

"GHEORGHE ASACHI"
TECHNICAL UNIVERSITY OF IASI, ROMANIA

# INTERNATIONAL CONFERENCE PROGRAM

MAY 15-17, 2024 IASI, ROMANIA



Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity

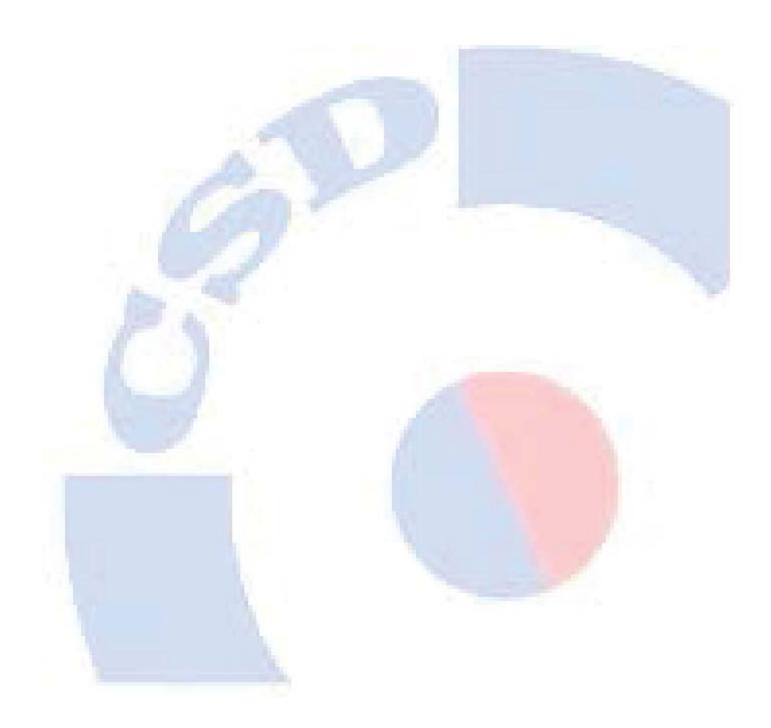
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## Welcome to CSD2024, wishing you a successful conference!















### 7<sup>th</sup> International Conference of the Doctoral School

"Gheorghe Asachi" Technical University of Iasi

Excellence in Doctoral Studies through Innovation,
Convergence and Interdisciplinarity

### **CONFERENCE PROGRAMME**

May 15 – 17, 2024 IAŞI, ROMÂNIA







### **Organizers**

- · "Gheorghe Asachi" Technical University of Iasi, Romania
- Council for Doctoral University Studies, CSUD
- Council of Doctoral School, CSD

#### Partner:

· "Gheorghe Asachi" University Foundation, Iasi, Romania

### **Conference Sections**

- Section 1. Interdisciplinary studies (held onsite and includes papers from all doctoral fields)
- Section 2. Computers and information technology; Systems engineering Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology (held online)
- Section 3. Chemistry; Chemical engineering; Environmental engineering (held online)
- Section 4. Civil engineering and installations (held online)
- Section 5. Mechanical engineering; Industrial engineering;
   Materials engineering; Engineering and management (held online)
- Workshop: Applications of artificial intelligence in the industrial domains (held onsite)







### Organizer's Message

### Dear PhD Students, Dear Colleagues and Guests, Dear Participants,

The seventh edition of the International Conference of the Doctoral School at the "Gheorghe Asachi" Technical University of Iasi (TUIASI) aims to create a beneficial environment for PhD students from Technical Universities in Romania and abroad to share their research findings, exchange ideas, and establish new collaborations. It also seeks to refine their theoretical and methodological approaches, promote interdisciplinary research, and foster continuous development. Scheduled for three days from May 15th to May 17th, 2024, the conference will feature five panel sessions where PhD students can present and discuss their research papers. Additionally, the conference program will include plenary presentations by esteemed professors from universities closely linked with TUIASI.

The conference endeavors to bring together oral presentations covering various pertinent topics related to the university's thirteen doctoral fields: Chemistry; Computers and Information Technology; Chemical Engineering; Civil Engineering and Installations; Electrical Engineering; Electronic Engineering, Telecommunications, and Information Technologies; Energy Engineering; Industrial Engineering; Materials Engineering; Mechanical Engineering; Environmental Engineering; Systems Engineering; and Engineering and Management.

By bridging different scientific doctoral fields, promoting innovation through interdisciplinary collaboration, and focusing on internationalization, this event aims to create an intellectual crossroads where new ideas and scientific progress can emerge. This approach is intended to shape doctoral programs by emphasizing the training of PhD students in research and equipping them with core competencies for immediate application in societal institutions, contributing to the pursuit of a sustainable economy. For PhD students in the early stages of their doctoral studies, the conference provides an opportunity to prepare for the initial contributions to their chosen scientific field. Meanwhile, for those in the later stages, the conference serves as an essential step towards entering the job market.

Please visit the conference website at: https://conferinta-csd.tuiasi.ro/

Welcome to CSD2024, wishing you a successful conference!

Honorary President,
Professor **Dan CAŞCAVAL**Rector TUIASI







#### **Conference committees**

#### HONORARY PRESIDENT

Prof.dr. Dan Cașcaval, RECTOR, "Gheorghe Asachi" Technical University of Iasi, Romania

#### **PRESIDENT**

Prof.dr. Maria Gavrilescu, "Gheorghe Asachi" Technical University of Iasi, Romania

#### **CO-PRESIDENT**

Prof.dr. Alexandru Sălceanu, "Gheorghe Asachi" Technical University of Iasi, Romania

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- Prof.dr. Giullia Loretta Batali, Technical University of Civil Engineering of Bucharest, Romania
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- Prof.dr. Mihai Gavrilaş, Gheorghe Asachi Technical University of Iasi, Romania
- Prof.dr. Liviu Goras, Gheorghe Asachi Technical University of Iasi, Romania
- Prof.dr. Nicolae Hurduc, Gheorghe Asachi Technical University of Iasi, Romania
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- Prof.dr. Dumitru Marcel Istrate, Gheorghe Asachi Technical University of Iasi, Romania







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- Prof.dr. Janus Mindykowski, Gdynia Maritime University, Poland
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- Prof.dr. Corneliu Munteanu, Gheorghe Asachi Technical University of Iasi, Romania
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- Prof.dr. Radu-Emil Precup, Politehnica University of Timişoara, Romania
- Prof.dr. Alexandru Sălceanu, Gheorghe Asachi Technical University of Iasi, Romania
- Prof. dr. Neculai Eugen Seghedin, Gheorghe Asachi Technical University of Iasi, Romania
- Prof.dr. Irina Volf, Gheorghe Asachi Technical University of Iasi, Romania

#### **EXECUTIVE COMMITTEE**

- Prof.dr. Maria Gavrilescu
- Prof.dr. Maricel Adam
- Prof.dr. loan Doroftei
- Prof.dr. Florin Leon

#### SECRETARIAT

- Eng. Cristina Nagiţ (doctorat@tuiasi.ro)
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- PhD Student Nicoleta Cojocariu (Section 1) (nicoleta.cojocariu@student.tuiasi.ro)
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- PhD Student Adriana-Mariana Asoltanei (Section 3) (adriana-mariana.asoltanei@student.tuiasi.ro)
- PhD Student Andrei Huṭanu (Section 4) (andrei.hutanu2@student.tuiasi.ro)
- Assist.prof.dr. Elena Ionela Cherecheş (Section 5) (elena-ionela.chereches@academic.tuiasi.ro)







#### **General information**

#### About our university

"Gheorghe Asachi" Technical University of lasi is one of the most prestigious universities in Romania, being classified as an advanced research and education university (according to the Order of Ministry of Education and Research, MECTS nr. 5262/2011), whose mission is to carry out specific activities of creation, innovative capitalization of knowledge and its transfer to society in the fundamental fields of engineering sciences, architecture and urbanism, as well as in interdisciplinary and complementary fields, in the local community, at regional, national and international levels.

"Gheorghe Asachi" Technical University of Iasi has the oldest tradition in engineering education in Romania, initiated by Gheorghe Asachi, a representative of the Romanian Enlightenment, and established within the Greek Academy in Iasi (Royal Academy) on November 15, 1813, by the decree signed by Scarlat Calimachi, the ruler of Moldova at that time. This school can be considered the nucleus of higher technical education in Moldova, continuing education between 1834-1847 at the Mihăilean Academy and later at the University of Iasi in the School of Industrial Electricity (since 1910), the Electrotechnical Institute (1912) and the Department of Technological Chemistry (since 1911).

On November 7, 1912, the Faculty of Sciences of the University of Iasi was transformed into an independent department of higher education for teaching electrical engineering, applied chemistry and agricultural sciences. This event represents the "birth certificate" of what later became the Polytechnic Institute of Iasi ("Gheorghe Asachi" Technical University of Iasi today), respectively of the Faculty of Electrical Engineering, Energy and Applied Informatics and the Faculty of Chemical Engineering and Environment Protection.

A crucial moment in the history of our university is the Decision no. 205.660/03.12.1937 of the Ministry of National Education, when, the technical higher education is taken out from the aegis of the University of Iasi by the establishment of the "Gheorghe Asachi" Polytechnic School of Iaşi, as a distinct institution of engineering higher education, the only higher education institution authorized to grant from that date the title of engineer. The University began its activity on October 1, 1938, within three faculties: Industrial Chemistry, Electrical Engineering and Agricultural Sciences, of which the first two were based in Iasi and the third in Chisinau. The first diplomas were issued in 1940.

Through the education reform of 1948, the "Gheorghe Asachi" Polytechnic Institute was established in Iaşi, with four faculties and ten specializations: Industrial Chemistry (mineral chemistry, leather), Civil Engineering, Electrical Engineering, Mechanics (thermodynamic engineering, hydrotechnics, machine building, aero-naval engineering) with a duration of studies of five years. The Polytechnic Institute of Iaşi functioned until 1990 with 6 faculties and many newly created specializations. In 1990, four new faculties were established, coming from the faculties of Electrical Engineering and Mechanics.

In 1993 the name of "Polytechnic Institute of Iasi" was replaced by "Gheorghe Asachi" Technical University of Iasi (TUIASI). In 2004 the Architecture department within the Faculty of Constructions and Installations became the "G.M. Cantacuzino" Faculty of Architecture and since then 11 faculties operate within TUIASI. Today, TUIASI develops programs for undergraduate, master, doctoral, postdoctoral studies and scientific research in interdisciplinary research areas, out of which 10 areas were classified in category A, according to Law 1/2011 and HG 789/2011. The doctoral activity is organized within an interdisciplinary doctoral school including 13 doctoral fields established according to national and international research priority areas.







#### **About the Conference program**

The 6th edition of the International Conference of the Doctoral School of IOSUD "Gheorghe Asachi" Technical University of Iasi (CSD2023), which is organized under the generic "Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity" is programmed during May 17-19, 2022 in hybrid format, having 4 sections as videoconferences and an interdisciplinary section, held on-site, which includes papers from all doctoral fields (a fee is not charged).

During the event, plenary conferences are scheduled, lasting 40 minutes each (including discussions), as well as oral presentations lasting 15 minutes each (including discussions). The papers received in the frame of five planned sections will be held on each conference day in parallel sessions, each sessions being organized in blocks, separated by coffee breaks or lunch, coordinated by a chairperson.

The on-line sections of the Conference will be held on the Google Meet platform, at links which will be communicated to the attendees and guests before conference start, on the conference website.

#### **VERY IMPORTANT**

The authors who will hold oral presentations in both onsite and online format are invited to log in at the beginning of the session in which the presentation is scheduled in order to avoid unexpected breaks during the session.

#### All oral presentations will be given in English.

A PowerPoint support for your presentation adequate for maximum **15 minutes** would serve as visual aids that can enhance audience engagement and ensure a better understanding of your speech!

