae, Oleksandr Doroshkevych, Akhmed Islamov and Mirosław Kulik	NANOPARTICLES SIZE DISTRIBUTION ASSESSMENT DURING EARLY SYNTHESIS STAGES	75
6.	Paweł Woźniak, Stanisław Nosal and Agata Bieńczak	ANALYSIS OF TECHNOLOGY AND MACHINING DEVICES FOR CLEANING ONION IN THE FOOD INDUSTRY.	109
7.	Camil Lancea, Valentin-Marian Stamate, Lucia-Antoneta Chicos, Sebastian-Marian Zaharia, Alin-Mihai Pop, Ionut-Stelian Pascariu and George-Razvan Buican	DESIGN AND ADDITIVE MANUFACTURING OF BRUSHLESS ELECTRIC MOTOR COMPONENTS	110
8.	Robert-Marian Bleotu	THE STUDY AND OPTIMIZATION OF THE BEHAVIOUR AND ENERGY ABSORBED IN THE FRONTAL IMPACT BY A RECTANGULAR METAL WORKPIECE WITH AN ORIGAMI CORE	129
9.	Mircea-Viorel Dragoi, Dorin Mircea Roșca, Milena Flavia Folea and Gheorghe Oancea	MODULAR MILLING CUTTER WITH INNER-COOLING NETWORK	142
10.	Robert-Marian Bleotu and Cosmin Preda	MODELING AND IMPROVMENT OF THE TRICYCLE BRAKING SYSTEM FOR CONTROLLED SKIDDING	184
11.	Marius Bibu	IONIC NITRIDING OF CERTAIN PARTS PROTECTED ON NONFUNCTIONAL SURFACES WITH SPECIAL PAINTS. ELECTRIC ENERGY CONSUMED	199
12.	Milan Rackov, Ivan Knežević, Srđan Nikačević, Dijana Čavić, Mirjana Bojanić Šejat, Marko Penčić, Maja Čavić, Siniša Kuzmanović and Nicolae Florin Cofaru	THE RESULTS OF CHANGING THE CURRENT SOLUTION CONCEPT OF UNIVERSAL MOTOR GEAR REDUCERS WITH HELICAL GEARS	210

SESSION 2 - MANAGEMENT, MODELLING AND MONITORING OF MANUFACTURING PROCESSES

THURSDAY, JUNE 3rd, 2021 14:00-16:45 Bucharest Time (GMT+2h)

Chairpersons: Catalin Gabriel Dumitraş, Justyna Trojanowska, Liviu Roşca

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Constantin Stefan Ionescu, Aurel Lunguleasa, Anamaria Avram and Cosmin Gheorghe Spirchez	EVALUATION OF THE EFFICIENCY OF THE CONSOLIDATION TREATMENT WITH PARALOID B72, PERFORMED ON ARTWORKS WITH DEGRADED WOOD SUPPORT	12
2.	Andrea Deaconescu and Tudor Deaconescu	PLANE SURFACE LAPPING TECHNOLOGICAL PROCESSOR	18
3.	Ioana Iorga, Adrian Popescu, Cicerone Laurentiu Popa, Tiberiu Dobrescu and Costel Emil Cotet	RESEARCH REGARDING ASSEMBLY FLOW OPTIMIZATION OF WIRING HARNESS IN AUTOMOTIVE INDUSTRY	113
4.	Gures Dogan, Ilhan Mehmet, Dragos Florin Chitariu, Catalin Gabriel Dumitras and Vasile Ionut Crismaru	FEA MODELLING OF THE COMBINED HARD TURNING-ROLLING PROCESS USED AT BEARING RINGS	117
5.	Ramiro Sebastian Vargas Cruz and Viktor Gonda	SOLDER JOINT RELIABILITY BASED ON CREEP STRAIN ENERGY DENSITY FOR SAC305 AND DOPED SAC SOLDERS.	126
6.	Emilia Popescu, Adrian Popescu, Cicerone Laurentiu Popa, Tiberiu Dobrescu and Costel Emil Cotet	IDENTIFYING SPEEDS AND ACCELERATIONS FOR THE SYSTEMS WITHIN A DIDACTIC STAND OPERATED BY MEANS OF STEPPER MOTORS	127
7.	Hubert Kędziora and Justyna Trojanowska	APPLICATION OF SINGLE MINUTE EXCHANGE OF DIE TOOL IN A FOOD INDUSTRY COMPANY TO ELIMINATE WASTE	139
8.	Răzvan-George Răcheru, Lucia Adascalita, Dorin-Vasile Piţigoi and Emilia Bălan	ASPECTS REGARDING THE ORGANIZATION OF PRINTING PRODUCTION IN THE CONTEXT OF INDUSTRY 4.0	157
9.	Mihaela-Elena Ulmeanu, Cristian-Vasile Doicin, Liviu Roşca, Allan E W Rennie, Tom Abram and Andrei-Bogdan Nuţă	STUDY REGARDING THE INFLUENCE OF MATERIAL TYPE ON ECONOMIC OBJECTIVES IN MEX FABRICATION	169
10.	Negrau Dan Claudiu, Grebenisan Gavril, Gherghea Ion Cosmin and Anton Daniel	THE ADVANTAGES OF COMBINING 3D PRINTING WITH TURNING PROCESS. CASE STUDY	191
11.	Lucian Pavaloi and Florin Negoescu	A CRITICAL ANALYSIS AND OPTIMIZATION OF THE TESTING & VALIDATION ACTIVITIES INSIDE AN AUTOMOTIVE PARTS FACTORY	212

