

"GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IASI, ROMANIA

7TH INTERNATIONAL CONFERENCE PROGRAM

MAY 15-17, 2024 IASI, ROMANIA

Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity

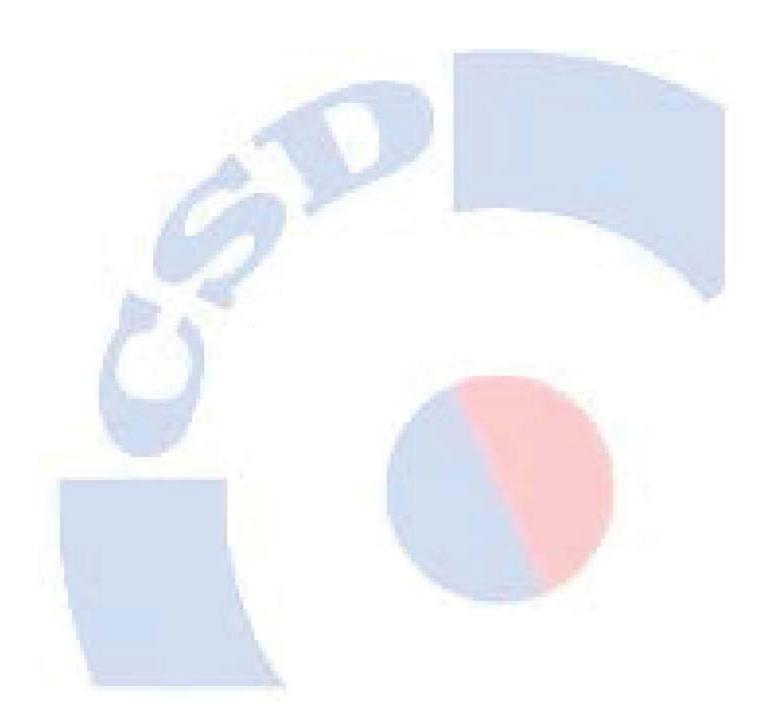
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Welcome to CSD2024, wishing you a successful conference!











7th International Conference

of the Doctoral School

"Gheorghe Asachi" Technical University of Iasi

Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity

CONFERENCE PROGRAMME

May 15 – 17, 2024 IAŞI, ROMÂNIA





Organizers

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

Partner:

• "Gheorghe Asachi" University Foundation, Iasi, Romania

Conference Sections

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





Organizer's Message

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

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

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

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

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

Welcome to CSD2024, wishing you a successful conference!

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





Conference committees

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- Prof.dr. Irina Volf, Gheorghe Asachi Technical University of Iasi, Romania

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- Prof.dr. Florin Leon

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- Assist.prof.dr. Elena Ionela Cherecheş (Section 5) (elena-ionela.chereches@academic.tuiasi.ro)





General information

About our university

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

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

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

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

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

In 1993 the name of "Polytechnic Institute of Iasi" was replaced by "Gheorghe Asachi" Technical University of Iasi (TUIASI). In 2004 the Architecture department within the Faculty of Constructions and Installations became the "G.M. Cantacuzino" Faculty of Architecture and since then 11 faculties operate within TUIASI.

Today, TUIASI develops programs for undergraduate, master, doctoral, postdoctoral studies and scientific research in interdisciplinary research areas, out of which 10 areas were classified in category A, according to Law 1/2011 and HG 789/2011. The doctoral activity is organized within an interdisciplinary doctoral school including 13 doctoral fields established according to national and international research priority areas.





About the Conference program

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

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

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

VERY IMPORTANT

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

All oral presentations will be given in English.