**Contact persons:** 

Prof.dr. Maria Gavrilescu

mgav@tuiasi.ro; +40 745528184

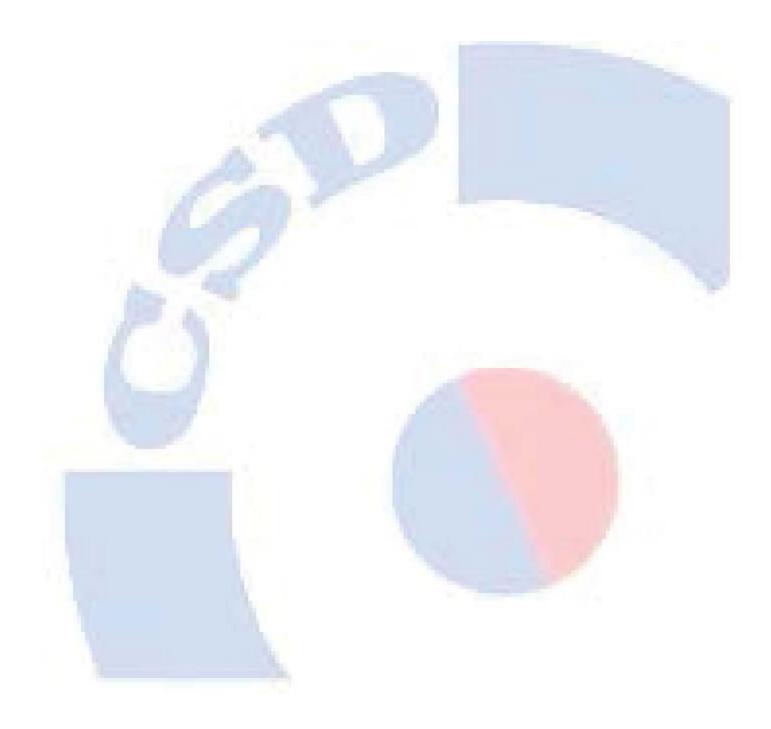
MSc Sabina Bobu

sabina.bobu@staff.tuiasi.ro; +40 756640335













#### FIRST SIGHT CSD2024 CONFERENCE PROGRAM

### Wednesday, 15 May, 2024

Time	Event		
9.00-9.25	Opening ceremony (online)		
9.30-10.10	Plenary Conference 1		
10.10-10.50	Plenary Conference 2		
10.50-11.15	Coffee Break		
44 45 42 00	A COMPANY	Parallel Sessions	
11.15-13.00		On-line	
- 1			
13.00-14.00	Lunch	- 1	
14.00-15.30	- Carlotte	Parallel Sessions	
14.00-15.30	On-line On-line		
15.30-15.45	Coffee Break		
		A STATE OF THE STA	
15.45-17.30	ET.	Parallel Sessions	
15.45-17.30		On-line On-line	

### Thursday, 16 May, 2024

Time	Event
9.30-10.10	Plenary Conference 3
10.10-10.50	Plenary Conference 4
14	
10.50-11.15	Coffee Break

11.15-13.00	Parallel Sessions On-line
13.00-14.00	Lunch







14.00-15.45	Parallel Sessions On-line
15.45-16.00	Coffee Break
	Parallel Sessions On-line
16.00-17.30	Workshop COMPETE 2.0  Applications of artificial intelligence in the industrial domains  On-site

### Friday, 17 May, 2024

Time	Event
9.30-10.10	Plenary Conference 5
10.10-10.50	Plenary Conference 6
10.50-11.15	Coffee Break
11.15-13.00	Session 1 On-site
13.00-14.00	Lunch
14.00-15.45	Session 2 On-site
15.45-16.00	Coffee Break
13.43 10.00	conce break
16.00-17.15	Session 3 On-site
17.30	Closing ceremony (on-site/on-line)







#### **GENERAL CSD2024 CONFERENCE PROGRAM**

### Wednesday, 15 May, 2024

Time	Event				
9.00-9.25	Opening ceremony (Online)				
9.30-10.10		Plenary Conference 1: Prof. dr. Horia IOVU (Online)			
10.10-10.50	Plenary Conference 2: Prof. dr. Vincent NIERSTASZ (Online)				
Link	https://meet.google.com/vfs-wgjp-kbc?hs=224				
				754	
10.50-11.15	Coffee break			760	
1.6	- 600	T	I		
	Parallel	Parallel	Parallel	Parallel Session	
	Session 1.1	Session 2.1	Session 3.1	4.1	
	Section 2.	Section 3.	Section 3.	Section 3.	
	Computers and	Chemistry;	Chemistry;	Chemistry; Chemical	
	information	Chemical	Chemical	engineering;	
	technology; Systems	engineering;	engineering;	Environmental	
11.15-13.00	engineering	Environmental	Envir <mark>onmental</mark>	engineering	
	Energy engineering;	engineering	engin <mark>eering</mark>		
	Electronic engineering,	100		100	
	telecommunications				
	and information	100		164	
	technology	100			
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13.00-14.00	Lunch				
13.00 11.00					
	Parallel	Parallel	Parallel	Parallel	
	Session 1.2	Session 2.2	Session 3.2	Session 4.2	
	Section 3.	Section 3.	Section 2.	Section 2.	
14.00-15.30	Chemistry; Chemical	Chemistry;	Computers and	Computers and	
	engineering;	Chemical	information	information	
	Environmental	engineering;	technology;	technology; Systems	
	engineering		Systems	engineering	







		Environmental	engineering	Electrical
		engineering	Electrical	engineering; Energy
			engineering;	engineering;
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			Electronic	telecommunications
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15.30-15.45	Coffee Break			
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	Parallel	Parallel	Parallel	<b>Parallel Session</b>
	Session 1.3	Session 2.3	Session 3.3	4.3
	Section 5.	Section 3.	Section 4.	Section 5.
	Mechanical	Chemistry;	Civil engineering	Mechanical
	engineering; Industrial	Chemical	and installations	
	chighteething) maastrian	Cilcillical	and installations	engineering;
15.45-17.30	engineering; Materials	engineering;	and installations	engineering; <b>Industrial</b>
15.45-17.30			and installations	G .
15.45-17.30	engineering; Materials	engineering;	and installations	Industrial
15.45-17.30	engineering; Materials engineering;	engineering; Environmental	and installations	Industrial engineering;
15.45-17.30	engineering; Materials engineering; Engineering and	engineering; Environmental	and installations	Industrial engineering; Materials
15.45-17.30	engineering; Materials engineering; Engineering and	engineering; Environmental engineering	and installations	Industrial engineering; Materials engineering;
15.45-17.30	engineering; Materials engineering; Engineering and	engineering; Environmental engineering Section 4.	and installations	Industrial engineering; Materials engineering; Engineering and
15.45-17.30	engineering; Materials engineering; Engineering and	engineering; Environmental engineering  Section 4. Civil engineering	https://meet.goog	Industrial engineering; Materials engineering; Engineering and
15.45-17.30 Link	engineering; Materials engineering; Engineering and management	engineering; Environmental engineering  Section 4. Civil engineering and installations		Industrial engineering; Materials engineering; Engineering and management







technology

### Thursday, 16 May, 2024

Time	Event			
9.30-10.10	Plenary Conference 3: Prof. dr. Sorin MUŞUROI (Online)			
10.10-10.50	Plenary Conference 4: Prof. dr. Cristian MAHULEA (Online)			
Link	https://meet.google.com/ouj-wndn-npr?hs=224			
10.50-11.15	Coffee break			
	Online Parallel	Online Parallel	Online Parallel	Online Parallel
11.15-13.00	Session 1.4 Section 4. Civil engineering and installations	Session 2.4 Section 2. Computers and information technology; Systems engineering Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology	Session 3.4 Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management	Session 4.4 Section 2. Computers and information technology; Systems engineering Electrical engineering; Energy engineering; Electronic engineering, telecommunication s and information technology
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13.30-14.00	Lunch	TV.		
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	Online Parallel	Online Parallel	Online Parallel	Online
	Session 1.5	Session 2.5	Session 3.5	Parallel
	Section 4. Civil engineering and	<b>Section 5</b> . Mechanical	Section 2. Computers and	Session 4.5
	installations	engineering;	information	Section 2.
14.00-15.45		Industrial engineering;	technology; Systems engineering; <b>Electrical</b>	Computers and information technology;
		Materials engineering; Engineering and management	engineering; Energy engineering; Electronic engineering, telecommunications and information	Systems engineering; Electrical engineering; Energy







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15.45-16.00	Coffee break					<del></del> -
	Online	Online	Online	Onlin	e	Onsite
	Parallel	Parallel	Parallel	Parall	el	Workshop
	Session 1.6	Session 2.6	Session 3.6	Session	4.6	Compete 2.0
	Section 5.	Section 5.	Section 5.	Section	5.	Applications of
	Mechanical Mechanical Mechanical		Mechan	ical	artificial	
16.00-17.30	engineering;	engineering;	engineering;	engineer	ing;	intelligence in
10.00-17.30	Industrial	Industrial	Industrial	Industr	ial	the industrial
	engineering;	engineering;	engineering;	engineer	ing;	domains
	Materials	Materials	Materials	Materia	als	
	engineering;	engineering;	engineering;	engineer	ing;	
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### Friday, 17 May, 2024

Event	
Plenary Conference 5: Prof. dr. Maria VAMVAKAKI (Online)	
Plenary Conference 6: Prof. dr. Davide FABIANI (Online)	
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Coffee break	
Session 1.7	
On-site On-site	







13.00-14.00	Lunch		
14.00-15.45	Session 2.7		
	On-site On-site		
15.45-16.00	Coffee Break		
	Session 3.7		
16.00-17.15	On-site On-site		
17.30	Closing ceremony (on-site/on-line)		
LINK:	https://meet.google.com/yhd-qinm-xgp		











### CSD2024 DETAILED CONFERENCE PROGRAM

### Wednesday, 15 May, 2024

Time		Event
	<b>Opening ceremony (Online)</b>	Table 1
9.00-9.25	Prof.dr. Maria Gavrilescu	Director of the Doctoral School  "Gheorghe Asachi" Technical University of Iasi, Romania President of CSD2024
	Prof.dr. Dan Cașcaval	Rector of the "Gheorghe Asachi" Technical University of Iasi, Romania Honorary President of CSD2024
	Prof.dr. Irina Lungu	Vice-Rector International Affairs at the "Gheorghe Asachi" Technical University of Iași
	Prof.dr. Alexandru Sălceanu	Director of the Council for University Doctoral Studies "Gheorghe Asachi" Technical University of Iasi, Romania Co-President of CSD2024
- 13	Prof.dr. Maria Gavrilescu	The official opening of CSD2024
Link	https://meet.google.com/vfs	-wgjp-kbc?hs=224

PLENARY SESSION 1 (Online): Wednesday, 15 May, 9.30-10.50

Chairperson: Prof.dr. Maria Gavrilescu

	Trends in polymer-based	Prof.dr. HORIA IOVU
9.30-10.10	nanocomposites	National University of Science and Technology,
	Hallocomposites	Politehnica, Bucharest, Romania
10 10 10 50	Resource effective textile processes	Prof.dr. VINCENT NIERSTASZ
10.10-10.50	for functional and smart textiles	University of Borås, Sweden
Link	https://meet.google.com/vfs-wgjp-kbc?hs=224	
10.50-11.15	Coffee break	







#### Online Parallel Session 1.1: Wednesday, 15 May, 11.15-13.00

Section 2. Computers and information technology; Systems engineering; Electrical

engineering; Energy engineering; Electronic engineering, telecommunications and

information technology

Chairperson: **Prof. Florin Leon** 

https://meet.google.com/xej-cdbm-jyp

Time	Oral presentation	Authors
	A HIGH-LEVEL SYNTHESIS	<u>Cristian-Tiberius Axinte</u> Gheorghe Asachi" Technical University of Iasi-
11.15-11.30	APPROACH TO MODELLING AND	Romania, Faculty of Automatic Control and
	EVALUATION OF THE AXI5-	Computer Engineering, Iasi, Romania
	STREAM PROTOCOL	(Computers and information technology)
11.30-11.45	DOMAIN-SPECIFIC FPGA-BASED DIGITAL ACQUISITION SYSTEM	Cosmin-Andrei Popovici, Andrei Stan, Vasile-Ion Manta Gheorghe Asachi" Technical University of Iasi-
	FOR HARDWARE ACCELERATORS INTEGRATION	Romania, Faculty of Automatic Control and Computer Engineering, lasi, Romania
		(Computers and information technology)
11.45-12.00	ADVANCED SPEECH SEGMENTATION IN ROMANIAN NEWS BROADCASTS THROUGH MEDIAN FILTERING	Vasile-Silviu Sărmăşanu Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Automatic Control and Computer Engineering, Iasi, Romania (Computers and information technology)
12.00-12.15	INNOVATIONS AND TECHNOLOGICAL UBIQUITY, FOR THE DEVELOPMENT OF E- BUSINESS, AT THE GOVERNMENT LEVEL	Marius Ştefan  Bucharest University of Economic Studies, Bucharest, Romania (Computers and information technology)
12.15-12.30	ELECTRIC VEHICLE CHARGING STATION LAYOUT BASED ON GENETIC ALGORITHM AND AGENT SIMULATION	Yanping Zhang, Dan Chang, Daqing Gong Beijing Jiaotong University, School of Economics and Management, Xizhimenwai, Haidian District, Beijing, China (Systems engineering)
12.30-12.45	COMPARISON BETWEEN AN EXACT AND AN HEURISTIC- BASED METHOD FOR A VECHICLE ROUTING PROBLEM WITH TIME CONSTRAINTS	Mihaela-Alexandra Barb-Ciorbea Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Automatic Control and Computer Engineering, Iasi, Romania (Systems engineering)
12.45-13.00	MONITORING DISTRIBUTION NETWORKS TO DETECT WATER LOSSES -CASE STUDIES	Alexandru Postăvaru, Catrinel-Raluca Giurma- Handley Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering (Systems engineering)







Lunch

#### Online Parallel Session 2.1: Wednesday, 15 May, 11.15-13.00

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Assoc. Prof. Adrian Ungureanu https://meet.google.com/dut-grui-wee

Time	Oral presentation	Authors
11.15-11.30	INTEGRATED SOLVENT-BEAD MILLING SERIAL EXTRACTION ON TWO MICROALGAE STRAIN BIOMASS: Chlorella sorokiniana AND Galdieria sulphuraria	Elena Aurino <sup>1</sup> , Luigi Marra <sup>1</sup> , Francesca Raganati <sup>1</sup> , Antonino Pollio <sup>2,3</sup> , Antonio Marzocchella <sup>1</sup> <sup>1</sup> "Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Università degli Studi di Napoli Federico II, P. le V. Tecchio 80, 80125 Napoli, Italy; <sup>2</sup> "Dipartimento di Biologia, Università degli studi di Napoli Federico II, Via Cintia, 80126, Napoli, Italia; <sup>3</sup> "Algal Collection of University of Naples Federico II, Università degli studi di Napoli Federico II, Via Cintia, 80126, Napoli, Italia (Chemical engineering)
11.30-11.45	C1 WASTE GAS FERMENTATION BY Clostridium carboxidivorans FOR ALCOHOLS PRODUCTION IN A CONTINUOUS GAS FED BIOREACTOR	Sara Pisacane, Fabiana Lanzillo, Francesca Raganati, Antonio Marzocchella Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale - Università degli Studi di Napoli Federico II, P.le V. Tecchio 80, 80125 Napoli, Italy (Chemical engineering)
11.45-12.00	CONTINUOUS AUTOTROPHIC CULTIVATION OF Galdieria sulphuraria: A PREDICTIVE MODEL TO ASSESS PHOTON FLOW REGIMES AND CO <sub>2</sub> EFFECT ON BIOMASS AND METABOLITE PRODUCTIVITY	Luigi Marra <sup>1</sup> , Elena Aurino <sup>1</sup> , Francesca Raganati <sup>1</sup> , Antonino Pollio <sup>2,3</sup> , Antonio Marzocchella <sup>1</sup> <sup>1</sup> Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Università degli Studi di Napoli Federico II, P. le V. Tecchio 80, 80125 Napoli, Italy; <sup>2</sup> Dipartimento di Biologia, Università degli studi di Napoli Federico II, Via Cintia, 80126, Napoli, Italia; <sup>3</sup> Algal Collection of University of Naples Federico II, Università degli studi di Napoli Federico II, Via Cintia, 80126, Napoli, Italia (Chemical engineering)
12.00-12.15	THE INFLUENCE OF THE THERMAL AND DIFFUSION PROPERTIES OF SOME INSULATING POROUS MATERIALS	Adriana-Mariana Asoltanei, Marius Sebastian Secula, Eugenia Teodora Iacob Tudose, Ioan Mămăligă "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection (Chemical engineering)