SESSION 3 - ADVANCED MANUFACTURING TECHNOLOGIES

THURSDAY, JUNE 3rd, 2021 14:00-17:30 Bucharest Time (GMT+2h)

Chairpersons: Livia Dana Beju, Stanislaw Legutko, Nagiț Gheorghe

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Livia Dana Beju and Stanislaw Legutko	KANBAN SYSTEMS IN THE CONTEXT OF THE ENTERPRISE SYSTEMS	1
2.	Livia Dana Beju	ALGORITHM FOR WORKCELLS DESIGN	2
3.	Laurentiu Slatineanu, Margareta Coteata, Oana Dodun, Gheorghe Nagit, Adelina Hrituc, Irina Besliu-Bancescu and Mihai Boca	LOCATING ERROR WHEN CLAMPING WORKPIECE BETWEEN CENTERS	40
4.	Carmen Cristiana Cazacu, Florina Chiscop and Dragos Alexandru Cazacu	USING IOT TO DYNAMICALLY TEST SMART CONNECTED DEVICES	72
5.	Florina Chiscop, Bogdan Costin Necula, Carmen Cristiana Cazacu and Cristian Eugen Stoica	USING DIGITAL TWINING IN FAST-FOOD PRODUCTION CHAIN SIMULATION	73
6.	Claudiu Babis, Andrei Dimitrescu, Ana Maria Alecusan and Marcela Babis	FEM ANALYSIS OF THE WELDING SEAMS GEOMETRY IN CASE OF FILLET WELDS	79
7.	Popa Dorinel and Morariu Cristin-Olimpiu	MODERN TECHNOLOGIES FOR MICRO DRILLING OF THE FUEL INJECTOR NOZZLE USED IN MOTOR VEHICLES - A REVIEW OF THE LITERATURE	158
8.	Nicolae Rosca, Mihaela Oleksik and Liviu Rosca	NUMERICAL-EXPERIMENTAL STUDY REGARDING THE SINGLE POINT INCREMENTAL FORMING PROCESS	185
9.	Nicolae Rosca, Mihaela Oleksik and Valentin Oleksik	EXPERIMENTAL STUDY REGARDING PA AND PE SHEETS ON SINGLE POINT INCREMENTAL FORMING PROCESS	186
10.	Florin Ciofu and Marius Bibu	CHANGES OF STRUCTURE AND PHYSICAL-MECHANICAL PROPERTIES IN ALLOY STEELS THERMOCHEMICALLY TREATED BY PLASMA NITRIDING	197
11.	Sorin Butuc, Simona Matei, Maria Stoicanescu and Aurel Crisan	PROCEDURE AND INSTALLATION FOR DETERMINING THE FILTERING CAPACITY	198
12.	Iliass El Mrabti, Abdelhamid Touache, Abdelhadi El Hakimi and Abderrahim Chamat	COMPARISON OF ARTIFICIAL NEURAL NETWORK MODEL AND RESPONSE SURFACE METHODOLOGY FOR SPRINGBACK PREDICTION	202
13.	Dan Dobrotă, Floin Ciofu and Valentin Petrescu	ALUMINUM-STEEL PLATING BY PRESS WELDING	204
14.	Mircea Florin Drăghici and Maria Stoicanescu	METHODS OF TEMPERATURE MONITORING IN LOW VOLTAGE ELECTRICAL CABLES USING COMPOSITE MATERIALS	211

SESSION 4 - COMPUTER-AIDED TECHNOLOGIES (CAD/CAM/CAE - CAX), VIRTUAL ENGINEERING AND REVERSE ENGINEERING

THURSDAY, JUNE 3rd, 2021 14:00-17:00 Bucharest Time (GMT+2h)