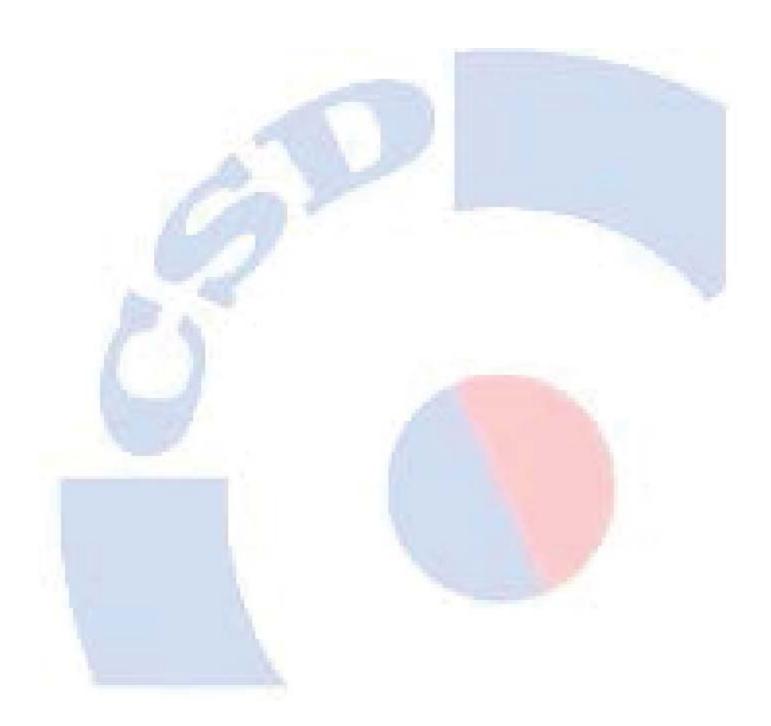
A PowerPoint support for your presentation adequate for maximum **15 minutes** would serve as visual aids that can enhance audience engagement and ensure a better understanding of your speech!

Contact persons: *Prof.dr. Maria Gavrilescu* mgav@tuiasi.ro; +40 745528184 *MSc Sabina Bobu*

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











FIRST SIGHT CSD2024 CONFERENCE PROGRAM

Wednesday, 15 May, 2024

| Time | Event | | | |
|-------------|-----------------------------|----|--|--|
| 9.00-9.25 | Opening ceremony (online) | | | |
| 9.30-10.10 | Plenary Conference 1 | | | |
| 10.10-10.50 | Plenary Conference 2 | | | |
| | | | | |
| 10.50-11.15 | Coffee Break | | | |
| 11.15-13.00 | Parallel Session On-line | 15 | | |
| 13.00-14.00 | Lunch | | | |
| 14.00-15.30 | Parallel Session On-line | 15 | | |
| 15.30-15.45 | Coffee Break | | | |
| | | | | |
| | Parallel Session | s | | |

Thursday, 16 May, 2024

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

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





| 14.00-15.45 | Parallel Sessions | |
|-------------|---|--|
| | On-line | |
| 15.45-16.00 | Coffee Break | |
| | Parallel Sessions | |
| | On-line On-line | |
| 16.00-17.30 | | |
| 10.00 17.00 | Workshop COMPETE 2.0 | |
| | Applications of artificial intelligence in the industrial domains | |
| | On-site | |

Friday, 17 May, 2024

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



13.00-14.00

Lunch



GENERAL CSD2024 CONFERENCE PROGRAM

Wednesday, 15 May, 2024

| Event |
|---|
| Opening ceremony (Online) |
| Plenary Conference 1: Prof. dr. Horia IOVU (Online) |
| Plenary Conference 2: Prof. dr. Vincent NIERSTRASZ (Online) |
| https://meet.google.com/vfs-wgjp-kbc?hs=224 |
| - |

| 10.50-11.15 | Coffee break | | | |
|-------------|-------------------------|-------------------|---------------------------|---------------------|
| | Parallel | Parallel | Parallel | Parallel Session |
| | Session 1.1 | Session 2.1 | Session 3.1 | 4.1 |
| | Section 2. | Section 3. | Section 3. | Section 3. |
| | Computers and | Chemistry; | Chemistry; | Chemistry; Chemical |
| | information | Chemical | Chemical | engineering; |
| | technology; Systems | engineering; | engineering; | Environmental |
| 11.15-13.00 | engineering | Environmental | Environmental | engineering |
| | Energy engineering; | engineering | engin <mark>eering</mark> | |
| | Electronic engineering, | | | |
| | telecommunications | | | |
| | and information | 1000 | | |
| | technology | | | |
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| 14.00-15.30 | Parallel | Parallel | Parallel | Parallel |
|-------------|---------------------|--------------|---------------|---------------------|
| | Session 1.2 | Session 2.2 | Session 3.2 | Session 4.2 |
| | Section 3. | Section 3. | Section 2. | Section 2. |
| | Chemistry; Chemical | Chemistry; | Computers and | Computers and |
| | engineering; | Chemical | information | information |
| | Environmental | engineering; | technology; | technology; Systems |
| | engineering | | Systems | engineering |
| | | | | |





