

"GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IASI, ROMANIA

5TH THE DOCTORAL SCHOOL CONFERENCE PROGRAM

18-20 MAY, 2022 IASI, ROMANIA

Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity

WWW.CONFERINTA-CSD.TUIASI.RO





5th International Conference

of the Doctoral School

"Gheorghe Asachi" Technical University of Iasi

Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity

CONFERENCE PROGRAMME

May 18 – 20, 2022 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. Computers and information technology; Systems engineering
- Section 2. Chemistry; Chemical engineering; Environmental engineering
- Section 3. Civil engineering and installations
- Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology
- Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management





Organizer Message

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

At its fifth edition, the International Conference of the Doctoral School at the "Gheorghe Asachi" Technical University of Iasi (TUIASI) aims to provide PhD students of the Doctoral Schools from Technical Universities in Romania and abroad with a favourable framework for communicating the results of their research, exchanging ideas and initiating new collaborations, refine their theoretical and methodological approaches, encouraging presentation and continuous development of interdisciplinary research. The three days' conference (18th-20th of May, 2022) consist of five panel sessions, where PhD students can present and discuss their research papers. The program of the conference will also include a number of plenary presentations held by prestigious professors from universities with which TUIASI has close collaborations.

The conference aims to bring together miscellaneous oral presentations dealing with relevant problems associated to the thirteen doctoral fields at the university: Chemistry; Computers and information technology; Chemical engineering; Civil engineering and installations; Electrical engineering; Electronic engineering, telecommunications and information technologies; Energetic engineering; Industrial engineering; Materials engineering; Mechanical Engineering; Environmental engineering; Systems engineering; Engineering and management.

Bridging the scientific doctoral fields, encouraging the innovation through interdisciplinary collaboration, and the orientation towards internationalization, this event can offer an intellectual intersection between disciplines in which new ideas and progress in science would appear. This way the doctoral programs can be implemented with a focus on training PhD students for research and acquiring a set of core competencies that will allow for the immediate transfer to social institutions in search of a sustainable economy. For PhD students in the earlier stages of doctoral studies, the conference provides an opportunity to train for their first contributions to a certain scientific field, while for the PhD students in later stages, the communications held during conference can be seen as a scientific step towards the jobs market.

Welcome to CSD2022, wishing you a successful conference!

Honorary President,

Professor **Dan CAȘCAVAL** Rector TUIASI





Conference committees

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- Assist.prof.dr. Elena Ionela Chereches (Section 5) (elenaionela.chereches@academic.tuiasi.ro)





General information

About our university

"Gheorghe Asachi" Technical University of Iasi is one of the most prestigeous 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 Iasi, 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 5th edition of the International Conference of the Doctoral School of IOSUD "Gheorghe Asachi" Technical University of Iasi (CSD2022), which is organized under the generic "Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity" is programmed during May 18-20, 2022 as videoconference (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 4 parallel sessions, each sessions being organized in 3 blocks, coordinated by a chairperson, separated by coffee breaks or lunch.

The Conference will be developed on **ZOOM platform**, at links which are communicated to the attendees and guests before conference start, on the conference website.

VERY IMPORTANT

The authors who will hold oral presentations 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.

Oral presentations will be given in English.

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

Contact persons:

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alina-adriana.minea@academic.tuiasi.ro; +40 723455071

Contact persons for Parallel Sessions:

Parallel Session 1: Prof. dr. Alina-Adriana Minea

Parallel Session 2: Secr. Sabina Bobu (sabina.bobu@staff.tuiasi.ro)

Parallel Session 3 and 4: Assist. prof. dr. Elena Ionela Chereches (elena-ionela.chereches@academic.tuiasi.ro)

Information about CSD2022 can be found on Facebook, as well: https://www.facebook.com/csdtuiasi





GENERAL CSD2021 CONFERENCE PROGRAM

Wednesday, 18 May, 2022

Time	Event			
9.00-9.25	Opening ceremony			
9.30-10.10	Plenary Confere			
10.10-10.50	Plenary Confere	nce 2		
Link	https://zoom.us/j/	93766244066?pwd=F	RUFQL3Fyd2JrbTJCW	TVrRExVVUxzZz09
10.50-11.15	Coffee Break	-		
10.50-11.15	conce break			-
	Parallel	Parallel	Parallel	Parallel
	Session 1.1	Session 2.1	Session 3.1	Session 4.1
	Section 1.	Section 2.	Section 3.	Section 4.
	Computers and	Chemistry; Chemical	Civil engineering	Electrical
	information	engineering;	and installations	engineering; Energy
11.15-12.45	technology; Systems			engineering;
	engineering			Electronic
				engineering,
				telecommunications
				and information
				technology
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	<u>/94176607894?p</u>	<u>/96894829837?p</u>	<u>/98283377167?p</u>	<u>/95975675051?p</u>
Link	wd=clFFaDd3UkF	wd=eEVVY0NBYk	wd=ckpaSW82Nn	wd=UE13c2JBUjlR
	RNERXbnl2U2RQR	dVcExMOGhnaVR	NQQWZyTnJrMC9	UGx3Qk5CNVVHT
	<u>m1ldz09</u>	FZ0hiZz09	PcVBIQT09	WNnQT09
12.45-14.00	Lunch			
12.45-14.00	Lunch		-	-
	Parallel	Parallel Session	Parallel Session	Parallel Session
	Session 1.2	2.2	3.2	4.2
	Section 1.	Section 2.	Section 3.	Section 2.
	Computers and	Chemistry; Chemical	Civil engineering	Chemistry; Chemical
	information	engineering;	and installations	engineering;
14.00-15.30	technology; Systems	Environmental		Environmental
14.00 13.30	engineering	engineering		engineering
	and information			Section 5.
	technology			Mechanical
				engineering;
				Industrial
				engineering;





				Materials
				engineering;
				Engineering and
				management
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	<u>/93257315783?p</u>	<u>/92604037763?p</u>	<u>/95005305500?p</u>	<u>/91235013674?p</u>
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	K2dDN0liVk5jRTF	YXA3Um5lb1FFdU	MyQ2M3ME1zVlg	0M3JnbWNoMUJ
	<u>5UT09</u>	<u>oyQT09</u>	wQlRpZz09	mRTExdz09
	Γ	-		
15.30-16.00	Coffee Break			
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	Parallel	Parallel Session	Parallel Session	Parallel Session
	Session 1.3	2.3	3.3	4.3
	Section 4.	Section 2.	Section 3.	Section 5.
	Electrical	Chemistry; Chemical	Civil engineering	Mechanical
10 00 10 00	engineering; Energy	engineering;	and installations	engineering;
16.00-18.00	engineering;	Environmental		Industrial
	Electronic	engineering		engineering;
	engineering,			Materials
	telecommunications			engineering;
	and information			Engineering and
	technology			management
	<u>https://zoom.us/j</u>	<u>https://zoom.us/j</u>	<u>https://zoom.us/j</u>	<u>https://zoom.us/j</u>
	<u>/97741534566?p</u>	<u>/92859548644?p</u>	<u>/91743494288?p</u>	<u>/95157142140?p</u>
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	xam53UitJa0l5c1	wL2pYV3N2YW9n	xVHYwOE4yWmtE	d2NSdmdjbXhRN
	xamssonsausci	WLZPTV5NZTVV9II	XVHTWOE49VVIIILE	

Thursday, 19 May, 2022

Time	Event	
9.30-10.10	Plenary Co	onference 3
10.10-10.50	Plenary Co	onference 4
Link	https://zoom.us/j/93334424942?pwd=aTkveVFmVUlkZTk0SWpOWHYybkYrQT09	
10.50-11.15	Coffee Break	





	Parallel	Parallel	Parallel	Parallel
	Session 1.4	Session 2.4	Session 3.4	Session 4.4
	Section 5.	Section 2.	Section 5.	Section 2.
	Mechanical	Chemistry;	Mechanical	Chemistry; Chemical
	engin666eering;	Chemical	engineering;	engineering;
11.15-12.45	Industrial	engineering;	Industrial	Environmental
	engineering;	Environmental	engineering;	engineering
	Materials	engineering	Materials	Section 3. Civil
	engineering;		engineering;	engineering and
	Engineering and	1000	Engineering and	installations
	management		management	motanations
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	99036779328?pwd	j/93380585202?p	<u>/91649831475?p</u>	<u>/97144066341?p</u>
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	<u>kVxZTRHbVJXQWV</u>	4NUxQNEEyQ3V	WpCK1NxUWdLU	bkJIRTFMOEVRbD
	Hdz09	neEZtUT09	0VnMUVOQT09	<u>ZQUT09</u>
12.45-14.00	Lunch			
	Parallel	Parallel	Parallel	Parallel
	Session 1.5	Session 2.5	Session 3.5	Session 4.5
	Section 4.	Section 2.	Section 4.	Section 2.
	Electrical	Chemistry;	Electrical	Chemistry; Chemical
	engineering; Energy	Chemical	engineering; Energy	engineering; Environmental
14.00-15.30	engineering; Electronic	engineering; Environmental	engineering; Electronic	engineering
	engineering,	engineering	engineering,	chgineering
	telecommunications	chighteething	telecommunications	
	and information		and information	
	technology		technology	
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	WpXQT09	<u>sOVpVQT09</u>	<u>Cs5Zz09</u>	<u>5ZWJvUT09</u>
15.30-16.00	Coffee Break			
15.50-10.00	Collee break			
	Parallel	Parallel	Parallel	Parallel
	Session 1.6	Session 2.6	Session 3.6	Session 4.6
	Section 4.	Section 2.	Section 4.	Section 5.
	Electrical	Chemistry;	Electrical	Mechanical
16.00-17.45		Chemical		
	engineering; Energy		engineering; Energy	engineering; Industrial
	engineering;	engineering;	engineering;	
	Electronic	Environmental	Electronic	engineering;
		engineering		Materials





	engineering,		engineering,	engineering;
	telecommunications		telecommunications	Engineering and
				management
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	94825148108?pwd	j/99826303759?p	<u>/99557536461?p</u>	<u>/96007277519?p</u>
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	dRenFMR20vRkRM	IYMWVGTCtsZzF	ETWIIUkhtV0VMc	3Ykw0Q1hUc1hsb
	<u>QT09</u>	OYnJBZz09	FB3Zz09	TE3dz09

Friday, 20 May, 2022

Time	Event
9.30-10.10	Plenary Conference 5
10.10-10.50	Plenary Conference 6
Link	https://zoom.us/j/94345133250?pwd=UnA5NGszYXNGUkw0R1F3bS9ndVBTQT09

10.50-11.00 Short Break

	Parallel	Parallel	Parallel	Parallel
	Session 1.7	Session 2.7	Session 3.7	Session 4.7
	Section 5.	Section 4.	Section 5.	Section 5.
	Mechanical	Electrical	Mechanical	Mechanical
	engineering;	engineering;	engineering;	engineering;
11.00-13.00	Industrial	Energy	Industrial	Industrial
	engineering;	engineering;	engi <mark>neering;</mark>	engineering;
	Materials	Electronic	Mat <mark>erials</mark>	Materials
	engineering;	engineering,	engin <mark>eering;</mark>	engineering;
	Engineering and	telecommunications	Engineering and	Engineering and
	management	and information	management	management
		technology		
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	91843262624?pwd	<u>j/94041116219?p</u>	<u>/99557536461?p</u>	<u>/96007277519?p</u>
Link	=a1NFdnppbUpZeX	wd=eXdQSjMyYU	wd=ZG50bFN0Z0p	wd=RXFiVVVzb2Y
	hUU2hXbS9vbUZD	t6NE1UUzdJTHhR	ETWIIUkhtV0VMc	3Ykw0Q1hUc1hsb
	<u>UT09</u>	MnZYdz09	FB3Zz09	<u>TE3dz09</u>
13.00-13.15	Coffee Break			