Chairpersons: Roman Ruzarovsky, Nenad Marjanovic, Radu Petrus

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	George Gabriel Chiriac and Catalin Gabriel Dumitras	OPTIMIZATION OF AUTOMOTIVE COOLING SYSTEMS CHARACTERISTICS USING FINITE ELEMENT ANALYSIS	13
2.	Richard Skýpala and Roman Ruzarovsky	VIRTUAL COMMISSIONING OF A AUTOMATED MANUFACTURING SYSTEMS — QUALITY-HANDLING STATION CASE STUDY	137
3.	Valentin-Cătălin Govoreanu, Adrian-Nicolae Țocu, Alin-Marius Cruceat and Dragoș Circa	A SPEECH RECOGNITION APPROACH FOR AN INDUSTRIAL TRAINING STATION	141
4.	Nenad Petrovic, Nenad Kostic, Vesna Marjanovic, Ileana Ioana Cofaru and Nenad Marjanovic	SIZING AND SHAPE OPTIMIZATION MATERIAL USE IN 10 BAR TRUSSES	144
5.	Alina Bianca Pop and Aurel Mihail Titu	APPLIED STUDY ON THE ROTATIONAL MOLDING AND PROCESSING TECHNOLOGY OF ROTATIONAL MOLDS	155
6.	Aurel Mihail Titu and Alina Bianca Pop	RESEARCH ON THE MACHINING PROCESS MODELING OF A ROTATIONAL MOLD USING CAM APPLICATIONS	156
7.	Mihai Popp, Gabriela Rusu, Sever Gabriel Racz and Valentin Oleksik	COMMON DEFECTS OF PARTS MANUFACTURED THROUGH SINGLE POINT INCREMENTAL FORMING	160
8.	Andrei-Bogdan Nuta, Mihaela-Elena Ulmeanu and Cristian-Vasile Doicin	DESIGN FOR 3D PRINTING: CASE STUDY FOR A COLD PLASTIC DEFORMATION MOULD	163
9.	Nicolae Florin Cofaru, Andrei Horia Branescu, Vesna Marjanovic, Mirko Blagojevic and Vladut Mihut	CONTRIBUTIONS REGARDING 3D MODELLING OF BIOMECHANICS OF THE FOOT	170
10.	Andrei Horia Branescu, Ioana-Codruța Lebădă, Vladut Mihut, Nenad Marjanovic and Milan Rackov	CAD MODELLING OF THE HUMAN FEMUR TAKING INTO ACCOUNT THE STRUCTURE OF THE BONE	171
11.	Florian Zach and Mircea Cristian Dutescu	THE TOPOLOGICAL OPTIMIZATION AND THE DESIGN FOR ADDITIVE MANUFACTURING OF A STEERING KNUCKLE FOR FORMULA SAE ELECTRIC VEHICLE	173
12.	Antonela Lungu, Antonius Androne, Lidia Gurău and Camelia Coșereanu	SIMULATING TRADITIONAL TEXTILE HERITAGE MOTIFS BY APPLYING CAD-CAM-CAE TOOL FOR FURNITURE DECORATION	208

SESSION 5 - QUALITY ENGINEERING AND MANAGEMENT

THURSDAY, JUNE 3rd, 2021 14:00-16:45 Bucharest Time (GMT+2h)

Chairpersons: Carmen Simion, Claudiu Kifor, Tiberiu Dobrescu

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Arik Sadeh and Cristina Feniser	UNCERTAINTY AND MANAGERS' SKILLS IN INDUSTRIAL INNOVATION PROCESSES	7
2.	Ioan Cristian Schuszter and Marius Cioca	IMPROVING SERVICE-LEVEL AGREEMENTS FOR CRITICAL SYSTEMS USING BIG DATA MONITORING TECHNIQUES	10
3.	Marius Gal and Lucian Lobont	INTELLECTUAL CAPITAL MANAGEMENT INCREASE IN OFFSHORING	25
4.	Andreea Simina Porancea-Răulea	THE NEED AND IMPLICATIONS OF THE HUMAN CAPITAL MANAGEMENT SYSTEM	38
5.	Raluca Dovleac and Andreea Ionica	CAN TEAM BUILDING BE A GAME CHANGER FOR STARTUPS?	63
6.	Nicoleta Stelea and Gavrilă Calefariu	DEVELOPMENT OF BRASOV SMES THROUGH PUBLIC FINANCING OF INNOVATIVE PRODUCTS OR SERVICES	69
7.	Claudiu Babis, Andrei Dimitrescu, Ana Maria Alecusan and Marcela Babis	INCREASING THE PERFORMANCE OF A SYSTEM BY CHANGING RELIABILITY	82
8.	Elif Ocakci, Joerg Niemann, Caius Luminosu and Alin Artene	QUALITY COST AND ECONOMIC ANALYSIS. A SYNTHESIS IN THE MANUFACTURING SYSTEMS	200
9.	Elif Ocakci, Joerg Niemann, Caius Luminosu and Ilie Taucean	AN OVERVIEW OF THE PRODUCTION CAPACITY AND OPERATIONAL OPTIMIZATION IN THE FRAMEWORK OF INDUSTRY 4.0	201
10.	Adina Sârb, Cristina Burja Udrea, Daniela Nagy-Onița, Liliiana Itul and Maria Popa	PREDICTION OF DEFECTS USING MACHINE LEARNING TECHNIQUES IN ORDER TO IMPROVE QUALITY MANAGEMENT SYSTEM - A CASE STUDY	203
11.	Carmen Simion	ASSESSMENT OF PROCESS STABILITY AND CAPABILITY IN A MANUFACTURING ORGANIZATION: A CASE STUDY	209

SESSION 6 - TRANSPORT ENGINEERING AND ROAD VEHICLES, TRAFFIC MANAGEMENT

THURSDAY, JUNE 3rd, 2021 14:00-15:30 Bucharest Time (GMT+2h)