	EXPLOITING THE	Denis Cutcovschi, Sofronia Bouariu, Gabriela Carja
	RECONSTRUCTION BY THE	"Gheorghe Asachi" Technical University of Iasi,
12.15-12.30	STRUCTURAL MEMORY FOR	Romania, "Cristofor Simionescu" Faculty of Chemical
	ENGINEERING LAYERED DOUBLE	Engineering and Environmental Protection
	HYDROXIDES	(Chemical engineering)
		Ştefan-Leontin Martinaş-Ioniţă, Gabriela Antoaneta
	ADVANCED RECOVERY OF VALUABLE MATERIALS FROM E- WASTE	Apostolescu, Maria Harja
12.30-12.45		"Gheorghe Asachi" Technical University of Iasi,
12.30-12.43		Romania, "Cristofor Simionescu" Faculty of Chemical
		Engineering and Environmental Protection
		(Chemical engineering)
		Paula Olaru Simionescu Rusu, Alina-Mirela Ipate,
	THE RECOVERY OF WASTE	Gabriela Lisa
12.55-13.00	COOKING OIL BY	"Gheorghe Asachi" Technical University of Iasi,
12.55-15.00	TRANSFORMING INTO VALUE-	Romania, "Cristofor Simionescu" Faculty of Chemical
	ADDED PRODUCTS	Engineering and Environmental Protection
		(Chemical engineering)
13.00-14.00	Lunch	

#### Online Parallel Session 3.1: Wednesday, 15 May, 11.15-13.00

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Assoc. Prof. Cezar Catrinescu https://meet.google.com/gsw-ofdt-pus

Time	Oral presentation	Authors
11.15-11.30	XANTHAN GUM-BASED EMULSIONS IN FUNCTIONAL TEXTILES FOR SKINCARE APPLICATIONS	Elena-Daniela Lotos <sup>1</sup> , Angela Dănilă <sup>2</sup> , Marcela Mihai <sup>1</sup> , Bogdan C. Simionescu <sup>1</sup> <sup>1</sup> Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania; <sup>2</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania (Chemistry)
11.30-11.45	POLYELECTROLYTES/ LACCASE COMPOSITE BIOCATALYSTS FOR WATER CLEANING APPLICATIONS	Larisa-Maria Petrila <sup>1</sup> , Rénato Froidevaux <sup>2</sup> , Marcela Mihai <sup>1</sup> 1"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; <sup>2</sup> UMRt INRAE 1158 BioEcoAgro, Université de Lille, Villeneuve d'Ascq, France (Chemistry)
11.45-12.00	SUCCESSFUL DEGRADATION OF BISPHENOL A UNDER VISIBLE LIGHT IRRADIATION BY DOPED TITANIUM DIOXIDE CATALYSTS	Yassine Jari <sup>1</sup> , Lidia Favier <sup>2</sup> , Mohamed Chaker Necibi <sup>1</sup> , Bouchaib Gourich <sup>1,3</sup> , Christophe Vial <sup>4</sup> , Alaâeddine Elhalil <sup>3</sup> , Azzeddine El Midaoui <sup>1</sup> , Nicolas Roche <sup>1,5</sup>







		<sup>1</sup> International Water Research Institute (IWRI), Mohammed VI Polytechnic University, Morocco; <sup>2</sup> Univ Rennes, Ecole Nationale Supérieure de Chimie de Rennes, CNRS, ISCR – UMR6226, France <sup>3</sup> Laboratory of Process and Environmental Engineering, Higher School of Technology, Hassan II University, Morocco; <sup>4</sup> Université Clermont Auvergne, CNRS, Clermont Auvergne INP, Institut Pascal, France; <sup>5</sup> Aix-Marseille University, CNRS, IRD, INRAE, Coll France, CEREGE, CEDEX, France (Chemistry)
12.00-12.15	EXPLORING POTENTIAL NANOPARTICLE EFFECTS ON CELLULAR RESPONSE IN 3D PRINTED SCAFFOLDS THROUGH LOCAL NANOMECHANICAL REINFORCEMENT	Carmen-Valentina Nicolae <sup>1</sup> , Elena Olăreț <sup>1</sup> , Raluca- Elena Ginghină <sup>2</sup> , Sorina Dinescu <sup>3,4</sup> , Andrada Serafim <sup>1</sup> , Izabela-Cristina Stancu <sup>1</sup> <sup>1</sup> Advanced Polymer Materials Group, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology Politehnica Bucharest, Romania; <sup>2</sup> Research and Innovation Center for CBRN Defense and Ecology, Bucharest, Romania; <sup>3</sup> Department of Biochemistry and Molecular Biology, University of Bucharest, Romania; <sup>4</sup> Research Institute of the University of Bucharest (ICUB), Bucharest, Romania (Chemistry)
12.15-12.30	RAFT POLYMERIZATION SYNTHESIS OF POLY(2-(DIMETHYLAMINO) ETHYL ACRYLATE) AND ELECTROSTATIC COMPLEXATION WITH DEXTRAN SULFATE	Melinda-Maria Bazarghideanu <sup>1</sup> , Marius-Mihai Zaharia <sup>1</sup> , Maria Karayianni <sup>1,2</sup> , Stergios Pispas <sup>1,2</sup> , Marcela Mihai <sup>1</sup> <sup>1</sup> "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; <sup>2</sup> Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation Athens, Greece (Chemistry)
12.30-12.45	ENHANCED OXIDATIVE DEGRADATION OF REACTIVE RED 120 USING HETEROGENEOUS FENTON CATALYSTS BASED ON IRON OXIDE NANOPARTICLES CONFINED WITHIN THE PORES OF SBA-15 SILICA	Mihaela Bectoras¹, Cezar Catrinescu¹, Adrian Ungureanu¹, Carmen Ciotonea², Cédric Gennequin², Sébastien Royer³ ¹"Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania; ²Université du Littoral Côte d'Opale, Unité de Chimie Environnementale et Intéractions sur le Vivant-UCEIV, UR4492, SFR Condorcet FR CNRS 3417, Dunkerque, France; ³Université de Lille, CNRS, Centrale Lille, Univ. Artois, UMR 8181 – UCCS – Unité de Catalyse et Chimie du Solide, Lille, France (Chemistry)







_		Sergiu Ionuţ Buştiucel, Margareta Gabriela
		Ciobanu
	ANTIBIOTIC AND SILVER LOADED	"Gheorghe Asachi" Technical University of Iasi,
12.55-13.00	HYDROXYAPATITE FOR BONE	"Cristofor Simionescu" Faculty of Chemical
	TISSUE HEALING	Engineering and Environmental Protection, lasi,
		Romania
		(Chemistry)

13.00-14.00 Lunch

Online Parallel Session 4.1: Wednesday, 15 May, 11.15-12.45

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Assoc. Prof. Brinduşa Sluşer https://meet.google.com/zge-apit-xib

Time	Oral presentation	Authors
11.15-11.30	APPLICATION OF CIRCULAR ECONOMY PRINCIPLES IN BLUE ECONOMY SECTORS	Letizia Caroscio <sup>1</sup> , Cristian Chiavetta <sup>2</sup> , Alessandra Bonoli <sup>1</sup> <sup>1</sup> Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, Italy; <sup>2</sup> ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development (Environmental engineering)
11.30-11.45	HARNESSING THE POWER OF GREEN PAVEMENT TO EFFECTIVELY ADDRESS ENVIRONMENTAL CHALLENGES IN URBAN AREAS	Beatrice De Pascale, Piergiorgio Tataranni, Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, Italy (Environmental engineering)
11.45-12.00	PESTICIDE RESIDUE SCREENING IN CITRUS BASED ON GAS CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY	Brăduţ-Bogdan Minea¹, Cristiana Radulescu¹,²,³ ¹ National University of Science and Technology Politehnica Bucharest, Doctoral School Chemical Engineering and Biotechnology, Bucharest, Romania; ²Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology, Targoviste, Romania; Valahia University of Targoviste, Faculty of Sciences and Arts, Targoviste, Romania (Environmental engineering)
12.00-12.15	WASTEWATER CLEANING WITH MAGNETIC NANOPARTICLES – THE CASE OF RHODAMINE B	Andreea Roxana Fânaru Balint <sup>1</sup> , Marian Grigoraș <sup>2</sup> , Gabriel Ababei <sup>2</sup> , Anda Les Agavriloaei <sup>1</sup> , Dorina Creangă <sup>1</sup> <sup>1</sup> "Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Iasi, Romania; <sup>2</sup> National Institute of







		Research and Development for Technical Physics,
		lasi, Romania
		(Environmental engineering)
		Elena Petronela Bran <sup>1</sup> , Daniela Nicuță <sup>2</sup> , Luminița
		Grosu <sup>3</sup> , Irina-Claudia Alexa <sup>3</sup>
	to vive AND in vitue	Adriana-Luminița Fînaru <sup>3</sup>
	In vivo AND in vitro	<sup>1</sup> "Vasile Alecsandri" University of Bacău, Doctoral
12.15-12.30	INVESTIGATION ON	School, Bacău, Romania; <sup>2</sup> Department of Biology,
	PRODUCTS AND WASTE	Ecology and Protection of Environment;
		<sup>3</sup> Department of Chemical and Food Engineering,
		Bacău, Romania
		(Environmental engineering)
		Anca Sandu-Bălan Tăbăcariu <sup>1,2</sup> , Oana-Irina
12.30-12.45		Patriciu <sup>1</sup> , Ioana-Adriana Ștefănescu <sup>1</sup> ,
	ANTIFUNGAL ACTIVITY OF	Irina-Loredana Ifrim¹, Adriana-Luminiţa Fînaru¹
	<b>EXTRACTS FROM Sambucus nigra</b>	<sup>1</sup> "Vasile Alecsandri" University of Bacau, Faculty of
	AND Juglans regia BY-PRODUCTS	Engineering, Bacău, Romania; <sup>2</sup> "Ștefan Luchian"
		Secondary School, Moinesti, Romania
	Annual Control of the	(Environmental engineering)

12.45-14.00

Lunch

#### Online Parallel Session 1.2: Wednesday, 15 May, 14.00-15.30

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof. Maria Harja

https://meet.google.com/aab-htpm-fur

Time	Oral presentation	Authors
14.00-14.15	THERMOSENSITIVE HYDROGELS – SYNTHESIS AND BIOMEDICAL APPLICATIONS	Adina Maria Baroi Dănilă-Dediu  "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania (Chemical engineering)
14.15-14.30	ELABORATION AND CHARACTERIZATION THE COSMETIC PRODUCT: FROM CONCEPT TO MARKETING	Claudia Bulai Maxim  "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania (Chemical engineering)
14.30-14.45	PHYSICO-CHEMICAL CHARACTERISTICS OF SOME ECOLOGICAL PRODUCTS USED FOR TEXTILE CARE	Valentina Gabi Miron, Niki Vlad Mancași "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management, Iasi, Romania (Chemical engineering)







		Valeria Danilova, Liliana Lazăr, Ioan Mamaligă
	INFLUENCE OF IMPURITIES IN	"Gheorghe Asachi" Technical University of Iasi,
14.45-15.00	ELECTROLYTE ON THE MEMBRANE	Romania, "Cristofor Simionescu" Faculty of
14.43 15.00	FOR BRINE ELECTROLYSIS PROCESS	Chemical Engineering and Environmental
	TON BRINE ELECTROLISIS FROCESS	Protection, Iasi, Romania
		(Chemical engineering)
		Mihaela Caftanachi <sup>1,2</sup> , Maria Harja <sup>1</sup>
	THE USE OF WASTES AS RAW	<sup>1</sup> "Gheorghe Asachi" Technical University of lasi,
15.00-15.15	MATERIALS IN OBTAINING	Romania, "Cristofor Simionescu" Faculty of
13.00-13.13	MATERIALS WITH PROMISING	Chemical Engineering and Environmental
	PROPERTIES	Protection, lasi, Romania; 2S.C. Gemite RO SRL, lasi,
		Romania
		Mihai Vrabie <sup>1,2,</sup> Maria Harja <sup>1</sup>
	WASTES AND ADDITIVES USED TO REDUCE RAW MATERIALS CONSUMPTION	<sup>1</sup> "Gheorghe Asachi" Technical University of Iasi,
15.15-15.30		Faculty of Chemical Engineering and Environmental
		Protection, lasi, 73 Mangeron Boulevard
		<sup>2</sup> "S.C. Gemite RO SRL, Iasi, Romania
		(Chemical engineering)