	Parallel Session	Parallel	Parallel	Parallel
	1.8	Session 2.8	Session 3.8	Session 4.8
	Section 5.	Section 4.	Section 5.	Section 5.
	Mechanical	Electrical	Mechanical	Mechanical
	engineering;	engineering;	engineering;	engineering;
	Industrial	Energy	Industrial	Industrial
	engineering;	engineering;	engineering;	engineering;
	Materials	Electronic	Materials	Materials
	engineering;	engineering,	engineering;	engineering;
	Engineering and	telecommunicatio	Engineering and	Engineering and
	management	ns and information	management	management
.3.15-15.00	-	technology		
	A 1	Section 5.		
		Mechanical		
	100	engineering;		
	11 11 11 11	Industrial		
	1 - A - P - A - A	engineering;		
		Materials		
		engineering;		
		Engineering and		
		management		
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	pNzJPeWk3QnpxZz	tTGZiWXZtWGps	mVPT1l3QWdmVV	dUb3RjUmtaeFBk
	09	VzQ1YkZVZz09	hpZz09	alN6dz09

15.00-15.30	Closing ceremony
Link	https://zoom.us/j/92583255008?pwd=N3pjMTVab1B1RnFobjcvbmdhV0N0UT09





CSD2021 DETAILED CONFERENCE PROGRAM

Wednesday, 18 May, 2022

Time		Event		
	Opening ceremony			
		Director of the Council for Doctoral Studies,		
	Duct du Aline Adviene Mines	"Gheorghe Asachi" Technical University of Iasi,		
	Prof.dr. Alina-Adriana Minea	Romania		
9.00-9.25		President of CSD2022		
	Deaf de Dan Germand	Rector of the Technical University of Iasi, Romania		
5.00-5.25	Prof.dr. Dan Cașcaval	Honorary President of CSD2022		
	Duct du Courses Merie Lochin	Vice-Rector		
	Prof.dr. Carmen-Maria Loghin	Scientific Research, Development and Innovation		
	-	Director of the Doctoral School, "Gheorghe Asachi"		
	Prof.dr. Maria Gavrilescu	Technical University of Iasi, Romania		
		Co-President of CSD2022		

PLENARY SESSION 1

Chairperson: Prof.dr. Alina-Adriana Minea

	Photovoltaic Thermal Hybrid Solar	Prof. Monica Siroux
9.30-10.10	Collectors: State of the Art and	University Strasbourg, National Institute of Applied
	Recent R&D Activities	Science (INSA), Strasbourg, France
	Collaborative Interdisciplinary	Prof.dr. Romeo-Cristian Ciobanu
10.10-10.50	Research with Industry – Success	"Gheorghe Asachi" Technical University of Iasi,
	Stories of TUIASI	Romania
11.50-11.15	Coffee Break	

Parallel Session 1.1: Wednesday, 18 May, 11.15-12.45

Section 1. Computers and information technology; Systems engineering Chairperson: Assoc. Prof. dr. Robert Lupu

Time	Oral presentation	Authors
	Advent of Wasserstein	Shubham Rana, Salvatore Gerbino
	generative adversarial networks	University of Campania "Luigi Vanvitelli",
11.15-11.30	with gradient penalty for	Department of Engineering, 29 Via Roma, Aversa
	synthesising agricultural weed	(CE), 81031, Italy
	images	(Communication)





11.30-11.45	Security and encryption of data used in cloud computing	<u>Alexandra Boţan</u> Transilvania University of Brasov, Faculty of Electrical Engineering and Computer Science, Mihai Viteazul Street 5, Braşov, 500174, Brasov, Romania (Computers and information technology)
11.45-12.00	A short survey of the development and applications of Spiking Neural Networks of high biological plausibility	George-Iulian Uleru, Mircea Hulea, Vasile-Ion Manta "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Automatic Control and Computer Engineering, 27 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Computers and information technology)
12.00-12.15	What factors influence technology adoption in Europe? A panel data approach	Eugenia Oana, Monica Roman Bucharest University of Economic Studies, Bucharest, Romania (Economic informatics)
12.15-12.30	Comparison of linear quadratic regulator and model predictive control based algorithms in continuous pharmaceutical manufacturing	Amelia Chindrus ¹ , Dana Copot ² , Constantin-Florin Căruntu ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Automatic Control and Computer Engineering, 27 Prof. D. Mangeron Blvd., 700050, Iasi, Romania ² Ghent University, Belgium, Faculty of Engineering and Architecture, 125 Tech Lane Science Park, 9052, Ghent, Belgium (Systems engineering)
12.30-12.45	Agile approaches to developing e-Business solutions in a secure cyber environment in 2022	<u>Marius Ștefan</u> Bucharest University of Economic Studies, Bucharest, Romania (Economic informatics)
12.45-14.00	Lunch	

Parallel Session 2.1: Wednesday, 18 May, 11.15-12.45

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Daniela Șuteu

Time	Oral presentation	Authors
11.15-11.30	Perspective studies on heat generation of magnetic nanocrystals	Julia Natalia MajcherkiewiczSalgueiriño ^{1,2} ¹ Departamento de Física Aplicada, Universidade deVigo, 36310 Vigo, Spain ² CINBIO, Universidade de Vigo, 36310 Vigo, Spain(Applied physics)
11.30-11.45	Synthesis and liquid crystalline properties of some symmetric seven rings isophthalic acid	Iulian Berladean ^{1,2} ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Chemical Engineering and





	derivatives with bent-core	Environmental Protection, Bd D. Mangeron 71A,
	molecules	700050 lasi, Romania
		² Université du Littoral Côte d'Opale, Unité de
		Dynamique et Structure des Matériaux Moléculaires.
		MERI1, 145 Av., Maurice Schumann 59140
		Dunkerque, France
		(Chemistry)
		Luigi Marra ¹ , Luigi D'Elia ² , Francesca Raganati ¹ ,
		Antonino Pollio ³ , Antonio Marzocchella ¹
		¹ Università degli studi di Napoli Federico II, DICMaPI,
	Preliminary results of microalgae	Piazzale Tecchio 80125, Napoli, Italia
11.45-12.00	growth/processing aimed at	² Loop S.r.l., V.le A. Gramsci 17/B, 80122, Napoli, Italy
	antinflammatory/antioxidant	³ Università degli studi di Napoli Federico II,
	production	Dipartimento di Biologia, Via Cintia, 80126, Napoli,
		Italia
		(Industrial biotechnology)
	Investigations on extracts of	Delia Turcov, Daniela Șuteu, Simona Barna
	indigenous spontaneous flora of	"Gheorghe Asachi" Technical University of Iasi,
	Galium verum L. and their	Romania, "Cristofor Simionescu" Faculty of
12.00-12.15		
	potential as a bioactive	Chemical Engineering and Environmental Protection,
	ingredients source for dermato-	73 Prof. D. Mangeron Blvd., 700050, Iasi, Romania
_	cosmetic products	(Chemical engineering)
		Sorina-Alexandra Leau ^{1,2} , Cecilia Lete ¹ , Stelian Lupu ²
		¹ Institute of Physical Chemistry "Ilie Murgulescu" of
		the Romanian Academy, Electrochemistry-Corrosion
	Highly sensitive electrochemical	Department, 202 Splaiul Independentei, 022328
	sensor based on poly (3,4-	Bucharest, Rom <mark>ania</mark>
12.15-12.30	ethylenedioxythiophene) and Pt	² University Politehnica of Bucharest, Faculty of
	nanoparticles for biologically	Chemical Engineering and Biotechnologies,
	active compounds determination	Department of Analy <mark>tical Chemistry and</mark>
		Environmental Engine <mark>ering, 1-7 Polizu G</mark> h. Street,
		011061 Bucharest, Romania
		(Chemical engineering)
		Paula Simionescu, Gabriela Lisa
	Comparative studies of physical	["] Gheorghe Asachi" Technical University of Iasi,
	and thermal properties of	Romania, "Cristofor Simionescu" Faculty of Chemical
12.30-12.45	cooking oils and used cooking	Engineering and Environmental Protection, 73 Prof.
	oils	D. Mangeron Blvd., 700050, Iasi, Romania
		Chemical engineering)





Parallel Session 3.1: Wednesday, 18 May, 11.15-12.45

Section 3. Civil engineering and installations Chairperson: Assoc. Prof. dr. Petru Mihai

Time	Oral presentation	Authors
		Laurentiu Adam, Dorina Nicolina Isopescu "Gheorghe Asachi" Technical University of Iasi,
	Bio based leveling screed - an	Romania, Faculty of Civil Engineering and
11.15-11.30	eco - sustainable solution for	Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi,
	construction industry	Romania
		(Civil engineering and installations)
		Ludovic Călcîi, Ladislau Radermacher, Andrei Burlacu
	Experimental study on the	"Gheorghe Asachi" Technical University of Iasi,
11 20 11 45	determination of hydrogen	Romania, Faculty of Civil Engineering and
11.30-11.45	permeability of steel distribution	Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi,
	pipes	Romania
		(Civil engineering and installations)
		Eduard Gabriel Voicu, Iancu-Bogdan Teodoru
	Stress analysis of masonry walls	"Gheorghe Asachi" Technical University of Iasi,
11.45-12.00	in case of underpinning	Romania, Faculty of Civil Engineering and
11.45-12.00	consolidation works	Installations, 1 Prof. D. Mangeron Blvd., 700050, lasi,
		Romania
		(Civil engineering and installations)
		<u>Alexandra Pamfil, Petru Mihai</u>
	Compression resistance of	"Gheorghe Asachi" Technical University of Iasi,
12.00-12.15		Romania, Faculty of Civil Engineering and
	concrete	Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi,
		Romania
		(Civil engineering and installations)
		<u>Ştefănica-Eliza Vizitiu,</u> Andrei Burlacu, Robert Ștefan
	Numerical analysis on thermal	Vizitiu
	comfort in rooms using	"Gheorghe Asachi" Technical University of lasi,
12.15-12.30	convective heating and radiant	Romania, Faculty of Civil Engineering and
	heating terminals	Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi,
		Romania
		(Civil engineering and installations)
		<u>Sergiu George Petre</u> , Dorina Nicolina Isopescu, Marian Pruteanu
12.30-12.45	Study on the moisture conditions	Robert Ștefan Vizitiu
	assessment in the rehabilitated	"Gheorghe Asachi" Technical University of lasi,
	envelope of buildings	Romania, Faculty of Civil Engineering and
	prefabricated concrete panels	Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi,
		Romania
		(Civil engineering and installations)
	1	
12.45-14.00	Lunch	





Parallel Session 4.1: Wednesday, 18 May, 11.15-12.45

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technologyChairperson: Prof.dr. Gheorghe Grigoraș