| | | Environmental engineering | engineering Electrical engineering; Energy engineering; Electronic engineering, | Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information |
|-------------|---|--|---|--|
| | | | telecommunication s and information technology | technology |
| Link | https://meet.google.c om/aab-htpm-fur | https://meet.goo gle.com/sef- ovqa-noh | https://meet.goog le.com/zmc-oeby- <u>icr</u> | https://meet.google .com/rbs-bocv-oyk |
| 15.30-15.45 | Coffee Break | 1 | | |
| | | | | |
| | Parallel Session 1.3 Section 5. Mechanical | Parallel Session 2.3 Section 3. Chemistry; | Parallel Session 3.3 Section 4. Civil engineering | Parallel Session 4.3 Section 5. Mechanical |
| | | | | |
| 15.45-17.30 | engineering; Industrial engineering; Materials engineering; Engineering and | Chemical engineering; Environmental engineering | and installations | engineering; Industrial engineering; Materials |
| 15.45-17.30 | engineering; Materials engineering; | engineering; Environmental | and installations | Industrial engineering; |





Thursday, 16 May, 2024

| Time | Event |
|-------------|---|
| 9.30-10.10 | Plenary Conference 3: Prof. dr. Sorin MUȘUROI (Online) |
| 10.10-10.50 | Plenary Conference 4: Prof. dr. Cristian MAHULEA (Online) |
| Link | https://meet.google.com/ouj-wndn-npr?hs=224 |

10.50-11.15 Coffee break

| | Online Parallel | Online Parallel | Online Parallel | Online Parallel |
|------------|------------------------|------------------------|------------------------|------------------------|
| | Session 1.4 | Session 2.4 | Session 3.4 | Session 4.4 |
| | Section 4. | Section 2. | Section 5. | Section 2. |
| | Civil engineering | Computers and | Mechanical | Computers and |
| | and installations | information | engineering; | information |
| | 1 | technology; Systems | Industrial | technology; Systems |
| | 100 | engineering | engineering; | engineering |
| 1.15-13.00 | | Electrical | Materials | Electrical |
| | and the second second | engineering; Energy | engineering; | engineering; Energy |
| | | engineering; | Engineering and | engineering; |
| | | Electronic | management | Electronic |
| | | engineering, | | engineering, |
| | | telecommunications | | telecommunication |
| | 1.00 | and information | Still 1 | s and information |
| | 100 | technology | | technology |
| | https://meet.googl | https://meet.google | https://meet.googl | https://meet.googl |
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13.30-14.00 Lunch

| | | | F | |
|-------------|-------------------------------------|-------------------------------|--|---|
| | Online Parallel | Online Parallel | Online Parallel | Online |
| | Session 1.5 | Session 2.5 | Session 3.5 | Parallel |
| | Section 4. Civil engineering and | Section 5. Mechanical | Section 2. Computers and | Session 4.5 |
| | installations | engineering; | information | Section 2. Computers and |
| 14.00-15.45 | | Industrial engineering; | technology; Systems engineering; Electrical | information technology; Systems engineering; |
| | | Materials engineering; | engineering; Energy engineering; Electronic | |
| | | Engineering and management | engineering, telecommunications | Electrical engineering; |
| | | | and information technology | Energy |