Online Parallel Session 2.2: Wednesday, 15 May, 14.00-15.30

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof. Laura Bulgariu

15.30-15.45

https://meet.google.com/sef-ovqa-noh

**Coffee Break** 

Time	Oral presentation	Authors
14.00-14.15	METHODS OF REMOVAL OF ANIONIC DETERGENTS FROM WASTEWATER	Mihaela Gabriela Staicu <sup>1</sup> , Florica Manea <sup>2</sup> <sup>1"</sup> Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania; <sup>2</sup> "Politehnica" University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timişoara, Romania (Environmental engineering)
14.15-14.30	METHODS FOR THE ELIMINATION OF PER AND POLIFLUORALKYLIC SUBSTANCES - PROGRESS AND CHALLENGES	Adina Carmen Gavrilescu <sup>1</sup> , Manea Florica <sup>2</sup> <sup>1"</sup> Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania; <sup>2</sup> "Politehnica" University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Timisoara, Romania (Environmental engineering)
14.30-14.45	MANAGEMENT OF PACKAGING WASTE FROM E-COMMERCE IN	<u>Constantin Cîrjan,</u> Daniela Gavrilescu, Carmen Teodosiu







	THE CONTEXT OF CIRCULAR	"Gheorghe Asachi" Technical University of Iasi,
	ECONOMY	Romania, "Cristofor Simionescu" Faculty of
		Chemical Engineering and Environmental
		Protection, lasi, Romania
		(Environmental engineering)
		Eduard Străinu, Ioana Tănasă, Dumitru Botan,
	A PROSPECTIVE COMPARATIVE	Brînduşa Sluşer
		"Gheorghe Asachi" Technical University of Iasi,
14.45-15.00	STUDY ON THE PERCEPTION OF	Romania, "Cristofor Simionescu" Faculty of
	NEARLY ZERO ENERGY BUILDINGS	Chemical Engineering and Environmental
	(NZEB) CONCEPT IN EUROPE	Protection, lasi, Romania
		(Environmental engineering)
		Crinuța Larisa Ortovan, Carmen Zaharia
	PRELIMINARY STUDY OF REMAZOL	"Gheorghe Asachi" Technical University of Iasi,
15 00 15 15	ROSSO RB DYE ADSORPTION	Romania, "Cristofor Simionescu" Faculty of
15.00-15.15	ONTO DRY FRESHWATER ALGAL	Chemical Engineering and Environmental
	BIOMASS	Protection, lasi, Romania
		(Environmental engineering)
	STUDY ON THE PRODUCTION OF	Helmina Ardeleanu, Dana Pricop, Dorina Creangă
	MAGNETITE NANOPARTICLES	"Alexandru Ioan Cuza" University of Iasi, Faculty of
15.15-15.30	STABILIZED WITH SILVER FOR	Physics, Iasi, Romania
	MEDICAL APPLICATIONS	(Physics)

#### 15.15-15.45 Coffee Break

#### Online Parallel Session 3.2: Wednesday, 15 May, 14.00-15.30

**Section 2.** Computers and information technology; Systems engineering; Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: **Prof. Gheorghe Grigoras**<a href="https://meet.google.com/zmc-oeby-icr">https://meet.google.com/zmc-oeby-icr</a>

Time	Oral presentation	Authors
	State of the state	Mihaela Năstase, Mihai Gavrilaș
	DAY-AHEAD LOAD SHIFTING AS A	"Gheorghe Asachi" Technical University of Iasi,
14.00-14.15	DEMAND SIDE MANAGEMENT	Faculty of Electrical Engineering, Energetics and
	STRATEGY	Applied Informatics, Iasi, Romania
		(Energy engineering)
14.15-14.30	RESILIENCE OF POWER SYSTEMS TO CYBER ATTACKS: EVALUATING TOOLS AND METHODOLOGIES FOR ENHANCED RESILIENCE	Alin-Ionuţ Pricop, Mihai Gavrilaş
		"Gheorghe Asachi" Technical University of Iasi,
		Faculty of Electrical Engineering, Energetics and
		Applied Informatics, Iasi, Romania
	LINIANCED RESILIENCE	(Energy engineering)







		Nicolae Stănciulescu
	INFLUENCE OF PHOTOVOLTAIC	"Gheorghe Asachi" Technical University of Iasi,
14.30-14.45	PANELS ON THE NETWORKS OF	Faculty of Electrical Engineering, Energetics and
	DISTRIBUTION OPERATORS	Applied Informatics, Iasi, Romania
		(Energy engineering)
	INTEGRATION OF INTERNET OF	Răzvan Livadariu, Gheorghe Grigoraș
	THINGS AND DATA MINING	"Gheorghe Asachi" Technical University of Iasi,
14.45-15.00	CONCEPTS IN ENERGY	Faculty of Electrical Engineering, Energetics and
	CONSUMPTION MANAGEMENT: A	Applied Informatics, Iasi, Romania
	LITERATURE REVIEW	(Energy engineering)
		Mihai-Andrei Luca, Mihai Gavrilaş
	EFFICIENT OPERATION OF ENERGY	"Gheorghe Asachi" Technical University of Iasi,
15.00-15.15	STORAGE SYSTEMS IN	Faculty of Electrical Engineering, Energetics and
	MICROGRIDS ENRICHED WITH EV	Applied Informatics, Iasi, Romania
		(Energy engineering)
	A	Andrei-Aurelian Ianoș, Cătălin-Daniel Gălățanu
	VARIATION OF NUSSELT NUMBER	"Gheorghe Asachi" Technical University of Iasi,
15.15-15.30	FOR HEAT TRANSFER THROUGH A	Faculty of Electrical Engineering, Energetics and
	RECTANGULAR DUCT	Applied Informatics, Iasi, Romania

#### 15.30-15.45 Coffee Break

#### Online Parallel Session 4.2: Wednesday, 15 May, 14.00-15.30

**Section 2.** Computers and information technology; Systems engineering; **Electrical engineering**; Energy engineering; Electronic engineering, **telecommunications** and information technology

Chairperson: Prof. Ciprian Nemeş

https://meet.google.com/rbs-bocv-oyk

Time	Oral presentation	Authors
14.00-14.15	AN OVERVIEW OF THE IMPROVEMENTS SUPPORTED BY ICNIRP 2020 GUIDELINES COMPARED TO THEIR PREVIOUS EDITIONS	Petronela-Camelia Oprea, Matei-Constantin  Moruz  "Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iasi, Romania (Electrical engineering)
14.15-14.30	INNOVATIVE VIRTUAL REALITY- BASED DESIGN AND EVALUATION OF A MECHATRONIC SYSTEM FOR HAND NEUROREHABILITATION	Elena Nechifor <sup>1</sup> , Sorin-George Nechifor <sup>1</sup> , Marian- Silviu Poboroniuc <sup>1</sup> , Cătălin Dosoftei <sup>2</sup> , Gabriel- Florentin Chiriac <sup>2</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Energetics and Applied Informatics; <sup>2</sup> "Gheorghe Asachi" Technical







		University of Iasi-Romania, Faculty of Automatic
		Control and Computer Engineering
		(Electrical engineering)
		Petronela-Camelia Oprea, Mădălina Cojocariu
	STUDY UPON THE INFLUENCE OF	"Gheorghe Asachi" Technical University of Iasi,
14.30-14.45	MOBILE PHONE PROTECTIVE CASE	Faculty of Electrical Engineering, Energetics and
	ON SAR DISTRIBUTION	Applied Informatics, Iasi, Romania
		(Electrical engineering)
		George Bălan, Alexandru Sălceanu, Dorin-Dumitru
	STUDY ON THE USE OF DIGITAL	Lucache
14.45-15.00	TWIN IN THE ANALYSIS OF	"Gheorghe Asachi" Technical University of Iasi,
11.15 15.00	PHOTOVOLTAIC SYSTEMS	Faculty of Electrical Engineering, Energetics and
	THOTOVOLIAIC STSTEMS	Applied Informatics, Iasi, Romania
		(Electrical engineering)
	AN OVERVIEW AND CURRENT CHALLENGES IN RESPECT TO	Tudor-Alexandru Filip <sup>1</sup> , Mădălina-Petronela
		Simion <sup>1</sup> , Ina Țurcan <sup>2,3</sup> , Marius-Andrei Olariu <sup>1</sup>
		<sup>1</sup> "Gheorghe Asachi" Technical University of Iasi,
	SCREEN-PRINTED	Faculty of Electrical Engineering, Energetics and
15.00-15.15	ELECTROCHEMICAL ELECTRODES	Applied Informatics; <sup>2</sup> "Ion Ionescu de la Brad"
	EMPLOYABILITY AS DISPOSABLE BIOSENSORS	University of Life Sciences, Faculty of Horticulture;
		3 "Alexandru Ioan Cuza" University of Iasi, Faculty
		of Physics, Iasi, Romania
		(Electrical engineering)
	IMPROVING THE CONTROL'S	Silvia-Nicoleta Plăcintă
	NUMBER IN BRAIN-COMPUTER INTERFACE APPLICATIONS BASED ON MOTOR IMAGERY	"Gheorghe Asachi" Technical University of Iasi,
15.15-15.30		Faculty of Electrical Engineering, Energetics and
		Applied Informatics, Iasi, Romania
		(Electrical engineering)

15.30-15.45 Coffee Break

#### Online Parallel Session 1.3: Wednesday, 15 May, 15.45-17.30

**Section 5.** Mechanical engineering; Industrial engineering; **Materials engineering**; Engineering and management

Chairperson: **Prof. Leandru Bujoreanu** https://meet.google.com/rnz-dmkr-nef

Time	Oral presentation	Authors
	EASILY FORMABLE PARAFFIN-	Jolanta Sobczak <sup>1</sup> , Gaweł Żyła
	BASED COMPOSITES	Doctoral School of the Rzeszów University of
	INCORPORATING IRON	Technology, Rzeszów University of Technology,
15.45-16.00	NANOPARTICLES WITH BOTH	Rzeszów, Poland ; Department of Physics and
	HYDROPHILIC AND HYDROPHOBIC	Medical Engineering, Rzeszów University of
	CARBON SHELLS AS GAMMA-RAY	Technology, Rzeszów, Poland
	SHIELD	







		(Materials engineering)
		Fardin Jafari <sup>1</sup> , Giovanni Semprini <sup>2</sup> , Alessandra Bonoli <sup>1</sup>
	REDUCING BUILDING SURFACE	<sup>1</sup> University of Bologna, Department of Civil,
16.00-16.15	TEMPERATURE BY ADDING PCM	Chemical, Environmental and Materials
	LAYER INTO WALL	Engineering, Bologna, Italy; <sup>2</sup> University of Bologna,
	CONFIGURATION	Faculty of Industrial Engineering, Bologna, Italy
		(Materials engineering)
	SCRUTINIZING OF HEAT TRANSFER	Emrehan Gürsoy <sup>1</sup> , Engin Gedik <sup>2</sup>
	AND FLOW MECHANISM IN	<sup>1</sup> Karabük University, Institute of Graduate
16.15-16.30	CIRCULAR BACKWARD-FACING	Programs; <sup>2</sup> Karabük University, Faculty of
10.15-10.50	STEP CONSIDERING FERROFLUID	Engineering, Karabük, Türkiye
	FLOW UNDER MAGNETIC FIELD	(Materials engineering)
	EFFECT	A STATE OF THE STA
		I <u>onuţ Adomniţei</u> ¹, Gheorghe Bădărău¹, Marian
	All and the second	Luţcanu², Daniela Lucia Chicet¹, Nicanor Cimpoesu¹
	PRELIMINARY RESULTS ON YSZ	<sup>1"</sup> Gheorghe Asachi" Technical University of Iasi,
16.30-16.45	(HIGH Y <sub>2</sub> O <sub>3</sub> CONTENT) CERAMIC	Faculty of Materials Science and Engineering;
	LAYERS	<sup>2"</sup> Gheorghe Asachi" Technical University of Iasi,
		Department of Physics, Iasi, Romania
		(Materials engineering)
120		Cristian-Andrei Micu, Petrică Vizureanu, Alin-
	POLYMER COMPOSITES THERMISTORS USED AS HEAT FIRE DETECTORS: A SHORT REVIEW	Marian Cazac, Costică Bejinariu
46.45.47.00		"Gheorghe Asachi" Technical University of Iasi,
16.45-17.00		Faculty of Materials Science and Engineering, lasi,
		Romania
		(Materials engineering)
100	- 100 miles	Cristian-Ştefan Bunduc, Leandru Gheorghe
		Bujoreanu, Ramona Cimpoeșu, Costică Bejinariu
17.00.47.45	SAFETY HELMETS RECYCLING AND	"Gheorghe Asachi" Technical University of Iasi,
17.00-17.15	SELECTION: A SHORT REVIEW	Faculty of Materials Science and Engineering, Iasi,
		Romania
		(Materials engineering)
		Codrin-Dumitru Cîrlan, Edmund Levardă, Marius
	ADVANCED COMPOSITE	Petcu, Stefan Lucian Toma"Gheorghe Asachi"
17.15-17.30	MATERIALS USED IN THE	Technical University of Iasi, Faculty of Materials
	AUTOMOTIVE INDUSTRY	Science and Engineering, Iasi, Romania
		, ,