Time	Oral presentation	Authors
		Cosmin-Florin Acsinte, Florin-Constantin Baiceanu,
		Ciprian-Mircea Nemeș
	The factor of the state of the state	"Gheorghe Asachi" Technical University of Iasi,
11.15-11.30	The impact of distributed generation	Romania, Faculty of Electrical Engineering,
	on the voltage profile	Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Energy engineering)
	Equivalence of the Romanian	Ionuț Ilișescu
	terminology with the European	"Gheorghe Asachi" Technical University of Iasi,
	terminology regarding the power	Romania, Faculty of Electrical Engineering,
11.30-11.45	reserves necessary to ensure the	Energetics and Applied Informatics, 21-23 Prof. D.
	frequency-power regulation in the	Mangeron Blvd., 700050, Iasi, Romania
	electricity transmission systems	(Energy engineering)
		Ovidiu-Cătălin Carp, Mihai Gavrilaș
	- A.	"Gheorghe Asachi" Technical University of Iasi,
	Modern approaches for the Optimal	Romania, Faculty of Electrical Engineering,
11.45-12.00	Power Flow problem in distribution	Energetics and Applied Informatics, 21-23 Prof. D.
	networks	Mangeron Blvd., 700050, lasi, Romania
		(Energy engineering)
		Mihaela Nastase, Mihai Gavrilas
		"Gheorghe Asachi" Technical University of Iasi,
	Energy efficiency for buildings and its	Romania, Faculty of Electrical Engineering,
12.00-12.15	role in reducing climate change	Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Energy engineering)
		Mihai-Alexandru Ghidu, Ciprian Nemes
		"Gheorghe Asachi" Technical University of Iasi,
	Reliability assessment using Monte	Romania, Faculty of Electrical Engineering,
12.15-12.30	Carlo Method	Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Energy engineering)
		Nicușor Constantin Toma, Mihai
	Load models for power and energy	Gavrilaş"Gheorghe Asachi" Technical University of
	loss assessment in electric	Iasi, Romania, Faculty of Electrical Engineering,
12.30-12.45	distribution networks with	Energetics and Applied Informatics, 21-23 Prof. D.
	probabilistic methods	Mangeron Blvd., 700050, Iasi, Romania
		(Energy engineering)
12.40-14.00	Lunch	





Parallel Session 1.2: Wednesday, 18 May, 14.00-15.30

Section 1. Computers and information technology; Systems engineering Chairperson: Prof.dr. Marius Kloetzer

a mixture of flammable/explosive gasesMine Safety and Protection to Explosion – INSEMEX Petroşani, 32-34 G-ral. V. Milea Street, Romania (Systems engineering)14.15-14.30A brief overview of Federated Learning - a new perspective on privacy characterIuliana-Alexandra Lipovanu, Carlos-Mihai Pascal "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)14.30-14.45Comparison of CNN architectures for Visual Servoing SystemsAdrian-Paul Botezatu, Teodor Sauciuc, Lavinia Ferariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)14.30-14.45Comparative analysis between 4G LTE and SG NR: An evaluation of cellular communications for V2X technologyRazvan-Gabriel Lazar, Constantin-Florin Căruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.00-15.15CNN-based Semantic Segments of a RobotTecdor Sauciuc, Paul Botezatu, Lavinia Ferariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.15-15.30Data fusion techniques based on interconnected vehicle sensorsPaulina-Larisa Ceorneg, Constantin-Florin Caruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.15-15.3	Time	Oral presentation	Authors
A brief overview of Federated Learning - a new perspective on privacy character"Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)14.30-14.45Comparison of CNN architectures for Visual Servoing SystemsAdrian-Paul Botezatu, Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)14.45-15.00Comparative analysis between 4G LTE and 5G NR: An evaluation of cellular communications for V2X technologyRazvan-Gabriel Lazar, Constantin-Florin Căruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.00-15.15CNN-based Semantic Segmentation for Detecting the Segments of a RobotTeodor Sauciuc, Paul Botezatu, Lavinia Ferariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.00-15.15Data fusion techniques based on interconnected vehicle sensorsTeodor Sauciuc, Paul Botezatu, Lavinia Ferariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.15-15.30Data fusion techniques based on interconnected vehicle sensorsPaulina-Larisa Ceornea, Constantin-Florin Caruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi,<	14.00-14.15	system used for the preparation of a mixture of flammable/explosive	Gheorghe-Daniel Florea, Zoltan Vass National Institute for Research & Development in Mine Safety and Protection to Explosion – INSEMEX Petroșani, 32-34 G-ral. V. Milea Street, Romania
14.30-14.45Comparison of CNN architectures for Visual Servoing SystemsFerariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)14.45-15.00Comparative analysis between 4G LTE and 5G NR: An evaluation of cellular communications for V2X technologyRazvan-Gabriel Lazar, Constantin-Florin Căruntu 	14.15-14.30	Learning - a new perspective on	"Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania
14.45-15.00Comparative analysis between 4G LTE and 5G NR: An evaluation of cellular communications for V2X technology"Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)15.00-15.15CNN-based Semantic Segmentation for Detecting the Segments of a RobotTeodor Sauciuc, Paul Botezatu, Lavinia Ferariu, 	14.30-14.45		Adrian-Paul Botezatu, Teodor Sauciuc, Lavinia Ferariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania
L5.00-15.15CNN-based Semantic Segmentation for Detecting the Segments of a RobotAdrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)L5.15-15.30Data fusion techniques based on interconnected vehicle sensorsPaulina-Larisa Ceornea, Constantin-Florin Caruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)	14.45-15.00	LTE and 5G NR: An evaluation of cellular communications for V2X	"Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania
15.15-15.30Data fusion techniques based on interconnected vehicle sensors"Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania (Systems engineering)	15.00-15.15	for Detecting the Segments of a	Teodor Sauciuc, Paul Botezatu, Lavinia Ferariu, Adrian Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania
15 20, 16, 00 Coffee Break	15.15-15.30		Paulina-Larisa Ceornea, Constantin-Florin Caruntu "Gheorghe Asachi" Technical University of Iasi, Faculty of Automatic Control and Computer Engineering, 27 Mangeron Blvd., 700050, Iasi, Romania
	15.30-16.00	Coffee Break	





Parallel Session 2.2: Wednesday, 18 May, 14.00-15.30

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Silvia Curteanu

Time	Oral presentation	Authors
14.00-14.15	Effect of pH on the H-B-E fermentation by <i>Clostridium</i> <i>carboxidivorans</i> carried out in a continuous stirred tank bioreactor	Fabiana Lanzillo, Francesca Raganati, Antonio Marzocchella Università degli studi di Napoli Federico II, Piazzale Tecchio 80125, Napoli, Italia (Industrial biotechnology)
14.15-14.30	The use of thermogravimetric analysis in the study of the sublimation process	Cerasela-Ionela Cleminte, Gabriela Lisa "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and EnvirBlvd., 700050, Iasi, Romania (Chemical engineering)
14.30-14.45	A comparative study on the efficiency of biopesticides from spontaneous flora against deposit pests	Gabriel Mihăiță Daraban ¹ , Marinela Bădeanu ² , Daniela Șuteu ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering, 73 Prof. Mangeron Blvd., 700050, Iasi, Romania ² "Ion Ionescu de la Brad" University of Life Sciences of Iasi, Faculty of Horticulture, Department of Horticultural Technologies, 3 Mihail Sadoveanu Alley, 700490, Iasi, Romania (Chemical engineering)
14.45-15.00	Diffusion models for chitosan release from different types of matrixes	Manuela Alexandru, Ioan Mamăligă "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering, 73 Prof. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
15.00-15.15	Methods for magnesium adsorbent syntesis for Congo Red removal	Luisa-Maria Trifas, Maria Harja "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering, 73 Prof. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
15.15-15.30		Alexandra Tanasă, Daniela Șuteu "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, 73 Prof. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)





15.30-16.00 Coffee Break

Parallel Session 3.2: Wednesday, 18 May, 14.00-15.30

Section 3. Civil engineering and installations Chairperson: Assoc. Prof. dr. Petru Mihai

Time	Oral presentation	Authors
14.00-14.15	Tackling sustainability in today's building climate	<u>Cosmin-Ionut Gosav</u> "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
14.15-14.30	Self compacting concrete with brick dust and fly ash	Vlad Panaite "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
14.30-14.45	Quantification and reduction of shear modulus uncertainties using modern bender elements	Zakaria Owusu-Yeboah, Andreea-Vasilica Dascalu, Mircea Aniculaesi "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
14.45-15.00	Behavioral analysis of high density polyethylene gas distribution pipes under load	Ludovic Călcîi, Ladislau Radermacher, Andrei Burlacu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
15.00-15.15	Geotechnical behavior of an expansive soil improved with waste tyre crumb rubber determined by laboratory tests	Stefan-Dan Sofron, Mircea Aniculaesi, Florin Bejan "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
15.15-15.30	The importance of architectural- structural conformation of reinforced concrete frame buildings in the preliminary seismic design stage	Ion Sococol, Petru Mihai, Tudor-Cristian Petrescu, Bogdan-Ionel Luca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
15.30-16.00	Coffee Break	
-0.00 10.00		





Parallel Session 4.2: Wednesday, 18 May, 14.00-15.30

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

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Leandru-Gheorghe Bujoreanu

Time	Oral presentation	Authors
14.00-14.15	Methodology for design, characterization, and convective analysis through a double-tube heat exchanger for nanofluids	Uxía Calviño ¹ , José Fernández-Seara ² , Luis Lugo ¹ ¹ CINBIO, Universidade de Vigo, Grupo GAME, Departamento de Física Aplicada, 36310 Vigo, Spain ² Área de Máquinas e Motores Térmicos, Escola de Enxeñería Industrial, Universidade de Vigo, 36310 Vigo, Spain (Materials engineering)
14.15-14.30	Investigation of biodegradability properties for FeMnSi alloy	Ana-Maria Roman, Nicanor Cimpoesu ["] Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)
14.30-14.45	The knowledge of mortars with micro and nanometric inserts in the field of historical buildings restoration	Elena Basalic ^{1,2} , Carmen Nejneru ¹ , Ioana-Sorina Entuc ² , Nicanor Cimpoesu ^{1"} Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, ^{2"} Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Construction and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)
14.45-15.00	In vitro corrosion behavior and mechanical properties of Zn3MgxY alloy in simulated body fluid	Cătălin Panaghie, Nicanor Cimpoeșu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)
15.00-15.15	Quantitative study of the melt degradability of modified and unmodified renewable polyesters	Mihail Dragne ^{1,2,3} , Florentina Miu ³ , Maria Ciuca ² , Doina Dimonie ^{1,2} ¹ University Politehnica of Bucharest, Doctoral school "Applied Chemistry and Materials Science", 313 Splaiul Independentei, Bucharest, Romania ² National Institute for Research and Development in Chemistry and Petrochemistry, 202 Splaiul Independentei Street, Bucharest, Romania ³ PROMATERIS SA, Bucharest-Targoviste Street, no.1, Buftea, Romania (Chemical engineering)





15.15-15.30	The antimicrobial action of nanoemulsions based on essential oils	<u>Oana Cucoveică,</u> Leonard Ionuț Atanase "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, 73 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
15.30-16.00	Coffee Break	

Parallel Session 1.3: Wednesday, 18 May, 16.00-17.30

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology Chairperson: Assoc.Prof.dr. Dan-Marius Dobrea

Time	Oral presentation	Authors
16.00-16.15	Discrimination of focal and non- focal epileptic EEG signals using different types of classifiers	<u>Mădălina-Giorgiana Murariu</u> , Daniela Tărniceriu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology, 11A Carol I Blvd., 700506, Iasi, Romania (Electronic engineering, telecommunications and information technology)
16.15-16.30	A study regarding compatibility between MFCN operating in C- band and Radio Altimeters	Georgian Grigorel, Ion Bogdan "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology, 11A Carol I Blvd., 700506, Iasi, Romania (Electronic engineering, telecommunications and information technology)
16.30-16.45	Positioning key elements for increasing localization precision of the VRUs in 5G NR environments	Andreea V. Militaru ¹ , Ion Bogdan ¹ , Ciprian R. Comsa ¹ , Constantin F. Caruntu ² ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology, 11A Carol I Blvd., 700506, Iasi, Romania "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Automatic Control and Computer Engineering, 27 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electronic engineering, telecommunications and information technology)
16.45-17.00	The concept of smart city - image detection using embedded computer boards	Marius-Emanuel Obreja "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electronics, Telecommunications and Information Technology, 11A Carol I Blvd., 700506, Iasi, Romania (Electronic engineering, telecommunications and information technology)