| Link | https://meet.googl com/yuw-ydoc-gb | | | | <u>et.google.c</u> <u>fmr-hwm</u> | Ele eng telecc o info tec <u>https:</u> | ineering; ectronic ineering, ommunicati ns and ormation chnology //meet.goo m/eqr-ijuz- <u>qrw</u> |
|-------------|---------------------------------------|----------------------------|----------|-----------------------|--------------------------------------|---|---|
| 15.45-16.00 | Coffee break | Territor | | | | | |
| | Online Parallel | Online Parallel | | nline arallel | Onlin Parall | | Onsite Workshop |
| | Session 1.6 | Session 2.6 | Ses | sion 3.6 | Session | 4.6 | Compete 2.0 |
| | Section 5. | Section 5. | | ction 5. | Section | • | Applications of |
| | Mechanical | Mechanical | - | chanical | Mechan | | artificial |
| 16.00-17.30 | engineering; | engineering; | | ineering; | engineer | | intelligence in |
| | Industrial engineering; | Industrial engineering; | | dustrial ineering; | Industr engineer | - | the industrial domains |
| | Materials | Materials | - | aterials | Materia | - | uomanis |
| | engineering; | engineering; | | ineering; | engineer | | |
| | Engineering and | Engineering | Engin | eering and | Engineerin | gand | |
| | management | and | mar | agement | managen | nent | |
| 10.00 | 138.5 | management | 1 | | | | |
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Friday, 17 May, 2024

| Time | Event | |
|-------------|--|--|
| 9.30-10.10 | Plenary Conference 5: Prof. dr. Maria VAMVAKAKI (Online) | |
| 10.10-10.50 | Plenary Conference 6: Prof. dr. Davide FABIANI (Online) | |
| Link | https://meet.google.com/ztz-yeys-dxp?hs=224 | |
| | | |
| 10.50-11.05 | Coffee break | |
| | | |
| 11.15-13.00 | Session 1.7 | |
| 11.13-13.00 | On-site | |





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





CSD2024 DETAILED CONFERENCE PROGRAM

Wednesday, 15 May, 2024

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

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

Chairperson: Prof.dr. Maria Gavrilescu

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

| 10.50-11.15 |
|-------------|
|-------------|





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

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

Chairperson: **Prof. Florin Leon** https://meet.google.com/xej-cdbm-jyp

| Time | Oral presentation | Authors |
|-------------|---|--|
| | A HIGH-LEVEL SYNTHESIS | Cristian-Tiberius Axinte |
| | A HIGH-LEVEL SYNTHESIS APPROACH TO MODELLING AND | Gheorghe Asachi" Technical University of Iasi- |
| 11.15-11.30 | EVALUATION OF THE AXIS- | Romania, Faculty of Automatic Control and |
| | | Computer Engineering, Iasi, Romania |
| | STREAM PROTOCOL | (Computers and information technology) |
| | ST AND A | Cosmin-Andrei Popovici, Andrei Stan, Vasile-Ion |
| | DOMAIN-SPECIFIC FPGA-BASED | Manta |
| 11 20 11 45 | DIGITAL ACQUISITION SYSTEM | Gheorghe Asachi" Technical University of Iasi- |
| 11.30-11.45 | FOR HARDWARE ACCELERATORS | Romania, Faculty of Automatic Control and |
| | INTEGRATION | Computer Engineering, Iasi, Romania |
| | | (Computers and information technology) |
| | | Vasile-Silviu Sărmășanu |
| | ADVANCED SPEECH | Gheorghe Asachi" Technical University of Iasi- |
| 11.45-12.00 | SEGMENTATION IN ROMANIAN | Romania, Faculty of Automatic Control and |
| | NEWS BROADCASTS THROUGH | Computer Engineering, Iasi, Romania |
| | MEDIAN FILTERING | (Computers and information technology) |
| 1 | INNOVATIONS AND | Marine Chaffer |
| | TECHNOLOGICAL UBIQUITY, FOR | Marius Ștefan |
| 12.00-12.15 | THE DEVELOPMENT OF E- | Bucharest University of Economic Studies, |
| | BUSINESS, AT THE GOVERNMENT | Bucharest, Romania |
| | LEVEL | (Computers and information technology) |
| | | Yanping Zhang, Dan Ch <mark>ang, Daqing Gon</mark> g |
| | ELECTRIC VEHICLE CHARGING STATION LAYOUT BASED ON GENETIC ALGORITHM AND | Beijing Jiaotong University, School of Economics and |
| 12.15-12.30 | | Management, Xizhimenwai, Haidian District, Beijing, |
| | | China |
| | AGENT SIMULATION | (Systems engineering) |
| | COMPARISON BETWEEN AN | Mihaela-Alexandra Barb-Ciorbea |
| 12.30-12.45 | EXACT AND AN HEURISTIC- | Gheorghe Asachi" Technical University of Iasi- |
| | BASED METHOD FOR A VECHICLE | Romania, Faculty of Automatic Control and |
| | ROUTING PROBLEM WITH TIME | Computer Engineering, Iasi, Romania |
| | CONSTRAINTS | (Systems engineering) |
| | | Alexandru Postăvaru, Catrinel-Raluca Giurma- |
| 42.45.42.00 | | Handley |
| | MONITORING DISTRIBUTION | Gheorghe Asachi" Technical University of Iasi- |
| 12.45-13.00 | NETWORKS TO DETECT WATER | Romania, Faculty of Hydrotechnics, Geodesy and |
| | LOSSES -CASE STUDIES | Environmental Engineering |
| | | (Systems engineering) |