Online Parallel Session 2.3: Wednesday, 15 May, 15.45-17.15

Section 3. Chemistry; Chemical engineering; Environmental engineering

**Section 4. Civil engineering and installations** 

Chairperson: Assoc. Prof. Carmen Zaharia

https://meet.google.com/cjz-ikzy-hbg







Time	Oral presentation	Authors
15.45-16.00	EFFICIENT VISIBLE-LIGHT PHOTOCATALYTIC REMOVAL OF TARTRAZINE BY ZnO NANOPARTICLES: EVALUATING PHYTOTOXICITY OF TREATED SOLUTIONS	Maria Paiu <sup>1</sup> , Lidia Favier <sup>2</sup> , Doina Lutic <sup>3</sup> , Raluca-Maria Hlihor <sup>4</sup> , Maria Gavrilescu <sup>1,5</sup> 1"Gheorghe Asachi" Technical University of lasi,"Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, lasi, Romania; <sup>2</sup> University of Rennes, Ecole Nationale Supérieure de Chimie de Rennes, CNRS, ISCR – UMR6226, F-35000 Rennes, France;  3"Alexandru Ioan Cuza" University of lasi, Faculty of Chemistry, Department of Chemistry, lasi, Romania; <sup>4</sup> "Ion Ionescu de la Brad" Iasi University of Life Sciences, Faculty of Horticulture, Department of Horticultural Technologies, Iasi, Romania; <sup>5</sup> Academy of Romanian Scientists, Bucharest, Romania
16.00-16.15	RETENTION OF RIFAMPICIN BY ADSOBTION ON PET FIBERS UNDER THE INFLUENCE OF SOME CATIONS AND ANIONS	(Environmental engineering)  Elena Fasniuc-Pereu, Laura Bulgariu  "Gheorghe Asachi" Technical University of lasi,"Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, lasi, Romania (Environmental engineering)
16.15-16.30	EFFECT OF GRAPE VARIETY AND EXTRACTION PROCEDURE ON THE PHENOLICS CONTENT AND ANTIOXIDANT ACTIVITY OF WHITE GRAPE BY-PRODUCTS	Mihaela Nechifor Tudorache <sup>1</sup> , Cristiana Rădulescu <sup>1,2,3,4</sup> <sup>1</sup> National University of Science and Technology POLITEHNICA Bucharest, Doctoral School Chemical Engineering and Biotechnology, Bucharest, Romania; <sup>2</sup> Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology, Targoviste, Romania; <sup>3</sup> Valahia University of Targoviste, Faculty of Sciences and Arts, Targoviste, Romania; <sup>4</sup> Academy of Romanian Scientists, Romania (Environmental engineering)
16.30-16.45	PRELIMINARY STUDY OF TWO COMMERCIAL FLOCCULANTS APPLIED FOR COLORED WASTEWATER TREATMENT	Marius-Alexandru Afrăsinei, Corina-Petronela Mustereț, Carmen Zaharia "Gheorghe Asachi" Technical University of lasi,"Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, lasi, Romania (Environmental engineering)
16.45-17.00	USE OF MODERN WATER LOSS DETECTION TECHNIQUES IN URBAN PIPE NETWORKS	Vasile Stavarachi, Mihail Luca







		"Gheorghe Asachi"Technical University of Iasi-
		Romania, Faculty of Hydrotechnics, Geodesy and
		Environmental Engineering, Iasi, Romania
		(Civil Engineering and installations)
	ANALYSIS OF THE TERRITORIAL	Veronica Muraru, Florian Stătescu
	EVOLUTION OF THE VALEA	"Gheorghe Asachi" Technical University of Iași,
17.00-17.15	LUPULUI LOCALITY, IAȘI COUNTY,	Faculty of Hydrotechnics, Geodesy, and
	FOR THE PERIOD MARCH 2010 -	Environmental Engineering, Iasi, Romania
	MARCH 2024	(Civil Engineering and installations)

#### Online Parallel Session 3.3: Wednesday, 15 May, 15.45-17.30

**Section 4. Civil engineering and installations** 

Chairperson: Assoc. Prof. Petru Mihai https://meet.google.com/xsd-kchh-xdi

Time	Oral presentation	Authors
	ASSESSING CRITERIA FOR	Roozbeh Ebrahimi Golshanabadi
	MEASURING NORMAL	National University of Science and Technology
15.45-16.00	ROUNDABOUT PERFORMANCE	"Politehnica" Bucharest, Faculty of Transportation,
	BASED ON GEOMETRIC	Bucharest, Romania
	CHARACTERISTICS	(Civil engineering and installations)
	CUCTUMA DUE DEVELODA AENTE IN	Alexandru-Cristian Ionescu, Romeo Ciortan
16 00 16 15	SUSTAINABLE DEVELOPMENTS IN	"Ovidius" University Constanța, Faculty of Civil
16.00-16.15	THE PORT OF CONSTANȚA ROMANIA	Engineering,
	KOMANIA	(Civil engineering and installations)
- 1	STAINED CLASS WINDOWS	Nicoleta Însurățelu, Costel Coroban, Ana Maria
	STAINED GLASS WINDOWS, CANOPIES AND AWNINGS FROM	Grămescu
16.15-16.30	HERITAGE BUILDINGS IN	"Ovidius" University of Constanța, Faculty of History
		and Polytical Sciences, Constanța, Romania
	DOBROGEA	(Civil engineering and installations)
		Marius Alexa, Nicolae Ţ <mark>ăranu, Sebast</mark> ian Valeriu
	THEORETICAL ANALYSIS	Hudişteanu, Nelu Cristian Cherecheş, Florin Emilian
	REGARDING COOLING PHOTOVOLTAIC THERMAL PANELS WITH WATER - CASE STUDY	Ţurcanu
16.30-16.45		"Gheorghe Asachi" Technical University of Iasi,
		Romania, Faculty of Civil Engineering and
		Installations, Iasi, Romania
		(Civil engineering and installations)
1		Bogdan Chelaru, Adrian Alexandru Şerbănoiu
	DINA DINAFNICIONIC ADDITICATION	"Gheorghe Asachi" Technical University of Iasi,
16.45-17.00	BIM DIMENSIONS APPLICATION FOR STRUCTURAL DESIGN	Romania, Faculty of Civil Engineering and
	FOR STRUCTURAL DESIGN	Installations, Iasi, Romania
		(Civil engineering and installations)
17.00-17.15	UTILIZATION OF SUSTAINABLE	Răducu-Mihai Geantău, Ancuța Rotaru, Traian-
17.00-17.15	HYDROPHOBIC BIOMIMETIC	Dănuț Babor







	MATERIALS TO REDUCE SEEPAGE	"Gheorghe Asachi" Technical University of Iasi,
	IN FOUNDATION WORKS	Romania, Faculty of Civil Engineering and
		Installations, Iasi, Romania
		(Civil engineering and installations)
		I <u>onuţ Alexandru Spiridon,</u> Dorina Nicolina Isopescu
	SUSTAINABLE STONE MASONRY	"Gheorghe Asachi" Technical University of Iasi,
17.15-17.30	STRENGTHENING SYSTEM USING	Romania, Faculty of Civil Engineering and
	HEMP-BASED MATERIALS	Installations, Iasi, Romania
		(Civil engineering and installations)

#### Online Parallel Session 4.3: Wednesday, 15 May, 15.45-17.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Prof. Rodica Harpa

https://meet.google.com/rsi-mkay-zgz

Time	Oral presentation	Authors
15.45-16.00	SOLUTION FOR ONLINE MARKETING – VIRTUAL TESTING ROOM	Alice Mătășel, Maria Carmen Loghin, Andreea Talpă "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management, Iasi, Romania (Industrial engineering)
16.00-16.15	DIABETIC FOOT COMPLICATIONS	Adriana Chirilă, Aura Mihai, Manuela-Lăcrămioara Avădanei, Mariana Costea, Alina Iovan-Dragomir "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management, Iasi, Romania (Industrial engineering)
16.15-16.30	TAILORED FIBER PLACEMENT APPLICATIONS	Andreea Talpă, Maria Carmen Loghin, Alice Mătășel "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management, Iasi, Romania (Industrial engineering)
16.30-16.45	THE ROUTE OF THE MATERIALS AND THE RETURN OF THE MATERIALS FROM THE TEXTILE INDUSTRY TO THE CIRCUIT OF NATURE	Cezara Patrisia Lazăr <sup>1,2</sup> , Antonela Curteza <sup>1</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Industrial Design and Business Management, Iasi, Romania <sup>2</sup> "Stefan cel Mare" University of Suceava, Faculty of Electrical Engineering and Computer Science, Suceava, Romania  (Industrial engineering)

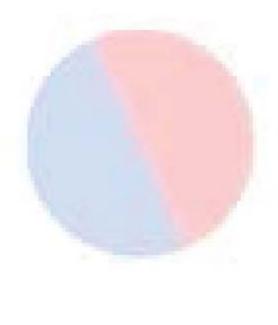






16.45-17.00	OCCUPATIONAL SAFETY AND HEALTH WORK IN VIBRATION ENVIRONMENT	Cristina Grosu <sup>1,2</sup> , Mirela Blaga <sup>1</sup> <sup>1</sup> "Gheorghe Asachi" Technical University, Faculty of Industrial Design and Business Management, Iasi, Romania; <sup>2</sup> National Research & Development Institute for Textiles and Leather, Bucharest, Romania (Industrial engineering)
17.00-17.15	STATE-OF-THE-ART OF ADAPTIVE CLOTHING FOR PEOPLE WITH DISABILITIES	Valentina Frunze, Daniela Fărîmă  "Gheorghe Asachi" Technical University, Faculty of Industrial Design and Business Management, Iasi, Romania (Industrial engineering)
17.15-17.30	PHYSICAL-MECHANICAL PROPERTIES OF COSMETOTEXTILES WITH ANTI- ACNE EFFECT	Lucia-Oana Secareanu <sup>1,2</sup> , Mirela Blaga <sup>1</sup> , Alexandra-Gabriela Ene <sup>2</sup> 1"Gheorghe Asachi" Technical University, Faculty of Industrial Desing and Business Management, Iasi, Romania; <sup>2</sup> National Research & Development Institute for Textiles and Leather, Bucharest, Romania (Industrial engineering)











#### Thursday, 16 May, 2024

#### PLENARY SESSION 2 (Online): Thursday, 16 May, 9.30-10.50

Chairperson: Prof. Alexandru Sălceanu

9.30-10.10	Low-cost ferrite permanent magnet- assisted synchronous reluctance rotor: An alternative solution for rare earth permanent magnet synchronous motors	Prof.dr. SORIN MUȘUROI University Politehnica Timișoara, Romania
10.10-10.50	Current challenges in planning for teams of robots with high-level missions	Prof.dr. CRISTIAN MAHULEA Universidad de Zaragoza, Spain
Link	https://meet.google.com/ouj-wndn-npr?hs=224	

10.50-11.15 | Coffee break

#### Online Parallel Session 1.4: Thursday, 16 May, 11.15-13.15

Section 4. Civil engineering and installations

Chairperson: Assoc. Prof. Petru Mihai

https://meet.google.com/npo-wrzp-sht

Time	Oral presentation	Authors
11.15-11.30	A SURVEY ON THE SEISMIC RETROFIT OF A REINFORCED CONCRETE BUILDING	Alexandru-Nicolae Bizu, Dorina-Nicolina Isopescu "Gheorghe Asachi" Technical University Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
11.30-11.45	LONG-TERM BEHAVIOUR OF THE STRUCTURES BUILT WITHIN THE 1950s-1960s TO CONSOLIDATE THE SHORES AND CLIFFS OF THE BLACK SEA COAST IN CONSTANȚA CITY, ROMANI	Mădălin-Cornel Văleanu, Pavel Ionițoaiei, Ancuța Rotaru "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
11.45-12.00	INNOVATIVE HYDROGEN PLASMA- ASSISTED CONVERSION TECHNOLOGY OF CONSTRUCTION WASTE INTO ENERGY	Iulian Cucos <sup>1</sup> , Dorina Isopescu <sup>2</sup> , Irina Baran <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Hydrotechnics, Geodesy & Environmental Engineering; <sup>2</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)







12.00-12.15	COMPARATIVE STUDY OF THERMAL CONDUCTIVITY IN LIGHTWEIGHT CONCRETE WITH DIFFERENT WASTE MATERIALS	Radu Gabriel Mihai, Ştefănica Eliza Vizitiu, Gabriel Bejan, Dorin Avram, Marinela Bărbuță, Ligia Melinte, Mowaffak Tawfik "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building
	TWO ITEMS IES	Services, Iasi, Romania (Civil engineering and installations)
12.15-12.30	MECHANICAL PROPERTIES AND FROST-THAW BEHAVIOR IN ROAD CONCRETE	Bogdan Ionel Luca <sup>1,2</sup> , Alexandru Panţiru <sup>1</sup> , Marinela Bărbuţă <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania; <sup>2</sup> Romanian Association of Earthquake Engineering (Civil engineering and installations)
12.30-12.45	EVOLUTION AND INNOVATION OF INDUSTRIAL STEEL RACKING SYSTEMS: A STRUCTURAL AND FUNCTIONAL ANALYSIS	<u>Serban Iacob</u> , George Țăranu, Nicolae Țăranu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
12.45-13.00	NUMERICAL AND PHYSICAL EXPERIMENTS ON THE BEHAVIOR OF THE PERFORATED STEEL CORE COMPONENT OF BUCKLING RESTRAINED BRACES	Cosmin-Petru Mocanu-Basalic <sup>1</sup> , Septimiu George Luca <sup>1</sup> , Petru Mihai <sup>1</sup> , Irina Lungu <sup>1</sup> , Elena Basalic Mocanu <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania; <sup>2</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Material Science and Engineering, Iasi, Romania (Civil engineering and installations)
13.00-13.15	CONSIDERATIONS ABOUT THE EFFICIENCY OF COMMONLY USED INSULATION MATERIALS AT EXTERNAL WALLS FOR HISTORIC BUILDINGS, USING NUMERICAL SIMULATION DATA AND FIELD MEASUREMENTS	Petru Cătălin Miltiade, Irina Baran, Laura Dumitrescu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
13.15-14.00	Lunch	

#### Online Parallel Session 2.4: Thursday, 16 May, 11.15-13.15

Section 2. Computers and information technology; Systems engineering; Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