Chairpersons: Marinela Inta, Lucian Lobont, Alexandru Racovitză

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Bogdan Radu and Alexandru Racovitză	BIOETHANOL PRODUCED FROM REGENERATIVE WOODEN RESOURCE TO OPERATE AN ORGANIC RANKINE CYCLE-WASTE HEAT RECOVERY SYSTEM IN CASE OF A TRACTOR PROPULSION DIESEL ENGINE: PRELIMINARY SIMULATION RESULTS	6
2.	Liliana Georgeta Popescu and Ovidiu Ioan Moldovan	STUDY REGARDING THE IMPROVEMENT OF THE POSTAGE TRANSPORT SYSTEM IN THE CITY OF SIBIU	31
3.	Cosmin Rus, Monica Leba, Nicoleta Negru, Razvan Marcus and Alin Costandoiu	AUTONOMOUS CONTROL SYSTEM FOR AN ELECTRIC ATV	99
4.	Carmen-Maria Purcar, Bădescu Mircea and Marinela Inta	ASPECTS REGARDING THE APPRECIATION OF REGULARITY AND PUNCTUALITY IN THE PUBLIC TRANSPORT SYSTEM FROM SIBIU, ROMANIA	176
5.	Ulpia Elena Botezatu and Olga Bucovetchi	SPACE TRAFFIC MANAGEMENT - KEY ISSUE FOR INDUSTRY 4.0	188
6.	Lucian Tarnu and Cristian Deac	CONSIDERATIONS REGARDING THE ANALYSIS AND INTERPRETATION OF TRAUMATIC LESIONAL MECHANISMS IN ROAD ACCIDENTS	213

SESSION 7 - MANAGEMENT AND ECONOMIC ENGINEERING

THURSDAY, JUNE 3rd, 2021 14:00-16:30 Bucharest Time (GMT+2h)

Chairpersons: Dănuț Dumitrașcu, Constantin Bungau, Eduard Edelhauser

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Dan Miricescu, Martin Heinisch and Laura Heinisch	COLLABORATIONS BETWEEN UNIVERSITIES AND THE BUSINESS ENVIRONMENT IN ROMANIA	3
2.	Niculina Alexandra Grigore and Claudiu Vasile Kifor	ARE ELECTRIC VEHICLES ECO-FRIENDLY PRODUCTS? A REVIEW FROM LIFE CYCLE AND SUSTAINABILITY PERSPECTIVE	41
3.	Nicu Pantelimon Rotaru and Nicolae Tașcă	MODERN TECHNOLOGIES USED IN HEALTH CRISIS MANAGEMENT DURING COVID-19 PANDEMIC	44
4.	Nicolae Tasca, Nicu-Pantelimon Rotaru and Lucian Lupu-Dima	MANAGERIAL COMMUNICATION IN THE VISION OF HUNEDOARA COUNTY MANAGERS	53
5.	Gina-Maria Moraru and Daniela Popa	POTENTIAL RESISTANCE OF EMPLOYEES TO CHANGE IN THE TRANSITION TO INDUSTRY 5.0	58
6.	Eduard Edelhauser and Lucian Lupu-Dima	A MANAGERIAL RESEARCH OF ONLINE EDUCATION IN THE PRIMARY AND SECONDARY ROMANIAN EDUCATION SYSTEM DURING COVID 19 CRISIS	62
7.	Vasile-Ibrian Caramidaru and Andreea Ionica	IN SEARCH OF SUSTAINABLE SOCIAL IMPACT: A SYSTEM DYNAMICS APPROACH TO MANAGING NONPROFIT ORGANIZATIONS OPERATING IN MULTI-PROJECT CONTEXTS	65
8.	Georgiana Grigoraș, Ionuț Cristian Mihalache and Eduard Edelhauser	TECHNICAL CONSIDERATION ON THE MANAGEMENT OF COASTAL AREAS REHABILITATION PROJECTS	68
9.	Panazan Oana, Gheorghe Cătălin and Gavrilă Calefariu	MODEL OF INDIRECT EXPENSES DISTRIBUTION FOR DETERMINING ECONOMIES OF SCALE	83
10.	Gina-Maria Moraru and Daniela Popa	THE IMPORTANCE OF RESPECTING THE PSYCHOLOGICAL CONTRACT BY MANAGERS	84

SESSION 7 - MANAGEMENT AND ECONOMIC ENGINEERING

FRIDAY, JUNE 4th, 2021 10:00-11:30 Bucharest Time (GMT+2h)

Chairpersons: Dan Miricescu, Cristian-Vasile Doicin, Martin Heinisch

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Gheorghe Cătălin and Panazan Oana	MODEL FOR INDUSTRIAL BUSINESS RELOCATION IN EASTERN EUROPE	88
2.	Monica Faur and Constantin Bungau	PROACTIVE RISK ASSESSMENT VIA FUZZY APPROACH IN A DECISIONAL PROCESS OF CONSIGNMENT STOCK PROGRAM ADOPTION	125
3.	Iulia Dumitrascu-Baldau, Alexandru Căpățînă and Dănuț Dumitru Dumitrașcu	FUNDAMENTAL ELEMENTS REGARDING THE APPROACH OF RISK MANAGEMENT WITHIN THE INTERNATIONAL PROJECTS WITH TEAMS IN THE VIRTUAL ENVIRONMENT	140
4.	Anzhelika Karaeva, Elena Magaril, Vincenzo Torretta and Elena Cristina Rada	PRELIMINARY CRITERIA FOR THE ENERGY SECTOR: ENVIRONMENTAL AND ECONOMIC EFFICIENCY OF INVESTMENT PROJECTS	182
5.	Elena Sima	MANAGING A BRAND WITH A VISION TO MARKETING 5.0	206
6.	Radu Stefan and George Carutasu	A VALIDATION MODEL FOR ETHICAL DECISIONS IN ARTIFICIAL INTELLIGENCE SYSTEMS USING PERSONAL DATA	214