		Marius Iordache, Cristian Patachia, Ion Bogdan
		"Gheorghe Asachi" Technical University of Iasi,
	Advanced telco architectures for	Romania, Faculty of Electronics, Telecommunications
17.00-17.15		and Information Technology, 11A Carol I Blvd., 700506,
	NetApps onboarding	lasi, Romania
		(Electronic engineering, telecommunications and
		information technology)
		Cristian Patachia-Sultanoiu, Marius Iordache, Ion
		Bogdan
		"Gheorghe Asachi" Technical University of Iasi,
17.15-17.30	Experimentation facility to	Romania, Faculty of Electronics, Telecommunications
17.13-17.30	evaluate 5g-native NetApps	and Information Technology, 11A Carol I Blvd., 700506,
		lasi, Romania
		(Electronic engineering, telecommunications and
		information technology)

Parallel Session 2.3: Wednesday, 18 May, 16.00-17.45

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Assoc.Prof.dr. Brînduşa-Mihaela Sluşer

Time	Oral presentation	Authors
16.00-16.15	Removal of chlorophenols from aqueous solutions by photocatalytic oxidation	Giovanina Iuliana Lupu, Liliana Bobirică, Constantin Bobirică, Cristina Orbeci University Politehnica of Bucharest, Faculty of Chemical Engineering and Biotechnologies, Department of Analytical Chemistry and Environmental Engineering, 1-7 Gheorghe Polizu, 011061 Bucharest Romania (Environmental engineering)
16.15-16.30	Comparative assessment of major and trace elements in some mineral waters from Slănic Moldova	Lavinia Misăilă ^{1,2} , Narcis Bârsan ¹ , Dumitra Răducanu ³ , Cristian Radu ⁴ , Luminița Grosu ¹ , Oana- Irina Patriciu ¹ , Lucian Gavrilă ¹ , Adriana-Luminița Fînaru ¹ ¹⁷ Vasile Alecsandri" University of Bacău, Faculty of Engineering, 156 Calea Marasesti, 600115, Bacau ² "Dimitrie Ghika" Technical College Comanesti, 1, Liceului Street, 605200, Comanesti, Romania ³ "Vasile Alecsandri" University of Bacău, Faculty of Science, 156 Calea Marasesti, 600115, Bacau, Romania ⁴ Bacau Water Quality Laboratory, 1, Cuza Voda Street, 600274, Bacau, Romania (Environmental engineering)
16.30-16.45	Removal of metal ions of Cu(II), Co(II) and Zn(II) from aqueous media using biochar obtained from algae biomass	Alina-Alexandra Ciobanu ¹ , Gabriela Vasile ² , Laura Bulgariu ¹ ^{1"} Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical





		Engineering and Environmental Protection, 73 Prof. D: Mangeron Blvd., 700050, Iasi, Romania ² National Research and Development Institute for Industrial Ecology ECOIND, Bucharest, Romania (Environmental engineering) Crinuta Larisa Ortovan ¹ , Daniela Suteu ² , Irina Volf ¹ ,
16.45-17.00	Application of different types of residual biomass for retaining of some emerging pollutants from industrial effluents	 Carmen Zaharia¹ ^{1"}Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73A Prof. D. Mangeron Blvd., 700050, Iasi, Romania ^{2"}Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Department of Organic, Biochemical and Food Engineering, 3A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Environmental engineering)
17.00-17.15	Economic and environmental cost analysis of food waste recovery alternatives	Ersilia Coşbuc ¹ , Elena-Diana Ungureanu-Comanita ¹ , Maria Gavrilescu ^{1,2} ¹ "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73 Prof. Mangeron Bd., 700050, Iasi, Romania ² Academy of Romanian Scientists, 3 Ilfov Street, 050044, Bucharest, Romania (Environmental engineering)

Parallel Session 3.3: Wednesday, 18 May, 16.00-18.00

Section 3. Civil engineering and installations Chairperson: Assoc.Prof.dr. Petru Mihai

Time	Oral presentation	Authors
16.00-16.15 Da	Dangers of heights	Mircea Sărăcuț University of Petrosani, 20 Universitatii Street, Petrosani, Romania
		(Industrial engineering)
16.15-16.30	Studies and research on the phenomenon of hydrodynamic erosion in riverbeds	Petru-Daniel Brănianu, Mihail Luca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, 65 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)





16.30-16.45	Drainage density mapping using ArcGIS in the Liwiec watershed	Paula Stoica , Anca Zaborilă, Marius Telișcă, Ion Giurma "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, 65 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
16.45-17.00	Studies on modern methods of creating 3D models for buildings	Iustina Gabriela Ignat Ștefan, Mihail Luca "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, 65 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
17.00-17.15	Research and case studies on water losses in distribution networks and their effect on the groundwater	Alexandru Postavaru, Andrei Pavaleanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, 65 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
17.15-17.30	Monitoring of wastewater parameters in treatment plants: case study – WWTP of Iasi City	<u>Costel-Cătălin Prăjanu</u> , Florian Stătescu, Daniel Toma, Cristina-Mihaela Vîrlan Toma "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, 65 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)
17.30-17.45	Using of HEC-RAS model for hydraulic analysis of a river Bahlueț	Gabriela Damian Dorin "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty Hydrotechnics, Geodesy and Environmental Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Environmental engineering)
17.45-18.00	Methods of adjustments the cost in constructions	Cornel Adrian Ciuruşniuc, Irina Ichimov Ciurusniuc "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Installations, 1 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Civil engineering and installations)

Parallel Session 4.3: Wednesday, 18 May, 16.00-17.30

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

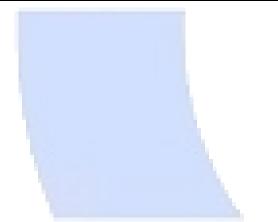
Chairperson: Prof.dr. Ioan Doroftei

Time	Oral presentation	Authors
16.00-16.15	Selection and evaluation of technologies in machine building	Vadim latchevici Technical University of Moldova, Faculty of Mechanical Engineering,





		11 Studentilor Street, Chisinau, Moldova (Mechanical engineering)
16.15-16.30	Considerations on classification of the main components of the vehicles by their vibroacoustic fingerprint	Nicolae-Adrian Niţu, Carmen Bujoreanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Mechanical engineering)
16.30-16.45	Injection high-pressure pumps evolution and wear analysis methods	Răzvan-Constantin Iordache , Carmen Bujoreanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Mechanical engineering)
16.45-17.00	A review on tribological behavior of mechanical components obtained by additive manufacturing methods	Gheorghe Macovei, Viorel Paleu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Mechanical engineering)
17.00-17.15	A review on treating tribological problems with fractals	Alexandru Lăpușteanu, Viorel Paleu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Mechanical engineering)
17.15-17.30	Life cycle analyses for solar thermal collectors	Cristina Belecciu ¹ , Ana-Georgiana Lupu ¹ , Mohammed Sallah ² , Aristotel Popescu ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania ² Faculty of Science, Mansoura University, Mansoura, Egypt (Mechanical engineering)







Thursday, 19 May, 2022

PLENARY SESSION 2

Chairperson: Prof.dr. Maria Gavrilescu

		Prof.dr. Dominique Adolphe
	The Smart Textiles, from Tradition to	University of Haute-Alsace (UHA), Ecole Nationale
9.30-10.10	Artificial Intelligence	Supérieure d'Ingénieurs Sud Alsace (ENSISA),
		Mulhouse, France
	Marine Densushing Franzis and the	Prof.dr. Eugen Victor Cristian Rusu
10.10-10.50	Marine Renewable Energy and the	"Dunarea de Jos" University of Galati, Romania;
	Transition to a Low Carbon Society	Romanian Academy
10.50-11.15	Coffee Break	

Parallel Session 1.4: Thursday, 19 May, 11.15-12.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management Chairperson: Prof.dr. Aristotel Popescu

Time	Oral presentation	Authors
11.15-11.30	Annealing effect of 3D printed composites	Sara Valvez, Paulo Reis University of Coimbra, Department of Mechanical Engineering, Polo 2, Pinhal de Marrocos, 3030-194 Coimbra, Portugal (Mechanical engineering)
11.30-11.45	A modified weigh-in-motion sensor for urban traffic monitoring	Marius Mihăilă, Igor Blanari, Ciprian-Ionuț Morăraș, Paul Barsanescu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Mechanical engineering)
11.45-12.00	Vehicles loads influence on box girders bridges	Adi-Mihăiță Velniciuc, Carmen Bujoreanu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Mechanical engineering)
12.00-12.15	Theoretical model for photovoltaic panel thermal analysis	<u>Ana-Georgiana Lupu¹</u> , Evangelos Hristoforou ² , Gabriel-Dumitru Tcaciuc ¹ , Aristotel Popescu ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania ² National Technical University of Athens, Greece





		(Mechanical engineering)
		Alexandru Radu ¹ , Konstantinos Papakostas ² , Ana-
		Georgiana Lupu ¹ , Aristotel Popescu ¹
	Comparative study of building	¹ Gheorghe Asachi" Technical University of Iasi,
12.15-12.30	integrated systems, photovoltaic	Romania, Faculty of Mechanical Engineering, 59A
12.15-12.50	(BIPVs) vs. photovoltaic-thermal	Prof. D. Mangeron Blvd., 700050, Iasi, Romania
	(BIPV-T)	² School of Mechanical Engineering, Aristotle
		University of Thessaloniki, Greece
		(Mechanical engineering)
	Comparison between Prandtl's mixing length model and DNS data for a channel flow up to ReZ = 5200	Gabriel-Dumitru Tcaciuc ¹ , Ahmed Elgarayhi ² , Ana-
		Georgiana Lupu ¹ , Aristotel Popescu ¹
		¹ Gheorghe Asachi" Technical University of Iasi,
12.30-12.45		Romania, Faculty of Mechanical Engineering, 59A
12.30 12.43		Prof. D. Mangeron Blvd., 700050, Iasi, Romania
		² Mansoura University, Faculty of Science, Mansoura
		Egypt
		(Mechanical engineering)

Parallel Session 2.4: Thursday, 19 May, 11.15-12.45

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Laura Bulgariu

Time	Oral presentation	Authors
11.15-11.30	Research on the dispersion of the concentration of volatile organic compounds generated by industrial activities in the vicinity of residential areas	Vlad-Alexandru Lăutaru, Romeo Hrișcan, Marius Kovacs National Institute for Research & Development in Mine Safety and Protection to Explosion Petroșani, 32-34 G-ral Vasile Milea Street, Petroșani, România (Environmental engineering)
11.30-11.45	Walnut (<i>Juglans regia</i> L.) - present and perspectives on phytosanitary activity	Anca Sandu Bălan Tăbăcariu ^{1,2} , Oana-Irina Patriciu ¹ , Ioana-Adriana Ștefănescu ¹ , Irina-Loredana Ifrim ¹ , Adriana-Luminița Fînaru ¹ ¹ "Vasile Alecsandri" University of Bacău, Faculty of Engineering, 156 Calea Marasesti, 600115, Bacău ² "Ștefan Luchian" Secondary School, 8 Zorilor Street, 605400, Moinesti, Romania (Environmental engineering)
11.45-12.00	Application of Response Surface Method for optimization of Eriochrome Black T removal by adsorption	Loredana Pintilie, Andreea-Ema Sava, Elena Niculina Drăgoi, Carmen Teodosiu "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, 73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania (Environmental engineering)