**Chairperson: Prof. Marian Poboroniuc** https://meet.google.com/ngm-wuhg-frt

Time	Oral presentation	Authors
11.15-11.30	CHARACTERIZATION OF SPATIAL	Yining Wang <sup>1</sup> , Zhenji Zhang <sup>2</sup> , Daqing Gong <sup>3</sup>
	AND TEMPORAL DISTRIBUTION OF	







	CHARGING STATION LOADS AND	Beijing Jiaotong University, School of Economics and
	ANALYSIS OF INFLUENCING FACTORS	
	ANALYSIS OF INFLUENCING FACTORS	Management, Nr. 3 Shangyuan Village, Xizhimenwai,
		Haidian District, Beijing 100044, China
		(Electrical engineering)
	STUDY ON THE ELECTROMAGNETIC	Matei-Constantin Moruz, Petronela-Camelia Oprea
	EMISSIONS OF THE DEVICES THAT	"Gheorghe Asachi" Technical University of Iasi,
11.30-11.45	COULD BE USED IN A	Faculty of Electrical Engineering, Energetics and
	NEUROSURGERY OPERATING	Applied Informatics, Iasi, Romania
	THEATRE	(Electrical engineering)
	BALANCED HYBRID	Radu Ionașcu, Marian-Silviu Poboroniuc
	FES&MECHATRONIC CONTROL	"Gheorghe Asachi" Technical University of Iasi,
11.45-12.00	SOFTWARE METHOD FOR HAND	Faculty of Electrical Engineering, Energetics and
		Applied Informatics, Iasi, Romania
	REHABILITATION IN STROKE PEOPLE	(Electrical engineering)
	EMPATHETIC HORIZONS: EXPLORING THE DEPTH AND BREADTH OF HUMAN EMPATHY IN AN	Daniela Anamaria Arsene Dolhăscu
		"Gheorghe Asachi" Technical University of Iasi,
12.00-12.15		Faculty of Electrical Engineering, Energetics and
		Applied Informatics, Iasi, Romania
	INTERCONNECTED WORLD	(Electrical engineering)
	The state of the s	Petronela-Camelia Oprea, Matei-Constantin Moruz
	THEORETICAL APPROACHES TO	"Gheorghe Asachi" Technical University of Iasi,
12.15-12.30	BIBLIOMETRIC TOOLS FOR SAR	Faculty of Electrical Engineering, Energetics and
	DISTRIBUTION	Applied Informatics, Iasi, Romania
		(Electrical engineering)
		Mădălina Cojocariu, Petronela-Camelia Oprea
12.30-12.45	OF TELEMEDICINE DEVICES FROM	"Gheorghe Asachi" Technical University of Iasi,
		Faculty of Electrical Engineering, Energetics and
	THE PERSPECTIVE OF	Applied Informatics, Iasi, Romania
	ELECTROMAGNETIC INTERFERENCES	(Electrical engineering)
		(
12 45 14 00	Lunch	
12.45-14.00	Lunch	

#### Online Parallel Session 3.4: Thursday, 16 May, 11.15-13.00

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

**Engineering and management Chairperson: Prof. Mirela Blaga** 

https://meet.google.com/djh-xavd-nop

Time	Oral presentation	Authors
11.15-11.30	DIMENSIONS AND MANAGEMENT MODELS OF ORGANIZATIONAL WELLBEING	Nicoleta-Andreea Filip <sup>1</sup> , Dănuț-Constantin Filip <sup>1</sup> , Ion Verzea <sup>1</sup> , Rachid Chaib <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania; <sup>2</sup> "Freres Mentouri" University of Constantine, Department of Engineering, Transport and Environment, Constantine, Algeria







		(Engineering and management)
11.30-11.45	DIMENSIONS AND MODELS OF DIGITIZED MANAGEMENT OF ORGANIZATIONS	Dănut-Constantin Filip, Nicoleta-Andreea Filip, Ion Verzea "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania (Engineering and management)
11.45-12.00	THEORETICAL RESEARCH INTO SUSTAINABLE SUPPLY CHAIN MANAGEMENT	Ioana-Alexandra Sbîrcea, Rebecca Ana Maria Chiriţă, Cristina-Elena Ungureanu University Politehnica of Bucharest, Doctoral School of Entrepreneurship, Business Engineering and Management, Bucharest, Romania (Engineering and management)
12.00-12.15	RESEARCH ON PREDICTIVE MANAGEMENT SYSTEMS AND ANTICIPATORY MAINTENANCE TECHNOLOGIES OF PIPELINE TRANSPORT INFRASTRUCTURES	Elena Cristina Anghel Vlădescu University of Petroșani, Doctoral School, Petrosani, Romania (Engineering and management)
12.15-12.30	CRITICAL SUCCESS FACTORS FOR THE ADOPTION OF AGILE MATURITY MODELS IN MULTINATIONAL ORGANISATIONS	Cristina-Elena Ungureanu, Alina-Elena Ancu, Ioana-Alexandra Sbîrcea, Rebecca Ana Maria Chiriță National University of Science and Technology Politehnica Bucharest, Doctoral School of Entrepreneurship, Business Engineering and Management, Bucharest, Romania (Engineering and management)

12.30-14.00 Lunch

#### Online Parallel Session 4.4: Thursday, 16 May, 11.15-13.30

Section 2: Computers and information technology; Systems engineering; Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof. Dan Dobrea

https://meet.google.com/ges-gmvx-gwa

Time	Oral presentation	Authors
11.15-11.30	CLASSIFICATION OF FOCAL AND GENERALIZED EEG EPILEPTIC SIGNALS USING EMPIRICAL WAVELET TRANSFORM AND MULTIPLE CLASSIFIERS	Mădălina-Giorgiana Murariu, Mihaela Gavrilă, Daniela Tărniceriu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Electronics, Telecommunications and Information Technology, Iași, Romania (Electronic engineering, telecommunications and information technology)
11.30-11.45	CYBERWARFARE DYNAMICS: STRATEGIC IMPLICATIONS IN THE DIGITAL DOMAIN	Roxana Emanuela Ambrozie "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Electronics,







		Telecommunications and Information Technology, Iaşi, Romania (Electronic engineering, telecommunications and information technology)
11.45-12.00	ON THE DESIGN OF PLANAR INDUCTORS IN POWER APPLICATIONS	Olimpian-Toma Păulet, Dorin Octavian Neacșu "Gheorghe Asachi" Technical University of Iasi, Faculty of Electronics, Telecommunications and Information Technology, Iași, Romania (Electronic engineering, telecommunications and information technology)
12.00-12.15	A COMPARATIVE ANALYSIS OF THE EMOTION CLASSIFICATION IN FACIAL THERMAL IMAGES	Sorin Marius Pavel <sup>1</sup> , Dorel Aiordăchioaie <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Electronics, Telecommunications and Information Technology, Iași, Romania; <sup>2</sup> "Dunarea de Jos" University of Galati, Faculty of Automation, Computers, Electrical and Electronics Engineering, Galati, Romania (Electronic engineering, telecommunications and information technology)
12.15-12.30	HOMOMORPHIC HASHING: ENABLING PRIVACY-PRESERVING ANALYTICS IN THE ERA OF BIG DATA	Eduard Mihăilescu, Mihaela Gavrilă, Doru Florin Chiper "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Electronics, Telecommunications and Information Technology, Iași, Romania (Electronic engineering, telecommunications and information technology)
12.30-12.45	DESIGNING ALGORITHMS FOR OPTIMIZING VEHICLE MINIMUM TRAVEL DISTANCE	Mihaela Gavrilă <sup>1</sup> , Eduard Mihăilescu <sup>1</sup> , Daniela Tărniceriu <sup>1</sup> , Mădălina Murariu <sup>1</sup> , Delia-Elena Bărbuță <sup>2</sup> <sup>1</sup> "Gheîorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology; 2Faculty of Automation Control and Computer Engineering, Iasi, Romania (Electronic engineering, telecommunications and information technology)

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12.45-14.00 Lunch

Online Parallel Session 1.5: Thursday, 16 May, 14.00-15.30

**Section 4. Civil engineering and installations** 

Chairperson: Assoc. Prof. Petru Mihai https://meet.google.com/yuw-ydoc-gbg

Time	Oral presentation	Authors
	SHEAR STRUCTURAL RESPONSE OF	Florin-Sergiu Alupoae, Nicolae Țăranu, Dragoș
14.00-14.15	STRENGTHENED UNREINFORCED	Ungureanu, Cătălin Onuțu
	STONE MASONRY WALLS USING	







	TRADITIONAL AND MODERN TECHNIQUES EXPERIMENTAL SET-UP	"Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
14.15-14.30	IMPORTANCE OF ACHIEVING ZERO EMISSION BUILDINGS (ZEB) FOR SUSTAINABLE DEVELOPMENT	Ioan Ursache, Andrei Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
14.30-14.45	SUSTAINABLE HIGHWAY CONSTRUCTION PLANNING BY ADVANCING ENVIRONMENTAL CONSERVATION THROUGH AN INTEGRATED SOIL MAPPING AND LAND MANAGEMENT PLATFORM	George-Călin Baltariu <sup>1</sup> , Ilinca-Maria Baltariu <sup>1,2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania; <sup>2</sup> "Alexandru Ioan Cuza" University of Iasi, Faculty of Economics and Business Administration, Iasi, Romania (Civil engineering and installations)
14.45-15.00	REDUCING RESOURCE CONSUMPTION IN SUBSTRUCTURE WORKS BY REUSING WASTE	Stelian-Ioan Tudoriu, Decebal-Cristian Andrii, Ancuța Rotaru "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
15.00-15.15	STUDIES ON THE STABILIZATION OF FOUNDATION SOILS THROUGH ALTERNATIVE METHODS	Marinela Scanghel "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)
15.15-15.30	MANAGING URBAN PLANNING IN A MAJOR ROMANIAN CITY: INTEGRATING INDUSTRIAL HERITAGE FOR PUBLIC SPACE RECONFIGURATION - GROUND RULES AND KEY APPROACHES	Razvan Nicolae Ivanciu "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations)

#### Online Parallel Session 2.5: Thursday, 16 May, 14.00-15.15

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

**Engineering and management** 

15.30-16.00

Chairperson: Prof. Manuela Avădanei

https://meet.google.com/mmv-dsdb-zqw

**Coffee break** 

Time	Oral presentation	Authors
14.00-14.15	PERSPECTIVE ON PERFORMANCE	Rebecca Ana Maria Chiriță, Cristina - Elena
	MANAGEMENT FORMS	Ungureanu, Ioana-Alexandra Sbîrcea







		University Politehnica of Bucharest, Doctoral School
		of Entrepreneurship, Business Engineering and
		Management, Bucharest, Romania
		(Engineering and management)
14.15-14.30	LEAN SIX SIGMA 4.0: AN INNOVATIVE STRATEGY FOR A	Nicoleta-Mihaela Căsăneanu Dascălu, Marius Pîslaru "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business
	SUSTAINABLE MANUFACTURING ECOSYSTEM	Management, lasi, Romania (Engineering and management)
14.30-14.45	THE EFFECT OF DIGITAL MARKETING STRATEGIES ON THE GROWTH OF THE COMPANY'S PERFORMANCE	Sebastian Birzu, Silvia Avasilcăi "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania (Engineering and management)
14.45-15.00	MANAGEMENT RISK MODELS. THEORETICAL APPROACH	Mihai-Doru Buliga, Ion Verzea "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania (Engineering and management)
15.00-15.15	EVALUATION OF SUSTAINABILITY IN THE PHARMACEUTICAL INDUSTRY VIA PERFORMANCE INDICATORS	Laura-Crina Miraute Coca, Marius Pîslaru "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania (Engineering and management)

#### 15.15-16.00 Coffee break

#### Online Parallel Session 3.5: Thursday, 16 May, 14.00-15.45

**Section 2.** Computers and information technology; Systems engineering; **Electrical engineering**; Energy engineering; Electronic engineering, telecommunications and information technology

**Chairperson: Prof. Marius Olariu** 

https://meet.google.com/qdr-vfmr-hwm

Time	Oral presentation	Authors
14.00-14.15		Mădălina Cojocariu, Matei-Constantin Moruz,
	CURRENT DEVELOPMENTS IN THE	Petronela-Camelia Oprea
	TELEMEDICINE INFRASTRUCTURE	"Gheorghe Asachi" Technical University of Iasi,
14.00-14.15	IDENTIFIED WITH BIBLIOMETRIC	Faculty of Electrical Engineering, Energetics and
	TOOLS	Applied Informatics, Iași, Romania
		(Electrical engineering)
		Sorin George Nechifor <sup>1</sup> , Elena Nechifor <sup>1</sup> , Marian-
		Silviu Poboroniuc <sup>1</sup> , Cătălin Dosoftei <sup>2</sup> , Gabriel-
14.15-14.30	UPPER LIMB REHABILITATION WITH	Florentin Chiriac <sup>2</sup>
	EXOSKELETON MECHATRONIC	<sup>1</sup> "Gheorghe Asachi" Technical University of Iasi,
	SYSTEMS AND VR TECHNOLOGY	Romania, Faculty of Electrical Engineering, Energetics
		and Applied Informatics; <sup>2</sup> Faculty of Automatic
		Control and Computer Engineering