13.00-14.00 Lunch

Online Parallel Session 2.1: Wednesday, 15 May, 11.15-13.00 Section 3. Chemistry; Chemical engineering; Environmental engineering Chairperson: Assoc. Prof. Adrian Ungureanu

https://meet.google.com/dut-grui-wee

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





| | EXPLOITING THE | Denis Cutcovschi, Sofronia Bouariu, Gabriela Carja |
|-------------|--|---|
| 12.15-12.30 | RECONSTRUCTION BY THE | ["] Gheorghe Asachi" Technical University of Iasi, |
| | STRUCTURAL MEMORY FOR | Romania, "Cristofor Simionescu" Faculty of Chemical |
| | ENGINEERING LAYERED DOUBLE | Engineering and Environmental Protection |
| | HYDROXIDES | (Chemical engineering) |
| | | Ştefan-Leontin Martinaş-Ioniță, Gabriela Antoaneta |
| | ADVANCED RECOVERY OF VALUABLE MATERIALS FROM E- WASTE | Apostolescu, Maria Harja |
| 12 20 12 45 | | ["] Gheorghe Asachi" Technical University of Iasi, |
| 12.30-12.45 | | Romania, "Cristofor Simionescu" Faculty of Chemical |
| | | Engineering and Environmental Protection |
| | | (Chemical engineering) |
| | | Paula Olaru Simionescu Rusu, Alina-Mirela Ipate, |
| | THE RECOVERY OF WASTE | Gabriela Lisa |
| 12 55 12 00 | COOKING OIL BY | ["] Gheorghe Asachi" Technical University of Iasi, |
| 12.55-13.00 | TRANSFORMING INTO VALUE- | Romania, "Cristofor Simionescu" Faculty of Chemical |
| | ADDED PRODUCTS | Engineering and Environmental Protection |
| | and the second sec | (Chemical engineering) |

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

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Assoc. Prof. Cezar Catrinescu

https://meet.google.com/gsw-ofdt-pus

| Time | Oral presentation | Authors |
|-------------|--|---|
| 11.15-11.30 | XANTHAN GUM-BASED EMULSIONS IN FUNCTIONAL TEXTILES FOR SKINCARE APPLICATIONS | Elena-Daniela Lotos ¹ , Angela Dănilă ² , Marcela Mihai ¹ , Bogdan C. Simionescu ¹ ¹ Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania; ² "Gheorghe Asachi" Technical University of Iasi, Faculty of Industrial Design and Business Management, Iasi, Romania (Chemistry) |
| 11.30-11.45 | POLYELECTROLYTES/ LACCASE COMPOSITE BIOCATALYSTS FOR WATER CLEANING APPLICATIONS | Larisa-Maria Petrila ¹ , Rénato Froidevaux ² , Marcela Mihai ¹ ¹ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; ² UMRt INRAE 1158 BioEcoAgro, Université de Lille, Villeneuve d'Ascq, France (Chemistry) |
| 11.45-12.00 | SUCCESSFUL DEGRADATION OF BISPHENOL A UNDER VISIBLE LIGHT IRRADIATION BY DOPED TITANIUM DIOXIDE CATALYSTS | Yassine Jari¹ , Lidia Favier ² , Mohamed Chaker Necibi ¹ , Bouchaib Gourich ^{1,3} , Christophe Vial ⁴ , Alaâeddine Elhalil ³ , Azzeddine El Midaoui ¹ , Nicolas Roche ^{1,5} |