SESSION 8 - MECHANICAL ENGINEERING, MECHATRONICS AND ROBOTICS

THURSDAY, JUNE 3rd, 2021 14:00-16:30 Bucharest Time (GMT+2h)

Chairpersons: Radovan Holubek, Sever-Gabriel Racz, Valentin Oleksik

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Radovan Holubek, Robert Bočák and Vanessa Prajová	NEW APPROACH OF DESIGNING ROBOTICS PRODUCTION SYSTEMS USING IMMERSIVE VIRTUAL REALITY ENVIRONMENT	11
2.	Ilie Octavian Popp	ANALYSIS OF THE EIGENFREQUENCIES OF THE BASALT MACHINE PARTS BY THE FEM	46
3.	Mihai Crenganis, Cristina Biris and Claudia Girjob	MECHATRONIC DESIGN OF A FOUR-WHEEL DRIVE MOBILE ROBOT AND DIFFERENTIAL STEERING	48
4.	Mihai Crenganis, Alexandru Bârsan, Melania Tera and Anca Chicea	DYNAMIC ANALYSIS OF A FIVE DEGREE OF FREEDOM ROBOTIC ARM USING MATLAB-SIMULINK SIMSCAPE	49
5.	Alexandru Bârsan, Sever-Gabriel Racz and Radu-Eugen Breaz	INCREMENTAL FORMING USING KUKA KR210-2 INDUSTRIAL ROBOT - RESEARCH REGARDING DESIGN RULES AND PROCESS MODELLING	64
6.	Iosif Adrian Marosan and George Constantin	DESIGN OF A MODULAR LOCOMOTION SYSTEM FOR AUTONOMOUS MOBILE ROBOTS	101
7.	Fabian Arun Panaite, Monica Leba, Marius Leonard Olar, Remus Sibisanu and Lilla Pellegrini	HUMAN ARM MOTION CAPTURE USING GYROSCOPIC SENSORS	102
8.	Iosif Adrian Marosan and George Constantin	WIRELESS COMMUNICATION BASED ON RASPBERRY PI AND CODESYS FOR MOBILE ROBOTS USING IOT TECHNOLOGY	107
9.	Cristina Pana, Cristian Vladu, Daniela Pătrașcu, Florina Besnea Petcu, Stefan-Irinel Cismaru, Andrei Trasculescu, Ionut Resceanu and Nicu Bîzdoacă	POSITION CONTROL FOR HYBRID INFINITE-CONTINUOUS HYPER-REDUNDANT ROBOT	111
10.	Michał Zawada, Stanisław Legutko, Jan Szczepaniak, Roman Rogacki, Jacek Wojciechowski and Sebastian Szymczyk	POSSIBILITIES OF USING AUTOMATIC SYSTEMS FOR CORRECTING THE POSITION OF WORKING UNITS OF TOOLS INCLUDING SOIL CULTIVATION	112

SESSION 8 - MECHANICAL ENGINEERING, MECHATRONICS AND ROBOTICS

FRIDAY, JUNE 4th, 2021 10:00-11:30 Bucharest Time (GMT+2h)

Chairpersons: Radu-Eugen Breaz, Adrian Pascu, George Constantin

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Ciprian Ion Rizescu, Andrei Ioan Plesea and Dana Rizescu	MODULAR TRANSPORT AND SORTING SYSTEM WITH OMNIDIRECTIONAL WHEELS	138
2.	Emilia Bălan, Liviu Berculescu, Răzvan-George Răcheru, Dorin Vasile Pițigoi and Lucia Adăscălița	PREVENTIVE MAINTENANCE FEATURES SPECIFIC TO OFFSET PRINTING MACHINES	152
3.	Besnea Daniel, Spanu Alina, Moraru Edgar, Ghebuta Florea and Mazen Elfarra	SILICONE RUBBER USED FOR LOWER LIMB PROSTHESES	159
4.	Racz Laszlo and Dudescu Mircea Cristian	MECHANICAL BEHAVIOR OF BEAMS WITH VARIABLE STIFFNESS OBTAINED BY 3D PRINTING	179
5.	Robert Florian Pecie, Mihai Olimpiu Tatar and Calin Rusu	STUDIES ON MOBILE ROBOTS FOR ALL TYPES OF TERRAIN	180
6.	Marton Gyarmati, Mihai Olimpiu Tatar and Francisc Kadar	CONTRIBUTIONS TO THE DEVELOPMENT OF SEARCH AND RESCUE MOBILE ROBOTS	181