		(Electrical engineering)
14.30-14.45	STUDY ON ELECTROMAGNETIC INTERFERENCE IN DIFFERENT OPERATING ROOMS	Marina-Georgiana Roman, Lidia Nedelcu "Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iaşi, Romania (Electrical engineering)
14.45-15.00	PREDICTIVE MAINTENANCE FOR MEDICAL VENTILATORS BASED ON SOUND AND ELECTROMAGNETIC FIELD MEASUREMENTS	Lidia Nedelcu, Marina-Georgiana Roman "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iaşi, Romania (Electrical engineering)
15.00-15.15	IDENTIFICATION AND CHARACTERIZATION OF ELECTROMAGNETIC INTERFERENCES IN THE MEDICAL IMAGING CLINICAL CENTER	Adelina-Cristina Căsuță, Alexandru-Marian Bordaș "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iași, Romania (Electrical engineering)
15.15-15.30	PERFORMANCE IMPROVEMENT OF DISTRIBUTION TRANSFORMERS FOR THE ENERGY SYSTEM	Veronica-Carmen Gheorghe, Radu Burlică "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iași, Romania (Electrical engineering)
15.30-15.45	A COMPARATIVE FEM STUDY BETWEEN PERMANENT MAGNET AND WOUND FIELD SYNCHRONOUS MACHINES	Mihăiță-Emanuel Anton "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iași, Romania (Electrical engineering)

#### 15.45-16.00 Coffee break

#### Online Parallel Session 4.5: Thursday, 16 May, 14.00-15.00

Section 2. Computers and information technology; Systems engineering; Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof. Dan Dobrea

https://meet.google.com/eqr-ijuz-qrw

Time	Oral presentation	Authors
14.00-14.15	NEW FIRE AND SMOKE DATASET USED FOR TRAINING YOLO AND PERFORMANCE EVALUATION	Constantin Catargiu  "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Electronics, Telecommunications, and Information Technology Iasi, Romania (Electronic engineering, telecommunications and information technology)
14.15-14.30	FOREARM ELECTROMYOGRAM- BASED BIOMETRICS USING BAG-OF-WORDS CLASSIFIERS	Irina Pavel, Iulian Ciocoiu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Electronics, Telecommunications, and Information Technology Iasi, Romania







		(Electronic engineering, telecommunications and
		information technology)
		Alexandra-Iulia David
	GENERATIVE AL ITC IN ARACT	"Gheorghe Asachi" Technical University of Iasi-
14 20 14 45	GENERATIVE AI: ITS IMPACT,	Romania, Faculty of Electronics, Telecommunications,
14.30-14.45	CHALLENGES, AND CONSEQUENCES ACROSS IT OCCUPATIONS	and Information Technology Iasi, Romania
	ACROSS IT OCCUPATIONS	(Electronic engineering, telecommunications and
		information technology)
		Iulia-Petronela Onică, Iulian Ciocoiu
	GESTURE IDENTIFICATION AND	"Gheorghe Asachi" Technical University of lasi-
14.45-15.00	AUTHENTICATION BASED ON EMG	Romania, Faculty of Electronics, Telecommunications,
14.43-13.00	SIGNALS USING BAG-OF WORDS	and Information Technology Iasi, Romania
	CLASSIFIER	(Electronic engineering, telecommunications and
	- 10 Year	information technology)
	IMPACT OF ENERGY PRODUCTION FROM RENEWABLE SOURCES ON THE INVESTMENT PLAN OF	Gabriel-Dorin Melus
		"Gheorghe Asachi" Technical University of Iasi,
15.00-15.15		Romania, Faculty of Electrical Engineering, Energetics
	ELECTRICITY DISTRIBUTORS	and Applied Informatics, Iași, Romania
	LEEGINGIT DISTRIBUTORS	(Energy engineering)

15.15-16.00 Coffee break

#### Online Parallel Session 1.6: Thursday, 16 May, 16.00-17.30

**Section 5.** Mechanical engineering; Industrial engineering; **Materials engineering**; Engineering and management

Chairperson: Prof. Leandru Bujoreanu

https://meet.google.com/rsx-iqxp-nmn

Time	Oral presentation	Authors
16.00-16.15	IN VITRO INVESTIGATION OF BIODEGRADABLE ZNTI ALLOYS ON CORROSION BEHAVIOUR IN A PHYSIOLOGICAL FLUID	Alexandra-Tamara Şutic, Romeu Chelariu, Nicanor Cimpoeşu, Ramona Cimpoeşu, Mihai Axinte, Ana-Maria Roman, Gheorghe Bădărău "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering)
16.15-16.30	ANALYSIS OF THE MAIN SOLICITATIONS OF MATERIALS FOR SALT WATER PUMPS	Magdalena-Gabriela Hutanu, Nicanor Cimpoesu, Liviu Andrusca, Vasile Manole, Mihai Axinte "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering)
16.30-16.45	ENHANCING ORTHOPEDIC APPLICATIONS: A COMPARATIVE STUDY OF TIMOSI AND TIGAI4V ALLOYS FOR IMPROVED	Ion Ghiculescu <sup>1</sup> , Marius Albert Mazilu <sup>1</sup> , Mihai Tofan <sup>1</sup> , Andrei Victor Sandu <sup>1,2</sup> , Madalina Simona Baltatu <sup>1</sup> , Petrică Vizureanu <sup>1,3</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering; <sup>2</sup> Academy of







	BIOCOMPATIBILITY AND MECHANICAL PROPERTIES	Romanian Scientists, Bucharest, Romania; <sup>3</sup> Academy of Technical Sciences, Bucharest, Romania (Materials engineering)
16.45-17.00	MODERN METHODS OF SEVERE PLASTIC DEFORMATION: A SHORT REVIEW	Stefana Dochiţa-Agop, Ioan-Gabriel Sandu, Nicanor Cimpoeşu, Costică Bejinariu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering)
17.00-17.15	IMPACT OF CHEMICAL CORROSION ON MECHANICAL CHARACTERISTICS OF MORTAR WITH NANOPARTICLES ADDITION	Elena Basalic Mocanu <sup>1</sup> , Daniel Lepadatu <sup>2</sup> , Cosmin Mocanu <sup>2</sup> , Ramona Cimpoesu <sup>1</sup> , Loredana Judele <sup>2</sup> , Nicanor Cimpoesu <sup>1</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering, <sup>2</sup> Faculty of Civil Engineering and Building Services, Iasi, Romania (Materials engineering)
17.15-17.30	A DOCUMENTARY SYNTHESIS OF THE RESEARCH-DEVELOPMENT STAGE OF SOLID-STATE ORDER-DISORDER TRANSITION IN Cu-BASED SHAPE MEMORY ALLOYS	<u>Serban Chimir</u> , Leandru-Gheorghe Bujoreanu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering)

#### Online Parallel Session 2.6: Thursday, 16 May, 16.00-17.00

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

**Engineering and management** 

Chairperson: Prof. Antonela Curteza

https://meet.google.com/ttm-ofrv-pab

Time	Oral presentation	Authors
16.00-16.15	RESEARCH AND CONTRIBUTIONS REGARDING THE ROLE OF THE IN- FORMATION SYSTEM IN ORGANIZATIONAL SUSTAINABILITY MAN- AGEMENT	Stefana-Cătălina Pohonțu-Dragomir, Ionuț-Viorel Herghiligiu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management (Engineering and management)
16.15-16.30	DIGITAL TOOLS FOR DEVELOPING SUSTAINABLE SHAPES OF CLOTHING PRODUCTS FOR CUSTOMERS WITH SPECIAL NEEDS	Mălina-Ioana Rosca, Ana-Diana Vatră, Manuela Lăcrămioara Avădanei "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management (Engineering and management)
16.30-16.45	EXPLORING MOST USED METHODS OF EVALUATING HUMAN RESOURCE PERFORMANCE: IMPLICATIONS FOR ORGANIZATIONAL SUCCESS	Florentina Bîrlădeanu Eftincă, Silvia Avasilcăi, Adriana Bujor, Ana Maria Dobranici Dumitrescu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management (Engineering and management)







		Ana Maria Dobranici Dumitrescu, Silvia Avasilcăi,
	ROMANIAN PRE-UNIVERSITY	Adriana Bujor, Florentina Bîrlădeanu Eftincă
16 45 17 00	EDUCATION INSTITUTIONS:	"Gheorghe Asachi" Technical University of Iasi-
16.45-17.00	SOCIAL OR BUSINESS	Romania, "Cristofor Simionescu" Faculty of Chemical
	ORGANIZATIONS?	Engineering and Environmental Protection
		(Environmental engineering)

#### Online Parallel Session 3.6: Thursday, 16 May, 16.00-17.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Prof. Daniela Popescu

https://meet.google.com/hrb-ojgg-qhs

Time	Oral presentation	Authors
16.00-16.15	PILLARS OF THE INDUSTRY 5.0 USED IN INDUSTRIAL ENGINEERING	Florin-Daniel Eduţanu  "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania
		(Industrial engineering)  Maria Catana, Simona-Nicoleta Mazurchevici,
16.15-16.30	IMPROVED PROPERTIES BY FFF BICOMPONENT 3D PRINTING OF POLYMERS – A REVIEW	Dumitru Nedelcu "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering)
16.30-16.45	METHODS AND TOOLS IN A STEP BY STEP APPROACH FOR CAPABILITY ANALYSIS WITH A CASE STUDY FOR THE IMPROVEMENT OF A GRINDING PROCESS WITHIN AN AUTOMATED UNIT	Laurențiu Larco "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering)
16.45-17.00	PROCESS PARAMETERS REGARDING INFILL, AVAILABLE IN THE ULTIMAKER CURA SOFTWARE	Alexandru-Ionut Irimia, Vasile Ermolai, Răzvan Stavarache, Gheorghe Nagîț "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering)
17.00-17.15	HARNESSING HEAT FROM VEHICLE EXHAUST FOR AUTOMOTIVE APPLICATION	Robert-Marian Bleotu, Cosmin Preda "Lucian Blaga" University of Sibiu, Department of Industrial Machinery and Equipment, Victoriei Street 10, 550024, Sibiu, Romania (Industrial engineering)
17.15-17.30	3D PRINTING OF PARTS USING BIODEGRADABLE FILAMENTS	Lucian-Corneliu Dârlău







	REINFORCED WITH METALLIC	"Gheorghe Asachi" Technical University of lasi-
	PARTICLES	Romania, Faculty of Machine Manufacturing and
		Industrial Management, Iasi, Romania
		(Industrial engineering)
		Răzvan Cosmin Stavarache, Vasile Ermolai,
	DEINICODOING INICILI CEDUCTURE	Alexandru Ionuţ Irimia
47 20 47 45	REINFORCING INFILL STRUCTURE FOR MATERIAL EXTRUSION ADDITIVE MANUFACTURING	"Gheorghe Asachi" Technical University of Iasi-
17.30-17.45		Romania, Faculty of Machine Manufacturing and
		Industrial Management, Iasi, Romania
		(Industrial engineering)
		Mihaela Feraru Ilie, Simona-Nicoleta Mazurchevici,
	PLASMA JET COPPER COATING OF 3D PRINTED BIODEGRADABLE MATERIALS – A REVIEW	Dumitru Nedelcu
47 45 40 00		"Gheorghe Asachi" Technical University of Iasi-
17.45-18.00		Romania, Faculty of Machine Manufacturing and
		Industrial Management, Iasi, Romania
	The same of the sa	(Industrial engineering)

#### Online Parallel Session 4.6: Thursday, 16 May, 16.00-18.00

Section 5: Mechanical engineering; Industrial engineering; Materials engineering;

Engineering and management

Chairperson: Prof. loan Doroftei

https://meet.google.com/kjd-bmhu-vbv

Time	Oral presentation	Authors
16.00-16.15	DESIGN ANALYSIS OF GEAR WITH THE USAGE OF THE ADVANCED COMPUTER PROGRAM	Nikola Veleski, Ljupco Trajcevski "University "St. Kliment Ohridski" Bitola, Faculty of Technical Sciences, Bitola, North Macedonia (Mechanical engineering)
16.15-16.30	EXPLORING THE HYPERELASTIC BEHAVIOR OF EPDM RUBBER SPRINGS: A COMPREHENSIVE ANALYSIS	George Popa <sup>1,2</sup> , Dragoş Luca <sup>2</sup> , Viorel Paleu <sup>1,2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania; <sup>2</sup> Continental Automotive Iaşi, Romania (Mechanical engineering)
16.30-16.45	OVERVIEW ON VEHICLE - BRIDGE COUPLED VIBRATIONS	Adi-Mihăită Velniciuc "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering)
16.45-17.00	OPTIMIZATION OF PROTECTIVE THERMAL SHIELDS FOR TEG ENERGY RECOVERY DEVICES IN ICE SYSTEMS	George Achitei, Lamara Achitei, Aristotel Popescu "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering)
17.00-17.15	ASSESSMENT OF POLYCRYSTALLINE, MONOCRYSTALLINE, AND AMORPHOUS SOLAR PANELS UNDER DYNAMIC ENVIRONMENTAL CONDITIONS: PERFORMANCE	Eduard Enasel, Gheorghe Dumitrașcu "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering)







	INSIGHTS FOR RENEWABLE ENERGY APPLICATIONS	
17.15-17.30	HYDRAULIC MANIFOLDS BLOCKS – OPTIMIZATIONS, SIMULATIONS AND TESTING METHODS. A REVIEW	Marcis Ioan Tica "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Faculty of Machine Manufacturing and Industrial Management, Iasi, Romania (Mechanical engineering)
17.30-17.45	THE PROCESS OF MAKING COMPOSITE MATERIALS WITH CARBON FIBER, BASALT OR FLAX	Ionut Mititelu, Paul Doru Bârsănescu "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering)
17.45-18.00	ASSESSMENT OF HARMFUL EMISSIONS BY COMBUSTION PROCESSES OF NATURAL GAS AND HYDROGEN MIXTURES, AT PRESCRIBED COMBUSTION TEMPERATURE AND PRESSURE	Ovidiu Trofin <sup>1</sup> , Mădălina Boțu <sup>1</sup> , Gheorghe Dumitrașcu <sup>2</sup> <sup>1</sup> National Research and Development Institute for Gas Turbines, COMOTI, Bucharest, Romania <sup>2</sup> "Gheorghe Asachi" Technical University of Iași, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering)