12.00-12.15 Natural carriers for bacterial immobilization used in bioremediation "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Environmental and Diaconu ¹ , Maria Gavrilescu ^{1.3}) 12.15-12.30 Studies on the behavior of Brassica napus I. cultivated on cadmium polluted soil Mariana Minut ¹ , Mihaela Roşca ² , Petronela Cozma ¹ , Mariana Diaconu ¹ , Maria Gavrilescu ^{1.3}) 12.15-12.30 Studies on the behavior of Brassica napus I. cultivated on cadmium polluted soil Mariana Minut ¹ , Mihaela Roşca ² , Petronela Cozma ² , Mariana Diaconu ¹ , Maria Gavrilescu ^{1.3}) 12.15-12.30 Removal of Pb(II) ions from aqueous adderment of Environmental Protection, Department of Furvironmental Protection, Department of Environmental Protection, Department of Environmental Protection, Department of Environmental Protection, Department of Environmental Protection, Department of			Emanuel Gheorghiță Armanu, Irina Volf
12.15-12.30 Studies on the behavior of Brassica napus I. cultivated on cadmium polluted soil Mariana Minut ¹ , Mihaela Roşca ² , Petronela Cozma ¹ , Mariana Diaconu ¹ , Maria Gavrilescu ^{1.3} 12.15-12.30 Studies on the behavior of Brassica napus I. cultivated on cadmium polluted soil "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Engineering and Management, 73 Prof. D. Mangeron Blvd., 700050 lasi, Romania 2*'Ion Ionescu de la Brad" University of Life Sciences, Faculty of Horticulture, Department of Horticultural Technologies, 3 Mihail Sadoveanu Alley, 700490 lasi, Romania 3/Academy of Romanian Gibra aqueous media by adsorption using PET fibers functionalized with Orange G dye as adsorbent Codrut-Stefan Ciobanu, Ramona Copae, Laura Bulgariu 12.30-12.45 Removal of Pb(II) ions from aqueous functionalized with Orange G dye as adsorbent "Cristofor Simionescu" Faculty of Chemical Engineering and Management, 73 Prof. D. Mangeron Blvd., 700050 lasi, Romania	12.00-12.15	immobilization used in	Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73A Prof. D. Mangeron Blvd., 700050, Iasi, Romania
12.30-12.45Removal of Pb(II) ions from aqueous media by adsorption using PET fibers functionalized with Orange G dye as adsorbentCodrut-Stefan Ciobanu Ramona Copae, Laura Bulgariu "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania (Environmental engineering)	12.15-12.30	napus I. cultivated on cadmium	Mariana Minut ¹ , Mihaela Roşca ² , Petronela Cozma ¹ , Mariana Diaconu ¹ , Maria Gavrilescu ^{1,3} ¹ "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania ² "Ion Ionescu de la Brad" University of Life Sciences, Faculty of Horticulture, Department of Horticultural Technologies, 3 Mihail Sadoveanu Alley, 700490 Iasi, Romania ³ Academy of Romanian Scientists, 3 Ilfov Street, 050044 Bucharest, Romania
14.00-15.00 Lunch	12.30-12.45	media by adsorption using PET fibers functionalized with Orange G dye as	Bulgariu "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management, 73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania
	14.00-15.00	Lunch	

Parallel Session 3.4: Thursday, 19 May, 11.15-12.45

Section 3. Civil engineering and installations

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

Chairperson: Prof.dr. Carmen Bujoreanu

Time	Oral presentation	Authors
		Cezara-Măriuca Oprişan, Bogdan Chiriac, Ana
	Static and dynamic friction	Tufescu, Dumitru N. Olaru
11.15-11.30	coefficient in low loads and sliding	"Gheorghe Asachi" Technical University of Iasi,
	speed conditions	Romania, Faculty of Mechanical Engineering, 59A
		Prof. D. Mangeron Blvd., 700050, Iasi, Romania





		(Mechanical engineering)
		Denis Cojocaru, Gelu Ianuş, Vlad Cârlescu, Dumitru
		N. Olaru
11.30-11.45	Film thickness in micro ball bearing	"Gheorghe Asachi" Technical University of Iasi,
11.00 11.10	grease lubricated	Romania, Faculty of Mechanical Engineering, 59A
		Prof. D. Mangeron Blvd., 700050, Iasi, Romania
		(Mechanical engineering)
		Alexandru Moldoveanu ^{1,2} , Daniela Popescu ²
		¹ National Institute of Hydrology and Water
	Towards river longitudinal	Management, Romania, 97 E Soseaua Bucuresti –
	connectivity practices within the	Ploiesti, 013686, Bucharest, Romania
11.45-12.00	Small Hydropower Plants Sector in	² "Gheorghe Asachi" Technical University of Iasi,
	Europe	Romania, Faculty of Machines Manufacturing and
		Industrial Management, 59A Prof. D. Mangeron
		Blvd., 700050, Iasi, Romania
		(Mechanical engineering)
	Design solutions for reliable and safe large size ball valves	Laurențiu-loan Ivancu, Daniela Popescu
12.00-12.15		"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Mechanical Engineering, 61-63
12.00-12.15		Prof. D. Mangeron Blvd., 700050, Iasi, Romania
		(Mechanical engineering)
		Bogdan Chiriac, Cezara-Măriuca Oprişan, Ana
	Friction behaviour between textiles and glass in low loads and sliding speed conditions	Tufescu, Dumitru N. Olaru
		"Gheorghe Asachi" Technical University of Iasi,
12.15-12.30		Romania, Faculty of Mechanical Engineering, 61-63
		Prof. D. Mangeron Blvd., 700050, Iasi, Romania
		(Mechanical engineering)
	Numerical modelling of the sliding	Andrei Zamă, Viorel Paleu, Dumitru N. Olaru
	Numerical modelling of the sliding	"Gheorghe Asachi" Technical University of Iasi,
12.30-12.45	speeds and friction torque while considering the centrifugal effects in	Romania, Faculty of Mechanical Engineering, 61-63
		Prof. D. Mangeron Blvd., 700050, Iasi, Romania
	angular contact ball bearings	(Mechanical engineering)
12 45 14 00	Lunah	

12.45-14.00 Lunch

Parallel Session 4.4: Thursday, 20 May, 11.15-12.45

Section 2. Chemistry; Chemical engineering; Environmental engineering Section 3. Civil engineering and installations Chairperson: Prof.dr. Ioan Mămăligă

Time	Oral presentation	Authors
11.15-11.30	The effect of temperature on the preparation of hydrocalumite under microwave irradiation from aluminum saline slag	<u>Alejandro Jiménez,</u> Miguel Ángel Vicente Rives ["] GIR – QUESCAT, Departamento de Química Inorgánica, Universidad de Salamanca, E – 37008, Spain (Chemical Engineering)





		Danai Velliadou, Marc J. Assael
11.30-11.45	Reference values and reference	Aristotle University of Thessaloniki, School of
	correlations for the thermal	Engineering, Department of Chemical Engineering,
	conductivity of fluids and solids	54636, Thessaloniki, Greece
	,	(Chemical Engineering)
		Alina Mustățea ^{1,2} , Roxana Trușcă ¹ , Raluca Gabor ³ ,
		Cristian Nicolae ³ , Ovidiu
		Dima ³ , Maria Ciucă ³ , Doina Dimonie ^{1,3} ¹ "University
		Politehnica of Bucharest, Doctoral school "Applied
		Chemistry and Materials Science", 313
	Maleated olefinic homopolymers	Splaiul Independentei Street, Bucharest, Romania
11.45-12.00	and copolymers as interface agents	² PROMATERIS SA, Bucharest-Targoviste Street, no.1,
	for new starch-based compounds	Buftea, Romania
		³ National Institute for Research and Development in
		Chemistry and Petrochemistry, 202 Splaiul
		Independentei Street, Bucharest, Romania
		(Chemical engineering)
		Violeta Dominte, Mihail Luca
	Research on the degradation of the evacuators from earth dams under the effect of climate change	"Gheorghe Asachi" Technical University of Iasi,
12.00-12.15		Romania, Faculty of Hydrotechnics, Geodesy and
		Environmental Engineering, 65 Prof. D. Mangeron
		Blvd., 700050, Iasi, Romania (Civil engineering and installations)
		Ioana Agapie Mereuță, Mihail Luca, Paul Marian
		Gherasim
	Opportunity to apply GNSS	
12.15-12.30	technology to measure parameters	"Gheorghe Asachi" Technical University of Iasi,
12.15-12.50	of hydrotechnical constructions	Romania, Faculty of Hydrotechnics, Geodesy and Environmental Engineering, 65 Prof. D. Mangeron
	of flydrotechnical constructions	Blvd., 700050, lasi, Romania
		(Civil engineering and installations)
		Romanescu Petronel Ionuţ, Mihail Luca
		"Gheorghe Asachi" Technical University of Iasi,
	Studies on the hydromorphological	Romania, Faculty of Hydrotechnics, Geodesy and
12.30-12.45	evolution of watercourses	Environmental Engineering, 65 Prof. D. Mangeron
	evolution of watercourses	Blvd., 700050, Iasi, Romania
		(Civil engineering and installations)
14.00-15.00	Lunch	





Parallel Session 1.5: Thursday, 19 May, 14.00-15.30

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology Chairperson: Prof.dr. Mihai Gavrilaş

Time	Oral presentation	Authors
14.00-14.15	ABS detection using neural network algorithm applied on naturalistic vehicle parameters dataset	George Maties, Cristian Foșalău Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
14.15-14.30	Aspects regarding the use of TCSC devices in power grids	Marian Atănăsoaei, Maricel Adam, Mihai Andrusca, Alin Dragomir, Cosmin Nistor Deac "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
14.30-14.45	Wearable device for measurement of exposure to artificial light	<u>Cristian Umbrărescu</u> , Cristian-Gyozo Haba "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
14.45-15.00	Data acquisition system for advanced medical devices	Mădălina-Ancuța Pintilei "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
15.00-15.15	Applications of robotic and mechatronic systems to neurorehabilitation	Elena Nechifor, Sorin-George Nechifor, Marian-Silviu Poboroniuc "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
15.15-15.30	Modeling and control of horizontal axis wind turbines	Aida Baltag "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)





Parallel Session 2.5: Thursday, 19 May, 14.00-15.30

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Assoc.Prof.dr. Carmen Zaharia

Time	Oral presentation	Authors
		Loredana Stan, Irina Volf
		"Gheorghe Asachi" Technical University of lasi,
	Carbon nano/microstructures	"Cristofor Simionescu" Faculty of Chemical
14.00-14.15	prepared through pyrolytic	Engineering and Environmental Protection,
14.00-14.15	processing of biomass waste	Department of Environmental Engineering and
	processing of biomass waste	Management,
		73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania
		(Environmental engineering)
		Ionela Cătălina Vasilachi ¹ , Maria Gavrilescu ^{1,2}
	1 1 1	"Gheorghe Asachi" Technical University of Iasi,
	Experimental studies on	"Cristofor Simionescu" Faculty of Chemical
14.15-14.30	phytoremediation of soils polluted	Engineering and Environmental Protection,
11.15 11.50	with lead using agricultural plants	Department of Environmental Engineering and
	with lead using agricultural plants	Management,
		73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania
		(Environmental engineering)
		Bianca Azanfire, Laura Bulgariu
		"Gheorghe Asachi" Technical University of Iasi,
	Optimization of process parameters	"Cristofor Simionescu" Faculty of Chemical
14.30-14.45	for retention of Cd(II) ions	Engineering and Environmental Protection,
	adsorption from aqueous solutions	Department of Environmental Engineering and
	on clay materials	Management,
		73 Prof. D. Mangeron Blvd., 700050 Iasi, Romania
		(Environmental engineering)
		Maria Paiu ¹ , Raluca-Maria Hlihor ^{1,2} , Lidia Favier ³ ,
		Maria Gavrilescu ^{1,4}
		¹ "Gheorghe Asachi" Technical University of Iasi,
		"Cristofor Simionescu" Faculty of Chemical
		Engineering and Environmental Protection,
		Department of Environmental Engineering and
		Management, 73 Prof. Mangeron Bd., 700050, Iasi,
		Romania
	Studies on the biodegradation of	² "lon lonescu de la Brad" University of Life Sciences,
14.45-15.00	some emerging pharmaceutical	Faculty of Horticulture, Department of Horticultural
	pollutants from aqueous fluxes	Technologies, Iasi, 3 Mihail Sadoveanu Alley, 700490,
		lasi, Romania
		³ Institute of Chemical Science of Rennes, UMR, CNRS
		6226, Chemical Engineering School of Rennes
		(ENSCR), Department of Chemistry and Engineering of Processes (CIP) 11 Allée de Repulsion CS 50827
		Processes (CIP), 11 Allée de Beaulieu, CS 50837, 35708, Rennes Cedex 7, France
		⁴ Academy of Romanian Scientists, 3 llfov Street,
		050044, Bucharest, Romania
		(Environmental engineering)