SESSION 9 - ENGINEERING IN OIL AND GAS FIELD, ENVIRONMENTAL ENGINEERING

THURSDAY, JUNE 3rd, 2021 14:00-17:15 Bucharest Time (GMT+2h)

Chairpersons: Cristian Deac, Valentin Petrescu, Ion Foidas

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Cosmin Spirchez, Aurel Lunguleasa, Constantin Stefan Ionescu and Anamaria Avram	CALORIFIC PROPERTIES OF THE WOOD BIOMASS FROM SOME SOFTWOOD SPECIES	14
2.	Danut Grecea, Marin Silviu Nan, Cristian Aron, Daniel Cosmin Vitan and Bogdan Tomus	STUDY OF THE POSSIBILITIES TO ACHIEVE AN ENERGY MIX IN AREAS AFFECTED BY RESTRUCTURING OF LIGNITE EXPLOITATION	42
3.	Diana-Andreea Lupu	CASE STUDIES - RESEARCH AND TECHNOLOGICAL SOLUTIONS TO PREVENT SAND PRODUCTION IN THE GAS WELLS FROM THE GETIC DEPRESSION	51
4.	Diana-Andreea Lupu and Dan-Paul Stefanescu	NATURAL GAS HYDRATES VS. INDUCED DYSFUNCTIONS IN THE HYDROCARBON EXTRACTION PROCESS	54
5.	Ion Foidas and Florin Marius Barsan	COMPARATIVE ANALYSIS OF NATURAL GAS PIPELINE INTERCONNECTIONS	56
6.	Dan-Paul Stefanescu	PHYSICAL - CHEMICAL INTERACTION OF INJECTION WATERS WITH DEPLETED GAS FORMATIONS	80
7.	Lungu Ionut Andrei, Dinu Florinel, Maria Stoicescu, Silviu Suditu and Rosu Ioana	PRO AND CON FEATURES REGARDING UNDERGROUND GAS STORAGE IN DEPLETED RESERVOIRS VERSUS SALINE DEPOSITS	89
8.	Ioana-Cornelia Mitrea, Mihail Valentin Batistatu and Ionut Lungu	THE PETROLEUM SYSTEMS FROM THE WESTERN BLACK SEA BASIN, ROMANIA	98
9.	Gheorghe Branoiu, Florinel Dinu, Maria Stoicescu, Iuliana Ghetiu and Doru Stoianovici	HALF A CENTURY OF CONTINUOUS OIL PRODUCTION BY IN-SITU COMBUSTION IN ROMANIA – CASE STUDY SUPLACU DE BARCAU FIELD	121
10.	Ioana Petre and Monica Emanuela Stoica	ASPECTS REGARDING THE REDUCTION OF FUGITIVE METHANE EMISSIONS FROM THE VALVES	123
11.	Iulian Alexandru Bratu and Lucian Dinca	USING GIS FOR MANAGEMENT OF CONFLICTS IN NATURAL PROTECTED AREA IN CINDREL MOUNTAINS	130
12.	Monica Emanuela Stoica	GREENHOUSE GASES ASSESSMENT IN THE CONTEXT OF THE COVID-19 PANDEMIC	132
13.	Gheorghe Branoiu, Lazar Avram, Iuliana Ghetiu, Silvian Suditu and Stefan Pelin	DECIPHERING THE RESERVOIR ROCKS LITHOLOGY BY MINERALOGICAL INVESTIGATIONS TECHNIQUES FOR AN OILFIELD IN SOUTH-WEST ROMANIA	135

SESSION 10 - SAFETY AND HEALTH AT WORK

THURSDAY, JUNE 3rd, 2021 14:00-16:00 Bucharest Time (GMT+2h)

Chairpersons: Lucian-Ionel Cioca, Elena Cristina Rada, Roland-Iosif Moraru

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Gabriel Dragos Vasilescu, Robert Laszlo, Attila Kovacs, Edward Gheorghiosu, Daniela Carmen Rus, Ilie Ciprian Jitea, Cristian Rădeanu, Ștefan Ilici, Bogdan Garaliu-Bușoi and Claudia Miron	EVALUATION OF THE EXPLOSION RISK SPECIFIC TO THE PREPARATION AND STORAGE ACTIVITY OF THE SIMPLE EXPLOSIVE MIXTURE TYPE ANFO	4
2.	Haralambie Vochitoiu, Camelia Lavinia Unguraș, Olga Miclea, Bogdan Gaita, Ioan Rus, Gabriel Ioan Ilcea, Gabriel Dragoș Vasilescu, Nicolae Iliăș, Dan Dumitru Pintilie and Ciprian Mateiu	INNOVATIVE METHODOLOGICAL TOOL FOR OCCUPATIONAL RISK QUANTIFICATION	5
3.	Martin Heinisch, Laura Heinisch and Dan Miricescu	THE ROLE OF AN INNOVATIVE DISINFECTION SYSTEM BASED ON SILVER AND HYDROGEN PEROXIDE IN INFECTION PREVENTION	8
4.	Vlad Andrei Darabont and Doru Costin Darabont	CONSIDERATIONS ON ERGONOMIC ISSUES IN PHYSIOTHERAPY ACTIVITY	21
5.	Roland Iosif Moraru, Gabriel Bujor Babut, Mihai Popescu-Stelea and Zoltan Gyoza Szabo	SHIFTING TOWARDS PROACTIVE OHS RISK MANAGEMENT IN ROMANIAN ORGANIZATIONS: SYSTEMATIC BENCHMARKS	26
6.	Adam Górný	APPLICATION OF TECHNICAL MEASURES TO IMPROVE THE WORK SAFETY - SYSTEMIC GUIDELINES	30
7.	Haralambie Vochitoiu, Camelia Lavinia Unguras, Narcis Nicolae Popa, Dan Dumitru Pintilie, Philippe Yves Daniel Hueber, Anton Darsy and Gabriel Ioan Ilcea	ASSESSMENT OF THE RISK OF LOSS OF HEARING GENERATED BY THE HAZARDOUS EXPOSURES DURING THE WORK PROCESS	33
8.	Sorin Simion, Angelica Nicoleta Călămar, Alexandru Florin Simion, Marius Kovacs and Lorand Toth	EXPOSURE OF WORKERS TO OCCUPATIONAL NOXAE	45