| | | ¹International Water Research Institute (IWRI), Mohammed VI Polytechnic University, Morocco; ²Univ Rennes, Ecole Nationale Supérieure de Chimie de Rennes, CNRS, ISCR – UMR6226, France ³Laboratory of Process and Environmental Engineering, Higher School of Technology, Hassan II University, Morocco; ⁴Université Clermont Auvergne, CNRS, Clermont Auvergne INP, Institut Pascal, France; ⁵Aix-Marseille University, CNRS, IRD, INRAE, Coll France, CEREGE, CEDEX, France (Chemistry) |
|-------------|--|---|
| 12.00-12.15 | EXPLORING POTENTIAL NANOPARTICLE EFFECTS ON CELLULAR RESPONSE IN 3D PRINTED SCAFFOLDS THROUGH LOCAL NANOMECHANICAL REINFORCEMENT | Carmen-Valentina Nicolae¹, Elena Olăreț ¹ , Raluca- Elena Ginghină ² , Sorina Dinescu ^{3,4} , Andrada Serafim ¹ , Izabela-Cristina Stancu ¹ ¹ Advanced Polymer Materials Group, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology Politehnica Bucharest, Romania; ² Research and Innovation Center for CBRN Defense and Ecology, Bucharest, Romania; ³ Department of Biochemistry and Molecular Biology, University of Bucharest, Romania; ⁴ Research Institute of the University of Bucharest (ICUB), Bucharest, Romania (Chemistry) |
| 12.15-12.30 | RAFT POLYMERIZATION SYNTHESIS OF POLY(2-(DIMETHYLAMINO) ETHYL ACRYLATE) AND ELECTROSTATIC COMPLEXATION WITH DEXTRAN SULFATE | Melinda-Maria Bazarghideanu ¹ , Marius-Mihai Zaharia ¹ , Maria Karayianni ^{1,2} , Stergios Pispas ^{1,2} , Marcela Mihai ¹ ¹ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; ² Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation Athens, Greece (Chemistry) |
| 12.30-12.45 | ENHANCED OXIDATIVE DEGRADATION OF REACTIVE RED 120 USING HETEROGENEOUS FENTON CATALYSTS BASED ON IRON OXIDE NANOPARTICLES CONFINED WITHIN THE PORES OF SBA-15 SILICA | Mihaela Bectoras ¹ , Cezar Catrinescu ¹ , Adrian Ungureanu ¹ , Carmen Ciotonea ² , Cédric Gennequin ² , Sébastien Royer ³ ¹ "Gheorghe Asachi" Technical University of Iasi, "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection, Iasi, Romania; ² Université du Littoral Côte d'Opale, Unité de Chimie Environnementale et Intéractions sur le Vivant-UCEIV, UR4492, SFR Condorcet FR CNRS 3417, Dunkerque, France; ³ Université de Lille, CNRS, Centrale Lille, Univ. Artois, UMR 8181 – UCCS – Unité de Catalyse et Chimie du Solide, Lille, France (Chemistry) |





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

13.00-14.00 Lunch

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

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Assoc. Prof. Brinduşa Sluşer