### Onsite Parallel Session 5.6: Thursday, 16 May, 16.00-17.30, SALA C101, CORP T, ET.1 WORKSHOP: Applications of artificial intelligence in the industrial domains

Chairpersons: Prof. Maria-Carmen Loghin, Lector dr. Alin Dragomir

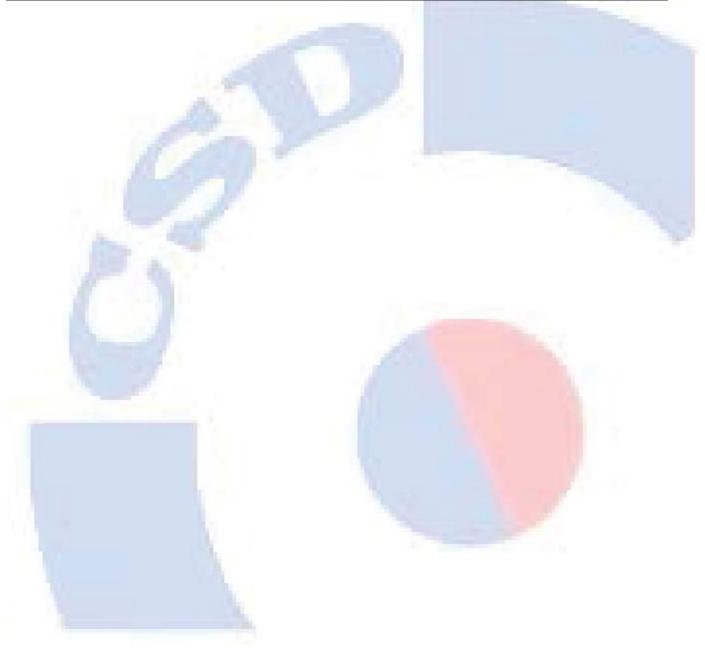
Time	Oral presentation	Authors
16.00-16.15	FUZZY SYSTEM WITH NEURAL NETWORK - GENERATED RULES IN AN ARTIFICIAL INTELLIGENCE APPLICATION FOR EVALUATING TECHNICAL RESILIENCE	Adrian Vîlcu, Mădălina Laura Veleșcu "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania
16.15-16.30	IMPROVING INFRARED THERMOGRAPHIC INSPECTIONS OF ELECTRICAL INSTALLATIONS THROUGH THE CONTRIBUTION OF ARTIFICIAL INTELLIGENCE	Alin Dragomir, Maricel Adam, Silviu Marian Antohi "Gheorghe Asachi" Technical University of Iasi, , Faculty of Industrial Design and Business Management, Iasi, Romania
16.30-16.45	AUTONOMOUS MOBILE ROBOTS LOGISTICS APPLICATION USING MULTI-PARAMETRIC MODEL PREDICTIVE CONTROL – AN ARTIFICIAL INTELLIGENCE FORMULATION	Anca Maxim, Ovidiu Păucă, Constantin Florin Căruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, Iasi, Romania
16.45-17.00	EVALUATION OF POST-SEISMIC EVACUATION USING ARTIFICIAL MULTIAGENT SYSTEMS – CASE STUDY	Georgiana Bunea <sup>1</sup> , Florin Leon <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Civil Engineering and Building Services; <sup>2</sup> Faculty of Automatic Control and Computer Engineering, Iasi, Romania







17.00-17.15	ENHANCING VEHICLE ASSEMBLY WITH AI-DRIVEN GAZE DETECTION IN AUGMENTED REALITY SYSTEMS	Petronela Bonteanu, Gabriel Bonteanu "Gheorghe Asachi" Technical University of Iasi, Faculty of Electronics, Telecommunications and Information Technology, Iasi, Romania
17.15-17.30	ARTIFICIAL INTELLIGENCE SYSTEMS IN ELECTRICAL SWITCHBOARDS	Silviu Marian Antohi, Maricel Adam, Alin Dragomir "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania









#### Friday, 17 May, 2024

PLENARY SESSION 3 (Online): Friday, 17 May, 9.30-10.50

Chairperson: Prof. Alina-Adriana Minea

0.20.10.10	Photodegradable polymers and polymer	Prof. dr. MARIA VAMVAKAKI
9.30-10.10	networks	Technical University of Crete, Greece
	Dielectric spectroscopy: a viable tool for cable insulation diagnosis	Prof. dr. DAVIDE FABIANI
10.10-10.50		Alma Mater Studiorum – Università di
	Cable ilisulation diagnosis	Bologna, Italy
Link	https://meet.google.com/ztz-yeys-dxp?hs=224	

10.50-11.15 Coffee break

Onsite Session 1.7: Friday, 17 May, 11.15-12.45, SALA C101, CORP T, ET.1

**Section 1. Interdisciplinary studies** 

Chairpersons: Prof. Maria Gavrilescu, Prof. Nicolae Hurduc

Time	Oral presentation	Authors
11.15-11.30	IMMOBILIZED BACTERIAL CELLS ON A NATURAL CARBONACEOUS MATERIAL FOR DIETHYL PHTHALATE BIODEGRADATION	Emanuel Gheorghită Armanu <sup>1</sup> , Simone Bertoldi <sup>2</sup> , Christian Eberlein <sup>2</sup> , Hermann J. Heipieper <sup>2</sup> , Marius Sebastian Secula <sup>1</sup> , Irina Volf <sup>1</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania; <sup>2</sup> Helmholtz Centre for Environmental Research (UFZ), Department of Molecular Environmental Biotechnology, Leipzig, Germany (Environmental engineering)
11.30-11.45	IMPROVING THE PROFITABILITY OF SOLAR PLANTS BY INTEGRATING THEM WITH SCADA SYSTEMS AND THE ENERGY EQUILIBRIUM MARKET THROUGH THE IMPLEMENTATION OF ENERGY STORAGE SYSTEMS	Aurel-David Paizan  "Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical, Energetics and Applied Informatics Engineering, Iasi, Romania. (Electrical engineering)
11.45-12.00	CHARACTERIZATION AND ELIMINATION OF ARTIFACTS CAUSED BY CONDUCTED EMISSIONS IN ULTRASOUND IMAGING EQUIPMENT	Alexandru-Marian Bordaş, Adelina-Cristina Căsuță "Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical, Energetics and Applied Informatics Engineering (Electrical engineering)







12.00-12.15	SAFETY HELMETS RECYCLING AND SELECTION: A SHORT REVIEW	Cristian-Stefan Bunduc, Leandru Gheorghe Bujoreanu, Ramona Cimpoesu, Costica Bejinariu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering)
12.15-12.30	THE IMPACT OF TRANSCRANIAL ELECTRICAL STIMULATION ON NEUROPSYCHOLOGICAL PROCESSES IN FEAR MEMORY	Alexandru Buzamat  "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Electrical, Energetics and Applied Informatics Engineering (Electrical engineering)
12.30-12.45	K-MEANS CLUSTERING-BASED OPTIMAL PLACEMENT METHODOLOGY OF ELECTIC VEHICLE CHARGING STATIONS IN PHOTOVOLTAIC RICH DISTRIBUTION NETWORKS	Ecaterina Chelaru, Gheorghe Grigoraș "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Electrical, Energetics and Applied Informatics Engineering (Energy engineering)
12.45-13.00	NANOENCAPSULATION OF PHASE CHANGE MATERIALS: A SHORT OVERVIEW	Nicoleta Cojocariu  "Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering, Iasi, Romania (Materials science)

Onsite Session 2.7: Friday, 17 May, 14.00-15.45, SALA C101, CORP T, ET.1

**Section 1. Interdisciplinary studies** 

Chairpersons: Prof. Maria-Carmen Loghin, Prof. Aristotel Popescu

Time	Oral presentation	Authors
14.00-14.15	Synthesis and characterisation of bent core liquid crystals with cholesteryl chiral unit	Iulian Berladean <sup>1,2</sup> , Irina Carlescu <sup>1</sup> , Yahia Boussoualem <sup>2</sup> , Nicolae Hurduc <sup>1</sup> , Abdelylah Daoudi <sup>2</sup> <sup>1</sup> "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Natural and Synthetic Polymers, Iasi, Romania; <sup>2</sup> Univ. Littoral Cote d'Opale, Unite de Dynamique et Structure de Materiaux Moleculaires, Dunkerque, France (Chemistry)
14.15-14.30	INFLUENCE OF LOW FREQUENCY TRANS DERMAL ELECTRICAL IMPULSES ON THE INCREASE OF THE VAGUS NERVE TONE	Mihai Costache "Al. I. Cuza" University of Iasi, Faculty of Physics, Iasi, Romania (Physics)
14.30-14.45	BIOACTIVE COMPOUNDS IN SEA BUCKTHORN AND THEIR EFFICACY IN	Oana Cucoveică, Leonard Ionuț-Atanase "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of







	INFLAMMATORY SYNDROME OF THE ORAL CAVITY	Chemical Engineering and Environmental Protection, Iasi, Romania (Chemical engineering)
14.45-15.00	ROBOT TECHNOLOGY USED IN REHABILITATION – A STUDY COMPARISON WITH OVERGROUND GAIT TRAINING IN HEMIPLEGIC PATIENT	Marius Dobîndă "Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Iasi, Romania (Physics)
15.00-15.15	STUDY ON THE PHOTOCHEMICAL SYNTHESIS OF SILVER NANOPARTICLES USING CHEMICAL AND BIOLOGICAL REDUCERS – PRELIMINARY RESULTS	Ramona Plesnicute <sup>1</sup> , Iuliana Motrescu <sup>2</sup> , Anda Les Agavriloaei <sup>1</sup> , Dorina Creangă <sup>1</sup> <sup>1</sup> "Alexandru Ioan Cuza" University of Iasi, Faculty of Physics; <sup>2</sup> Ion Ionescu de la Brad University of Life Sciences, Iasi, Romania (Physics)
15.15-15.30	EXPLORING INNOVATIONS IN HYBRID HYDROGELS FOR EFFECTIVENESS IN TREATING VARICOSE ULCERS IN THE CONTEXT OF VASCULAR HEALTH	Elena Farcas¹, Leonard Ionuţ Atanase²,³  ¹"Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection; ²"Apollonia" University of Iasi, Romania; ³Academy of Romanian Scientists, Bucharest, Romania (Chemical engineering)
15.30-15.45	ADVANCING RESPONSIBLE TOURISM- IMPLEMENTING SUSTAINABLE DEVELOPMENT GOAL TARGETS IN TOURIST DESTINATIONS	Raluca-Maria Tâbuleac¹, Maria Gavrilescu¹,² ¹"Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania; ²Academy of Romanian Scientists, Bucharest, Romania (Environmental engineering)
	Coffee busels	

15.45-16.00 Coffee break

Onsite Session 3.7: Friday, 17 May, 16.00-17.15, SALA C101, CORP T, ET.1

**Section 1. Interdisciplinary studies** 

Chairpersons: Prof. Alexandru Sălceanu, Assoc. Prof. Bogdan Istrate

Time	Oral presentation	Authors
16.00-16.15	KEY ASPECTS REGARDING THE IMPLEMENTATION OF A PHOTOVOLTAIC PARK IN ORDER TO CREATE A REDUCTION IN CARBON EMISSIONS	Stefan-Andrei Nădăbaică  "Gheorghe Asachi" Technical University of lasi, Faculty of Electrical, Energetics and Applied Informatics Engineering, lasi, Romania.  (Electrical engineering)
16.15-16.30	A CUTTING-EDGE SENSORY DEVICE FOR EVALUATING PELVIC FLOOR MUSCLE STRENGTH	Alina Roxana Miron, Marian-Silviu Poboroniuc "Gheorghe Asachi" Technical University of lasi, Faculty of Electrical Engineering,







		Energetics and Applied Informatics, Iasi, Romania
16.30-16.45	DESIGNING, MANUFACTURING AND TESTING OF AN EXPERIMENTAL SETUP FOR THE STUDY OF SHAPE MEMORY EFFECT IN R-PET THERMOFORMED CUPS	(Electrical engineering)  Stefan Dumitru Sava¹, Mihai Axinte¹, Romario Patraș², Leandru-Gheorghe Bujoreanu¹ ¹" Gheorghe Asachi" Technical University of lasi, Faculty of Materials Science and Engineering, ²Faculty of Architecture, lasi, Romania (Materials engineering)
16.45-17.00	IN-DEPTH THEORETICAL AND EXPERIMENTAL REVIEW ON DIELECTROPHORETIC MANIPULATION OF BIOLOGICAL CELLS	Mădălina-Petronela Simion, Tudor- Alexandru Filip, Marius-Andrei Olariu "Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical, Energetics and Applied Informatics Engineering, Iasi, Romania (Electrical engineering)
17.00-17.15	EXPLORING GRADIENT BOOSTING MACHINE FOR PARKINSON'S DISEASE CLASSIFICATION USING ACCELEROMETER DATA	Andrei Stoleru  "Gheorghe Asachi" Technical University of lasi-Romania, Faculty of Automatic Control and Computer Engineering, lasi, Romania (Computers and information technology)
17.30	CSD2023 Closing ceremony (Online/Onsite)	
Link	https://meet.google.com/yhd-qinm-xgp	

#### **SOME KEY FIGURES:**

- √ 177 papers
- ✓ participants from 9 countries (authors and co-authors)
- ✓ 16 Romanian universities, 14 foreign universities
- ✓ Romanian Academy and 2 branch Romanian Academies
- ✓ 6 research and development Romanian institutes and agencies, 3 foreign research
  and development institutes and agencies
- ✓ 2 companies
- √ 1 secondary school







# THANK YOU FOR ATTENDING CSD2024!

You are welcome to the 8th Edition of the International Conference of the Doctoral School - "Gheorghe Asachi" Technical University of Iaşi, România, in May, 2025!

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