THURSDAY, JUNE 3rd, 2021 16:00-18:00 Bucharest Time (GMT+2h)

Chairpersons: Larisa Ivascu, Adam Górný, George Artur Gaman

[LINK MEET](#)

9.	Nicolae Ioan Vlasin, Emilian Ghicioi, Vlad Mihai Pasculescu, Marius Simion Morar and Laurentiu Munteanu	VIRTUAL IGNITION OF A METHANE LEAK BY ELECTRIC SPARK	60
10.	Dan Chicea, Cristian Leca and Sorin Olaru	SIZING PARTICLES IN GASES BY AN ADVANCED OPTICAL PROCEDURE	76
11.	Diana Petronela Burduhos-Nergis, Adrian Marius Jurca, Catalin Mihai Popa, Ramona Cimpoesu, Doru Costin Darabont and Costica Bejinariu	PHOSPHATING DEPOSITIONS FOR EQUIPMENT'S USED IN EXPLOSIVE ATMOSPHERES	86
12.	Radu Armand Haraga, Alin Marian Cazac, Monica Nicoleta Lohan, Anisoara Corabieru and Stefan Lucian Toma	SELECTION OF PERSONAL PROTECTIVE EQUIPMENT - A COMPLEX ISSUE OF MULTI-CRITERIA ANALYSIS	87
13.	Mihaela Paraian, Emilian Ghicioi, Niculina Vatavu, Dan Gabor and Sorin Iuliu Mangu	THE RISK OF STATIC ELECTRICITY AT HANDLING DIESEL FUEL	90
14.	Romeo Gabriel Chelariu, Costica Bejinariu, Mihai Adrian Bernevig, Stefan Lucian Toma, Alin Marian Cazac and Nicanor Cimpoesu	ANALYSIS OF NON-SPARKING METALLIC MATERIALS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES	95
15.	Mihaela Rotaru	HOW TO KEEP YOUR STAFF HEALTHY IN THE EDUCATIONAL SECTOR?	116
16.	Gabriela Caldarescu, Laura Florea, Gheorghe Nagit and Mihai Adrian Bernevig	THE IMPORTANCE OF PERFORMANCE INDICATORS IN OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT - A REVIEW	124

SESSION 10 - SAFETY AND HEALTH AT WORK

FRIDAY, JUNE 4th, 2021 09:00-11:00 Bucharest Time (GMT+2h)

Chairpersons: Nicolae Ungureanu, Sebastian Kot, Doru-Costin Darabont

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Nicoleta-Paula Neag, Alin Gaureanu, Nicoleta L. Calciu and Matei Tamasila	SURVEYING WORKERS PERCEPTIONS IN THE AUTOMOTIVE INDUSTRY - A PREVENTIVE TOOL FOR MONITORING OSH MEASURES	134
2.	Hanna Shevchenko, Borys Burkynskiy and Mykola Petrushenko	RECREATION AND WORK IN AN EMERGING COUNTRY: A COMBINATION OF REGULATORY AND MOTIVATIONAL INFLUENCES	148
3.	Emilia Grigorie, Nicolae-Daniel Fiță, Dragos Pasculescu and Vlad Mihai Pasculescu	ASSESSING (AUDITING) THE CONFORMITY WITH LEGAL AND OTHER PROVISIONS IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY OF CRITICAL POWER INFRASTRUCTURES	150
4.	Dragoș Păsculescu, Nicolae Daniel Fiță, Emilia Grigorie, Florin Gabriel Popescu and Alina Handra	RISKS ASSESSMENT IN TERMS OF OHS FOR CRITICAL POWER INFRASTRUCTURES IN CONTEXT OF INDUSTRIAL SAFETY	151
5.	Iudit Bere Semeredi, Mihai Eugen Valceanu, Diana Mihaela Nica, Ella Anca Sipetan and Romulus Corlan	INDOOR AIR QUALITY MONITORING AND HUMAN PERCEPTION SURVEY ON AIR QUALITY IN PUBLIC BUILDINGS IN TIMIȘOARA	178
6.	Diana Mariana Cocarta, Anca Cristina Gogoncea and Constantin Streche	AN IMPORTANT CHALLENGE IN OCCUPATIONAL HEALTH: SAMPLING INDOOR AIRBORNE VIRUSES	192
7.	Adrian Ispasoiu, Ioan Milosan, Dorin Senchetru, Teodor Machedon-Pisu, Ana Maria Florina Ispasoiu and Cristina Meita	STUDY ON THE APPLICATION OF THE QEC (QUICK EXPOSURE CHECK) ON THE ERGONOMIC RISKS ASSESSMENT IN THE INDUSTRIAL FIELD	193
8.	Mureșan Petru Iulian, Milosan Ioan, Machedon-Pisu Teodor, Reit Adrian, Senchetru Dorin and Oancea Gheorghe	USING NEW DIGITAL TECHNOLOGIES IN EMPLOYEE TRAINING TO AVOID OCCUPATIONAL ACCIDENTS IN THE INDUSTRY	194