	I <u>oana Madalina Tănasă</u> , Brindușa Slușer
Air quality monitoring in the last	¹ "Gheorghe Asachi" Technical University of Iasi,
	"Cristofor Simionescu" Faculty of Chemical
	Engineering and Environmental Protection,
,	Department of Environmental Engineering and
Statistics	Management, 73 Prof. Mangeron Bd., 700050, Iasi,
	Romania
	(Environmental engineering)
Optimization of experimental parameters for biosorption of Zn(II) ions from aqueous solutions using Saccharomyces cerevisiae	Evghenia Savastru ¹ , Cătălin-Ioan Zamfir ² , Laura
	Bulgariu ¹
	¹ "Gheorghe Asachi" Technical University of Iasi,
	"Cristofor Simionescu" Faculty of Chemical
	Engineering and Environmental Protection,
	Department of Environmental Engineering and
	Management, 73 Prof. Mangeron Bd., 700050, Iasi
	² Romanian Academy, Iaşi Branch, Oenology
	Research Centre, Aleea Mihail Sadoveanu No. 9,
	700490, Iaşi, Romania
	(Environmental engineering)
	decade in Romania: dynamic and statistics Optimization of experimental parameters for biosorption of Zn(II) ions from aqueous solutions using

15.30-16.00 Coffee Break

Parallel Session 3.5: Thursday, 19 May, 14.00-15.30

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology Chairperson: Prof.dr. Cristian Foşalău

Time	Oral presentation	Authors
14.00-14.15	Towards reliability and safety improvement of measurement and control processes on ships: implementation of wireless HART protocol	Mostafa Abotaleb ¹ , Janusz Mindykowski ¹ , Boleslaw Dudojc ¹ , Romuald Masnicki ² ¹ Gdynia Maritime University, Doctoral School, Morska 81-87, 81-225 Gdynia, Poland ² Gdynia Maritime University, Faculty of Electrical Engineering, Morska 81-87, 81-225 Gdynia, Poland (Electrical engineering)
14.15-14.30	The inteligent measurement system for photovoltaic prosumers	Marius-Lucian Diaconu, Mihai Gavrilaş "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Energy engineering)
14.30-14.45	A energy storage management approach considering the prosumer integration in microgrids	<u>Marius-Andrei Cibotărică,</u> Gavrilaș Mihai "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Energy engineering)





14 45 45 00		Bogdan Livadariu
	An optimization-based analysis to	"Gheorghe Asachi" Technical University of Iasi,
	evaluate the impact of the wind	Romania, Faculty of Electrical Engineering, Energetics
14.45-15.00	farms on the operation of the	and Applied Informatics, 21-23 Prof. D. Mangeron
	electric networks	Blvd., 700050, Iasi, Romania
		(Energy engineering)
		Vasilica Dandea
	Scenarios-based analysis to evaluate	"Gheorghe Asachi" Technical University of Iasi,
15.00-15.15	impact of prosumers on the	Romania, Faculty of Electrical Engineering, Energetics
15.00-15.15	operation of the low voltage electric	and Applied Informatics, 21-23 Prof. D. Mangeron
	distribution networks	Blvd., 700050, Iasi, Romania
		(Energy engineering)
		Răzvan Gârbea
	Discovering the patterns of	"Gheorghe Asachi" Technical University of Iasi,
15.15-15.30	operating regimes by K-means	Romania, Faculty of Electrical Engineering, Energetics
	clustering-based data mining for	and Applied Informatics, 21-23 Prof. D. Mangeron
	hydropower plants	Blvd., 700050, Iasi, Romania
		(Energy engineering)

15.39-16.00 Coffee Break

Parallel Session 4.5: Thursday, 19 May, 14.00-15.30

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Prof.dr. Gabriela Carja

Time	Oral presentation	Authors
14.00-14.15	The dependence of the racemic nucleation efficiency on the chemical characteristics of the PDLA macromolecules	Silvia Mathe ^{1,2,3} , Doina Dimonie ^{1,2} , Maria Ciucă ² ¹ Doctoral School "Applied Chemistry and Materials Science", University Politehnica Bucharest, 1-7 Gheorghe Polizu, Bucharest, 011061, Romania ^{2*} National Institute for Research and Development in Chemistry and Petrochemistry, 202 Splaiul Independentei, Bucharest 060021, Romania ³ Renault Tehnologie Roumanie, Materials Engineering Department, 3G Preciziei, Bucharest 62202, Romania (Chemical engineering)
14.15-14.30	Development of a smart drug delivery mesoporous silica systems for diabetes mellitus	Mousa Sha'at ¹ , Maria Ignat ^{2,3} , Alexandra Bujor ¹ , Adrian Florin Șpac ¹ , Lăcrămioara Ochiuz ¹ ¹ "Grigore T. Popa" University of Medicine and Pharmacy Iași, Faculty of Pharmacy, 16 Universității Street, 700115, Iasi, Romania ² "Alexandru Ioan Cuza" University of Iasi, Faculty of Chemistry, 11 Carol I Bvd., Iasi, 700506, Romania ³ "Petru Poni" Institute of Macromolecular Chemistry, 41A Grigore Ghica Voda Street, Iasi 700487, Romania (Chemical engineering)





14.30-14.45	Extraction techniques and spectrophotometric studies on <i>Datura innoxia</i> dry biomass	Georgiana Mardare Băluşescu ¹ , Liliana Lazăr ² , Teodor Măluțan ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Natural and Synthetic Polymers, 73 Prof. D. Mangeron Blvd., 700050, Iasi, Romania ² "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Department of Chemical Engineering, 73 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
14.45-15.00	Tailoring the structural properties of ZnLDH substituted with Ga by using XRD and TG/DTG analysis	Eugenia Corina Ignat, Gabriela Carja "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, 73 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
15.00-15.15	Achievements and limits on the chemical characterization by non- destructive techniques of medieval silver coins on the territory of Moldova	Codrin Lăcătuşu ^{1,2} , Cezar Doru Radu ² ¹ Center for Research and Restoration-Conservation of Cultural Heritage "Moldova" National Museum Complex, 1 Stefan cel Mare and Sfant Square, 700028, Iasi, Romania ^{2"} Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
15.15-15.30	Double-layerd hydroxides (LDH) and AgNP / LDH nanostructured assemblies: synthesis, physico- chemical properties studies and cytotoxicity tests	Loredana Andreea Gavrilă, Gabriela Carja "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, 73 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Chemical engineering)
16.45-17.00	Coffee Break	

Parallel Session 1.6: Thursday, 20 May, 16.00-17.30

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Cristian Nemeș

Time	Oral presentation	Authors
16.00-16.15	Solution for pumps control in irrigations system using S7-1200 PLC	Georgel Gabor, Gheorghe Livint "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics





		and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania
		(Electrical engineering)
16.15-16.30	In-depth critical review on importance of optimal design parametrization of CE vs. WE dimensional ratio	Tudor-Alexandru Filip, Ina Turcan, Vlad Andrei Scarlatache, Marius Andrei Olariu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
16.30-16.45	Non-intrusive monitoring system of low voltage components from power circuit breakers	Ionut Ovidiu Rusu, Maricel Adam, Mihai Andrușcă "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
16.45-17.00	Contributions in the field of methods of assessment of the muscles with reduced dynamics- pelvic floor muscle	Alina Roxana Miron, Marian-Silviu Poboroniuc "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
17.00-17.15	Contributions to a hybrid FES&Mechatronic system for hand rehabilitation in stroke people	Radu Ionaşcu , Andrei-Iulian Roman, Dănuț-Constantin Irimia, Marian-Silviu Poboroniuc "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
17.15-17.30	Contributions to brain-computer interface based control of humanoid robots	Alexandru Mitocaru, Danut Constantin Irimia, Alina Baciu, Marian Silviu Poboroniuc "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)

Parallel Session 2.6: Thursday, 19 May, 16.00-17.15

Section 2. Chemistry; Chemical engineering; Environmental engineering Chairperson: Assoc.Prof.dr. Cezar Catrinescu

Time	Oral presentation	Authors
16.00-16.15	Drug-loaded electrospun nanofibrous membrane with potential antimicrobial	Codrin-Paul Fuioagă "Gheorghe Asachi" Technical University, "Cristofor Simionescu" Faculty of Chemical Engineering and





		Environmental Protection, 73 D. Mangeron Blvd.,
		700050, Iasi, Romania
		(Chemical engineering)
		Iolanda Fusteş-Dămoc^{1,2}, Teodor Măluțan ² Alice Mija ¹
		¹ Laboratoire ICN, Université Côte d'Azur, 28 Av.
		Valrose, 06100 Nice, France
16.15-16.30	Chitosan based thermosetting resins	² "Gheorghe Asachi" Technical University, "Cristofor
10.15 10.50	entosan basea thermosetting resins	Simionescu" Faculty of Chemical Engineering and
		Environmental Protection, 73 D. Mangeron Blvd.,
		700050, Iasi, Romania
		(Chemical engineering)
		Alexandru-Vasilică Iosub
	-	"Gheorghe Asachi" Technical University, "Cristofor
16.30-16.45	Diffusion controlled release from a	Simionescu" Faculty of Chemical Engineering and
10.50-10.45	polymeric matrix	Environmental Protection, 73 D. Mangeron Blvd.,
		700050, Iasi, Romania
		(Chemical engineering)
		Theodor Bahnariu, Gabriela Carja
	Tailoring nanostructures of layered	"Gheorghe Asachi" Technical University, "Cristofor
16.45-17.00		Simionescu" Faculty of Chemical Engineering and
10.45-17.00	double hydroxides for specific	Environmental Protection, 73 D. Mangeron Blvd.,
	applications in nanomedicine	700050, Iasi, Romania
		(Chemical engineering)
17.00.17.15		Mihaela Fanache Vasiliu, Liliana Lazar, Maria Harja
	Windows waste glass capitalization	"Gheorghe Asachi" Technical University, "Cristofor
		Simionescu" Faculty of Chemical Engineering and
17.00-17.15	for obtaining materials with imposed	Environmental Protection, 73 D. Mangeron Blvd.,
	properties	700050, Iasi, Ro <mark>mania</mark>
		(Chemical engine <mark>ering)</mark>

Parallel Session 3.6: Thursday, 19 May, 16.00-17.45

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology Chairperson: Prof.dr. Marian Poboroniuc

Time	Oral presentation	Authors
16.00-16.15	Using IoT in smart agriculture: study about practical realization and testing in real environments	Doru Cornei, Cristian Foșalău "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
16.15-16.30	Improving gas sensor performances using nanotechnologies	Ionel Hogaş, Cristian Foşalău "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania





		(Electrical engineering)
		<u>Alexandru-Mihai Ionescu,</u> Cristian Foșalău
		Ionel Hogaș, Cristian Foșalău
		"Gheorghe Asachi" Technical University of Iasi,
16.30-16.45	Data collection system using UAV	Romania, Faculty of Electrical Engineering,
		Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Electrical engineering)
		Mădălina-Elena Datcu
	The current stage of portable	"Gheorghe Asachi" Technical University of Iasi,
16.45-17.00	medical devices for ECG signal	Romania, Faculty of Electrical Engineering,
10.45-17.00	monitoring	Energetics and Applied Informatics, 21-23 Prof. D.
	monitoring	Mangeron Blvd., 700050, Iasi, Romania
		(Electrical engineering)
		Adelina-Cristina Căsuță
	The influence of electromagnetic	"Gheorghe Asachi" Technical University of Iasi,
17.00-17.15	interference on the radiological investigation equipment	Romania, Faculty of Electrical Engineering,
17.00-17.15		Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Electrical engineering)
		<u>Ciprian-Cătălin Rusu,</u> Daniel-Eusebiu Crețu, Radu
		Burlică, Dragoș Astanei and Oana Beniugă
	DBD system operating in ambient air	"Gheorghe Asachi" Technical University of Iasi,
17.15-17. <mark>30</mark>	for surface treatment of	Romania, Faculty of Electrical Engineering,
	polyethylene terephthalate films	Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Electrical engineering)
		Adrian Saridache
		Gheorghe Asachi" Technical University of Iasi,
17.30-17.45	Parkinson's Monitoring System	Romania, Faculty of Electrical Engineering,
17.50 17.45		Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 70005 <mark>0, Iasi, Romania</mark>
		(Electrical engineering)

Parallel Session 4.6: Thursday, 19 May, 16.00-17.45

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

Chairperson: Prof.dr. Silvia Avasilcăi

Time	Oral presentation	Authors
		Ciprian-Daniel Baltag
	Quality and risk management in	"Transilvania" University of Brașov, Romania, Faculty
16.00-16.15	industrial production systems: A	of Technological Engineering and Industrial
	literature review	Management, 1 University Street, Brașov, Romania
		(Engineering and management)





16.15-16.30	Shortest path routes for battery electric vehicle charging in large cities and their metropolitan area	Ioan Lupuşor "Transilvania" University of Braşov-Romania, Faculty of Technological Engineering and Industrial Management, 1 University Street, Braşov, Romania (Engineering and management)
16.30-16.45	Circular economy: business models and good practice models. Waste uses of wine production	Marius-Teodor Grămăticu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Engineering and management)
16.45-17.00	Use of Balanced Scorecard Designer Light in order to develop the main processes within the "Alexandru Ioan Cuza" Economic High School Piatra Neamţ	Gabriela-Livia Curpănaru "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Engineering and management)
17.00-17.15	Comparative study of crisis resolution methods	Mariana Duduman "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Engineering and management)
17.15-17.30	Research on information security management in organizations	Dragos-Ionut Anghelută "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Engineering and management)
17.30-17.45	Manager versus leader: a paradigm of increasing the efficiency of multinational organizations	Constantin Vartolomei "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Engineering and management)





Friday, 21 May, 2021

PLENARY SESSION 3

Chairperson: Prof.dr. Alina-Adriana Minea

	Concepts and Methodologies for the	Prof.Dr. Karsten Berns
9.30-10.10	Development of Autonomous Off-	Technische Universität Kaiserslautern, Germany
	Road Vehicles	
	Structural Integrity of Polymeric	Prof. Liviu Marsavina
10.10-10.50	Components Obtained Through	Politechnica University of Timisoara, Romania
	Additive Manufacturing	
10.50-11.00	Coffee Break	

Parallel Session 1.7: Friday, 20 May, 11.00-12.45

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

Chairperson: Prof.dr. Leandru-Gheorghe Bujoreanu

Time	Oral presentation	Authors
11.00-11.15	A communication on application of phase inversion technique in fabrication of CNT reinforced polymer composite filaments for additive manufacturing	Pooyan Parnian, Alberto D'Amore University of Campania "Luigi Vanvitelli", Department of Engineering, Via Roma 29, Aversa, 81031, Italy (Materials engineering)
11.15-11.30	Multi-disciplinary optimization of a spacecraft for a re-entry descent from LEO Orbit at constant heat flux density Preliminary research on the use of synthetic magnetite in the conservation and restoration of archaeological iron. Study on the possibility of using ferrofluids based	Nicolina Montella University of Campania "Luigi Vanvitelli", Engineering Department, Via Roma 29, 81031 Aversa (CE), Italy (Materials engineering) Ilie Cojocariu ["] Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania
	on synthetic magnetite as polishing media	(Materials engineering)
11.45-12.00	3D printing of smart metallic materials	Ana-Maria Scripcariu, Nicanor Cimpoeşu ["] Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)





		Romeo Gabriel Chelariu, Ioan Rusu, Costică
		Bejinariu
		["] Gheorghe Asachi" Technical University of Iasi,
12.00-12.15	Non-spark metallic materials for	Romania, Faculty of Materials Science and
	applications in explosive environments	Engineering, 41 Prof. D. Mangeron Blvd., 700050,
		lasi, Romania
		(Materials engineering)
		Cătălin Osoeanu ¹ , Daniela Lucia Chicet ¹ , Viorel
		Paleu ² , Costică Bejinariu ¹
		¹ "Gheorghe Asachi" Technical University of Iasi,
		Romania, Faculty of Materials Science and
12.15-12.30	Investigation on brake pad emissions	Engineering, 41 Prof. D. Mangeron Street, 700050,
12.15 12.50	on the environment	lasi, Romania
		² "Gheorghe Asachi" Technical University of Iasi,
		Romania, Faculty of Mechanics, 61-63 Prof. D.
		Mangeron Street, 700050, Iasi, Romania
		(Materials engineering)
		<u>Marian Luțcanu^{1,2},</u> Iulian Ioniță ¹ , Nicanor
		Cimpoesu ¹
		¹ "Gheorghe Asachi" Technical University of Iasi,
	Experimental results from the	Romania, Faculty of Materials Science and
12.30-12.45	obtaining of ceramic layers by APS and	Engineering, 41 Prof. D. Mangeron Street, 700050,
12:00 12:10	their post-deposition processing	lasi, Romania
	their post deposition processing	² "Gheorghe Asachi" Technical University of Iasi,
		Romania, Department of Physics,
		67 Prof. D. Mangeron Blvd., 700050, Iasi, Romania
		(Materials engineering)
42.45.42.45	Coffee Prest	
12.45-13.15	Coffee Break	

Parallel Session 2.7: Friday, 20 May, 11.00-12.45

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Alexandru Sălceanu

Time	Oral presentation	Authors
		Silviu Marian Antohi, Maricel Adam, Alin
		Dragomir, Mihai Andrușcă
	Aspects regarding wireless	"Gheorghe Asachi" Technical University of Iasi,
11.00-11.15	communication within electrical	Romania, Faculty of Electrical Engineering,
	equipment	Energetics and Applied Informatics, 21-23 Prof. D.
		Mangeron Blvd., 700050, Iasi, Romania
		(Electrical engineering)
	2D and 3D FEM-based analysis on	Alexandra Bobu, Alecsandru Simion, Adrian
11 15 11 20	machine structures with	Munteanu
11.15-11.30	unconventional topology permanent	"Gheorghe Asachi" Technical University of Iasi,
	magnet	Romania, Faculty of Electrical Engineering,





		Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
11.30-11.45	Local survey over the non-ionising radiation associated with 5G phone base stations	Marius Vasile Ursachianu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
11.45-12.00	Data processing in the detection of abnormal cells in tissue	Maria-Geanina Gheorghian "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
12.00-12.15	Experimental validation of an electrical machine with double rotor and intermediate stator performance	Alexandra Bobu, Adrian Munteanu, Alecsandru Simion "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
12.15-12.30	Computation of magnetic flux density produced by underground medium voltage power lines	Silviu Vornicu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
12.30-12.45	Processing approach for non-electrical biological signals	Robert Fuior "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
12.45-13.15	Coffee Break	

Parallel Session 3.7: Friday, 20 May, 11.00-12.45

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

Chairperson: Prof.dr. Daniela Popescu

Time	Oral presentation	Authors
11.00-11.15	Analysis of the supplier relationship	Cristina-Elena Ungureanu
11.00-11.15	management function and activities	





		University Politehnica of Bucharest, Romania,
		Doctoral School of Entrepreneurship, Business
		Engineering and Management
		(Industrial engineering)
	Medaling and analysis of thermal	Cosmin Preda, Robert-Marian Bleoțu
11.15-11.30	Modeling and analysis of thermal behaviour for brake discs	Lucian Blaga University of Sibiu, Romania
	behaviour for brake discs	(Industrial engineering)
		Adelina Hriţuc
		"Gheorghe Asachi" Technical University of Iasi,
14 20 44 45	Analysis of the plastic material	Romania, Faculty of Machine Manufacturing and
11.30-11.45	hardness in the case of a part	Industrial Management, 59A Prof. D. Mangeron
	manufactured by 3D printing	Blvd., 700050, Iasi, Romania
		(Industrial engineering)
		Marius-Andrei Boca ¹ , Alexandru Sover, Laurentiu
		Slatineanu
	a standard and the standard st	¹ "Gheorghe Asachi" Technical University of Iasi,
	Use of the 3 level mind map method	Romania, Faculty of Machine Manufacturing and
11.45-12.00	to identify constructive solutions for	Industrial Management, 59A Prof. D. Mangeron
	the development of a thermoforming	Blvd., 700050, Iasi, Romania
	mould	² University of Applied Sciences Ansbach, Faculty of
		Technology, Germany
	- A	(Industrial engineering)
		loan Surugiu, Margareta Coteață, Laurențiu
		Slătineanu
	Functional requirements and design	"Gheorghe Asachi" Technical University of Iasi,
12.00-12.15	parameters for the manufacture of	Romania, Faculty of Machine Manufacturing and
	Damascus steel	Industrial Management, 59A Prof. D. Mangeron
		Blvd., 700050, Iasi, Romania
		(Industrial engineering)
		Neculai Eduard Bumbu
	Computer aided analysis of free	"Gheorghe Asachi" Technical University of Iasi,
	response of an AC Asynchronous	Romania, Faculty of Machine Manufacturing and
12.15-12.30	Driving Motor due to an impulse	Industrial Management, 59A Prof. D. Mangeron
	excitation	Blvd., 700050, Iasi, Romania
		(Industrial engineering)
		Vasile Ermolai
	Design and testing of multi-material	"Gheorghe Asachi" Technical University of Iasi,
	flexure hinges with morphing	Romania, Faculty of Machine Manufacturing and
	structure for fused filament	Industrial Management, 59A Prof. D. Mangeron
12.30-12.45	fabrication	Blvd., 700050, Iasi, Romania
12.50 12.75		(Industrial engineering)
	1	
12.45-13.15	Coffee Break	





Parallel Session 4.7: Friday, 21 May, 10.30-12.30

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management Chairperson: Prof.dr. Petru Duşa

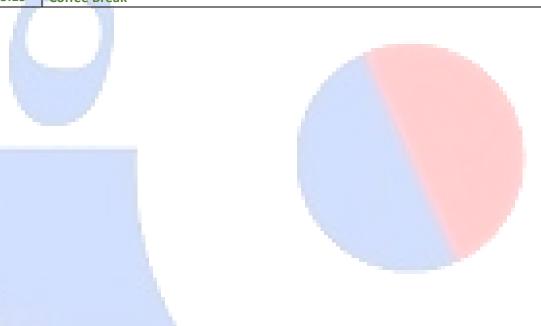
Time	Oral presentation	Authors
11.00-11.15	Design and execution of demolition works by blasting of industrial constructions - technical and safety aspects	Robert Laszlo,Ciprian Jitea, Bogdan Garaliu, MiklosLeventeNational Institute for Research and Development inMine Safety and Protection to Explosion –INSEMEX, Petrosani, Romania(Industrial engineering)
11.15-11.30	Explosion risk assessment - an important chapter of the explosion protection document	Mirela Ancuta Radu, Adrian Marius Jurca, Florin Adrian Paun, Catalin Mihai Popa, Dan Sorin Gabor National Institute for Research and Development in Mine Safety and Protection to Explosion – INSEMEX, Petrosani, Romania (Industrial engineering)
11.30-11.45	Determination of air flow-methods and means	Alexandru Cămărășescu National Institute for Research and Development in Mine Safety and Protection to Explosion – INSEMEX, Petrosani, Romania (Industrial engineering)
11.45-12.00	From conventional to bionic limb prostheses - an overview	Dimitrie-Cristian Fodor "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Machine Manufacturing and Industrial Management, 59A Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
12.00-12.15	Finite element analysis of the self- aligning collet chuck mechanism	<u>Stefan-Lucian Clisu</u> "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Machine Manufacturing and





		Industrial Management, 59A Prof. D. Mangeron
		Blvd., 700050, Iasi, Romania
		(Industrial engineering)
		Carmen-Melania Blejan, Antonela Curteza
		"Gheorghe Asachi" Technical University of Iasi,
12.15-12.30	Researches on the aesthetic	Faculty of Industrial Design and Business
12.13-12.30	perception of women's clothing	Management, 29 Prof. D. Mangeron Blvd., 700050,
		lasi, Romania
		(Industrial engineering)
		Mădălina-Laura Veleșcu
12.30-12.45	The content and execution of a maintenance contract: a challenge for industrial companies	"Gheorghe Asachi" Technical University of Iasi,
		Romania, Faculty of Industrial Design and Business
		Management, 29 Prof. D. Mangeron Blvd., 700050,
	industrial companies	lasi, Romania
		(Industrial engineering)
		Florin St. C. Mustață, Antonela Curteza
		"Gheorghe Asachi"Technical University of Iasi,
12.45-13.00	An approach of recycling textile waste	Romania, Faculty of Industrial Design and Business
12.45 15.00	with industrial applications	Management, 29 Prof. D. Mangeron Blvd., 700050,
		Iasi, Romania
		(Industrial engineering)

13.00-13.15 Coffee Break







Parallel Session 1.8: Friday, 20 May, 13.15-14.45

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

Chairperson: Prof.dr. Leandru-Gheorghe Bujoreanu

Time	Oral presentation	Authors
Time 13.15-13.30 13.30-13.45	Recent research of graphene nanofluids for heat transfer applications Morphological characteristics of different phosphate layers deposited on the surface of concrete	AuthorsLiviu-loan Zupcu"Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)Petru Lazăr, Alin-Marian Cazac, Nicanor Cimpoeşu, Costică Bejinariu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050,
13.45-14.00	reinforcement steel Methods for investigating the adhesion to the substrate of the coatings obtained by thermal spraying	Iasi, Romania (Materials engineering) <u>Radu-Armand Haraga,</u> Stefan-Lucian Toma, Daniela-Lucia Chicet, Ioan Rusu, Costică Bejinariu ["] Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania
14.00-14.15	Investigation of stainless steel surface modifications	(Materials engineering) Sebastian Mistreanu, Dragoş Cristian Achiţei, Nicanor Cimpoeşu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)
14.15-14.30	Applicable standards and materials used in the manufacture of gloves used by firefighters for hand protection	Constantin Arvinte, Mihai-Adrian Bernevig, Constantin Baciu, Costică Bejinariu ["] Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)
14.30-14.45	Development of new advanced titanium alloy for medical applications	Iustinian Bălțatu, Marius Albert Mazilu, Mădălina Simona Bălțatu, Claudiu Vasile Ciubotaru, Petrică Vizureanu





["] Gheorghe Asachi" Technical University of lasi,
Romania, Faculty of Materials Science and
Engineering, 41 Prof. D. Mangeron Blvd., 700050,
lasi, Romania
(Materials engineering)

15.00-15.30 Closing ceremony

Parallel Session 2.8: Friday, 20 May, 13.00-14.45

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

Section 4. Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology

Chairperson: Prof.dr. Mihăiță Horodincă

Time	Oral presentation	Authors
13.15-13.30	Life cycle assessment of textile waste-reinforced composite materials for construction applications	Eugen Constantin Ailenei ¹ , Maria Carmen Loghin ¹ , Dorina Nicolina Isopescu ² , Sebastian George Maxineasa ² ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania ² "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Civil Engineering and Building Services, 1 Prof. D. Mangeron Blvd., 700050, Iasi (Industrial engineering)
13.30-13.45	Modern use of textile waste as building insulation	Andreea Nistorac "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
13.45-14.00	Creating addictive behavior to enhance sustainable fashion consumption	Iuliana Streba, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
14.00-14.15	The impact of electromagnetic field sources on medical equipment in the anesthesia and intensive care unit and electrotherapy room	Marina-Georgiana Roman "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)





14.15-14.30	Visualization and interpretation of electromagnetic interferences on ultrasound diagnostic systems	Alexandru-Marian Bordaş "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
14.30-14.45	The influence of electromagnetic interference on the radiological investigation equipment	Adelina-Cristina Căsuță "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, 21-23 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Electrical engineering)
15.00-15.30	Closing ceremony	

Parallel Session 3.8: Friday, 20 May, 13.00-14.45

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

Chairperson: Prof.dr. Alina-Adriana Minea

Time	Oral presentation	Authors
13.15-13.30	Overview of drawbacks and benefits of ionic liquid 1-butyl-3- methylimidazolium tetrafluoroborate behaviour at heat transfer	Elena-Ionela Chereches, Alina Adriana Minea "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 63 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials science)
13.30-13.45	PEG based nanofluids and their thermophysical properties	Marius-Ionut Chereches, Elena-Ionela Chereches "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 63 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials science)
13.45-14.00	Influence of H ₂ S on P265GH steel	Marius Gabriel Zaharia, Sergiu Stanciu "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Materials Science and Engineering, 41 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Materials engineering)





14.15-14.30 Materials for electric contacts Identification of the second	puter Engineering, 27 Prof. D. Mangeron Blvd., 050, lasi, Romania terials engineering)
	t Adomniței, Mihai Axinte, Romeu Chelariu, nor Cimpoeșu eorghe Asachi" Technical University of Iasi, ania, Faculty of Materials Science and neering, 41 Prof. D. Mangeron Blvd., 700050, Romania terials engineering)
14.30-14.45 Importance of the characteristics of stainless steel used in the food industry for personal protective equipment	rge Daniel Tanasievici, Alin Marian Cazac, ică Bejinariu eorghe Asachi" Technical University of Iasi, ania, Faculty of Materials Science and neering, 41 Prof. D. Mangeron Blvd., 700050, Romania terials science)

15.00-15.30 Closing ceremony

Parallel Session 4.8: Friday, 20 May, 13.15-14.45

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management Chairperson: Prof.dr. Mirela Blaga

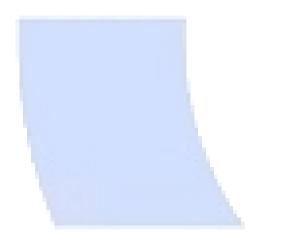
Time	Oral presentation	Authors
13.15-13.30	Influence of the raw materials on knitted fabrics behaviour in dynamic testing conditions	Cristina Grosu, Mirela Blaga "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
13.30-13.45	Nonwoven Insulation IZOMIN – sustainable development by disruptive innovation	Cezar Florin Bulacu, Mirela Blaga "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)



"Gheorghe Asachi" Technical University of Iasi, Romania 5th International Conference of the Doctoral School May 18 - 20, 2022, Iaşi, România



13.45-14.00	Selection and characterisation of fabrics for cosmetotextile with antimicrobial properties	Lucia-Oana Secăreanu, Mirela Blaga, Elena- Cornelia Mitran, Irina Mariana Sandulache, Mihaela-Cristina Lite, Ovidiu Iordache "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
14.00-14.15	Anthropometric study of the foot	Arina Seul, Diana-Roxana Viziteu, Antonela Curteza, Aura Mihai, Mariana Costea "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
14.15-14.30	Particularities of designing functional clothing through the JULIVI automated system	Victoria Danila, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
14.30-14.45	Study on the concepts of beauty and green aesthetics in clothing	Giorgiana-Claudia Irimiea, Antonela Curteza "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Industrial Design and Business Management, 29 Prof. D. Mangeron Blvd., 700050, Iasi, Romania (Industrial engineering)
15.00-15.30	Closing ceremony	A CONTRACTOR OF







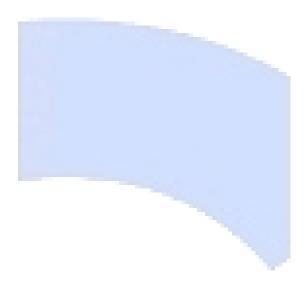
Authors institutional affiliation, in alphabetical order:

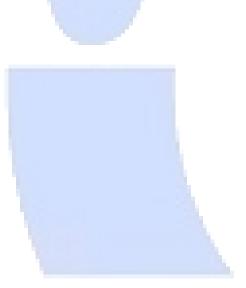
"Alexandru Ioan Cuza" University of Iasi, Romania "Gheorghe Asachi" Technical University of Iaşi, Romania "Grigore T. Popa" University of Medicine and Pharmacy Iași, Romania "Ion Ionescu de la Brad" University of Life Sciences, Iasi, Romania "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania "Stefan Luchian" Secondary School, Moinesti, Romania "Vasile Alecsandri" University of Bacău, Romania Academy of Romanian Scientists, Romania Aristotle University of Thessaloniki, Greece Bacau Water Quality Laboratory, Romania Bucharest University of Economic Studies, Romania Center for Research and Restoration-Conservation of Cultural Heritage" Moldova" National Museum, Iasi, Romania Gdynia Maritime University, Poland Ghent University, Belgium Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Bucharest, Romania Loop S.r.l., V.le A. Gramsci, Napoli, Italy Lucian Blaga University of Sibiu, Romania Mansoura University, Egypt National Institute for Research & Development in Mine Safety and Protection to Explosion – INSEMEX Petrosani, Romania National Institute for Research and Development in Chemistry and Petrochemistry, Bucharest, Romania National Institute of Hydrology and Water Management, Bucharest, Romania National Research and Development Institute for Industrial Ecology ECOIND, Bucharest, Romania National Technical University of Athens, Greece PROMATERIS SA, Bucharest, Romania Renault Tehnologie Roumanie, Bucharest, Romania Romanian Academy, Iasi Branch Technical University of Moldova, Chisinau, Republic of Moldova Transilvania University of Brasov, Romania

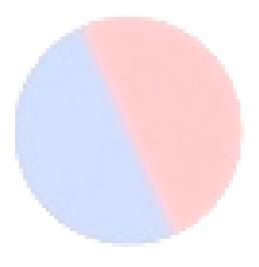




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SOME KEY FIGURES:

- ✓ 199 papers
- ✓ participants from 11 countries (authors and co-authors)
- ✓ 15 universities from abroad, 11 Romanian universities, 1 Romanian secondary school, 7 Romanian research institutes, 3 international companies

THANK YOU FOR ATTENDING CSD2022!

You are welcome to the 6th Edition of the International Conference of the Doctoral School - "Gheorghe Asachi" Technical University of Iaşi, România, in May, 2023!