SESSION 11 - ACADEMIC EDUCATION AND MANAGEMENT

THURSDAY, JUNE 3rd, 2021 14:00-16:30 Bucharest Time (GMT+2h)

Chairpersons: Davide Capperucci, Carmen Dușe, Ilaria Salvadori

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Mihaela Laura Bratu and Lucian-Ionel Cioca	IS ORGANIZATIONAL SKILL A WILL OR A WAY TO A SUCCESSFUL LIFESTYLE AND WORKSTYLE?	90
2.	Daniel Mara and Daniel Hunyadi	STIMULATING TEACHERS' PARTICIPATIONS IN LIFELONG TRAINING PROGRAMS	95
3.	Daniel Mara	INTERCULTURAL COMPETENCES OF STUDENTS-STRATEGIC APPROACHES	116
4.	Davide Capperucci and Ilaria Salvadori	LEARNING AND PERFORMANCE EVALUATION IN DISTANCE HIGHER EDUCATION: A CASE STUDY DURING THE COVID-19 PANDEMIC	124
5.	Alexandru Olteanu and Claudiu Vasile Kifor	DEVELOPMENT OF A CONCEPTUAL MODEL OF SUSTAINABLE BUILDING FROM A UNIVERSITY	134
6.	Elena Lucia Mara	DEVELOPING ADULT MOTIVATION FOR CONTINUOUS TRAINING	148
7.	Alina Georgeta Mag, Sandra Sinfield, Tom Burns and Sandra Abegglen	THE JOY OF TEACHING AND LEARNING IN ACADEMIA - TEACHERS' PERSPECTIVES FROM THREE COUNTRIES	150
8.	Daniela Maria Cretu	EMBEDDING BULLYING RELATED LEARNING IN THE CURRICULUM FOR INITIAL TEACHER EDUCATION: A POSSIBLE APPROACH	151
9.	Lia Alexandra Baltador, Valentin Grecu and Alma Pentescu	USING DESIGN THINKING TO REDESIGN THE EDUCATIONAL EXPERIENCE	178
10.	Anca Elena Vișan, Mihai-Victor Zerbes and Ștefania Kifor	INTELLIGENT LEARNING ENVIRONMENT FOR BETTER STUDENT'S ACADEMIC PERFORMANCE	192

SESSION 11 - ACADEMIC EDUCATION AND MANAGEMENT

FRIDAY, JUNE 4th, 2021 10:00-11:30 Bucharest Time (GMT+2h)

Chairpersons: Anca Draghici, Daniela Maria Cretu, Alina Georgeta Mag

[LINK MEET](#)

Paper No.	Authors	Paper title	Paper ID
1.	Petre Ioana	A BRIEF ANALYSIS OF ELEARNING EDUCATIONAL SERVICES IN PANDEMIC CRISIS	193
2.	Maria Elena Boatca, Anca Draghici and Alin Gaureanu	HOME ERGONOMICS - LESSONS LEARNED	153
3.	Rebecca-Clara Raulea and Dănuț-Dumitru Dumitrașcu	QUALITY MANAGEMENT ASSESSMENT WITHIN ERASMUS+ PROGRAMME, ACCORDING TO THE PERCEPTION OF THE PARTICIPATING STUDENTS	154
4.	Felicia Banciu and Anamaria Feier	ASPECTS REGARDING SKILLS AND EDUCATION RELATED TO INDUSTRY 4.0	183
5.	Carmen Duse and Dan Duse	BRIEF CONSIDERATION ON THE USE OF THE THEATER OF OPPRESSED IN ANTI-BULLYING ACTIVITIES IN SCHOOLS	207

Workshop - *Workplace Social Inclusion, Occupational Safety and Environmental Risk Assessment*

FRIDAY, JUNE 4th, 2021 11:00-13:00 Bucharest Time (GMT+2h)

Chairpersons: Diana Cocârță, Maria Cruz Lopez Escalante, Massimiliano Fabbicino, Lucian-Ionel Cioca

[LINK MEET](#)

Closing Remarks

FRIDAY, JUNE 4th, 2021 13:00-13:15 Bucharest Time (GMT+2h)

Prof. Eng. Nicolae Florin COFARU

[LINK MEET](#)