https://meet.google.com/zge-apit-xib

| Time | Oral presentation | Authors |
|-------------|--------------------------------|--|
| | | Anca Sandu-Bălan Tăbăcariu ^{1,2} , Oana-Irina |
| | ALC: NOTE | Patriciu ¹ , Ioana-Adriana Ștefănescu ¹ , |
| | ANTIFUNGAL ACTIVITY OF | Irina-Loredana Ifrim ¹ , Adriana-Luminița Fînaru ¹ |
| 11.15-11.30 | EXTRACTS FROM Sambucus nigra | ¹ "Vasile Alecsandri" University of Bacau, Faculty of |
| | AND Juglans regia BY-PRODUCTS | Engineering, Bacău, Romania; ² "Ștefan Luchian" |
| | | Secondary School, Moinesti, Romania |
| | | (Environmental engineering) |
| | HARNESSING THE POWER OF | Beatrice De Pascale, Piergiorgio Tataranni, |
| | GREEN PAVEMENT TO | Department of Civil, Chemical, Environmental and |
| 11.30-11.45 | EFFECTIVELY ADDRESS | Materials Engineering, University of Bologna, Italy |
| | ENVIRONMENTAL CHALLENGES IN | (Environmental engineering) |
| | URBAN AREAS | |
| | | Brăduț-Bogdan Minea ¹ , Cristiana Radulescu ^{1,2,3} |
| | | ¹ National University of Science and Technology |
| | | Politehnica Bucharest, Doctoral School Chemical |
| | PESTICIDE RESIDUE SCREENING IN | Engineering and Biotechnology, Bucharest, |
| 11.45-12.00 | CITRUS BASED ON GAS | Romania; ² Valahia University of Targoviste, |
| 11.45-12.00 | CHROMATOGRAPHY-TANDEM | Institute of Multidisciplinary Research for Science |
| | MASS SPECTROMETRY | and Technology, Targoviste, Romania; Valahia |
| | | University of Targoviste, Faculty of Sciences and |
| | | Arts, Targoviste, Romania |
| | | (Environmental engineering) |
| | | Andreea Roxana Fânaru Balint ¹ , Marian Grigoraș ² , |
| | | Gabriel Ababei ² , Anda Les Agavriloaei ¹ , Dorina |
| 12.00-12.15 | WASTEWATER CLEANING WITH | Creangă ¹ |
| | MAGNETIC NANOPARTICLES – THE | ¹ "Alexandru Ioan Cuza" University of Iasi, Faculty of |
| | CASE OF RHODAMINE B | Physics, Iasi, Romania; ² National Institute of |
| | | Research and Development for Technical Physics, |
| | | lasi, Romania |





| | | (Environmental engineering) |
|-------------|--|--|
| | | Elena Petronela Bran ¹ , Daniela Nicuță ² , Luminița |
| | | Grosu ³ , Irina-Claudia Alexa ³ |
| | In vive AND in vitre | Adriana-Luminița Fînaru ³ |
| | In vivo AND in vitro | ¹ "Vasile Alecsandri" University of Bacău, Doctoral |
| 12.15-12.30 | INVESTIGATION ON | School, Bacău, Romania; ² Department of Biology, |
| | VALORIZATION OF FOOD BY- | Ecology and Protection of Environment; |
| | PRODUCTS AND WASTE | ³ Department of Chemical and Food Engineering, |
| | | Bacău, Romania |
| | | (Environmental engineering) |
| | | Letizia Caroscio ¹ , Cristian Chiavetta ² , Alessandra |
| | APPLICATION OF CIRCULAR ECONOMY PRINCIPLES IN BLUE ECONOMY SECTORS | Bonoli ¹ |
| | | ¹ Department of Civil, Chemical, Environmental and |
| 12.30-12.45 | | Materials Engineering, University of Bologna, Italy; |
| 12.30-12.45 | | ² ENEA - Italian National Agency for New |
| | | Technologies, Energy and Sustainable Economic |
| | | Development |
| | | (Environmental engineering) |
| | and the second sec | |
| 12.45-14.00 | Lunch | |

Online Parallel Session 1.2: Wednesday, 15 May, 14.00-15.30 Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof. Maria Harja

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

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





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

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

Section 3. Chemistry; Chemical engineering; Environmental engineering

Chairperson: Prof. Laura Bulgariu

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

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





| | THE CONTEXT OF CIRCULAR | ["] Gheorghe Asachi" Technical University of Iasi, |
|------------|------------------------------|---|
| | ECONOMY | Romania, "Cristofor Simionescu" Faculty of |
| | | Chemical Engineering and Environmental |
| | | Protection, lasi, Romania |
| | | (Environmental engineering) |
| | | <u>Eduard Străinu</u> , Ioana Tănasă, Dumitru Botan, |
| | A PROSPECTIVE COMPARATIVE | Brînduşa Sluşer |
| | STUDY ON THE PERCEPTION OF | ["] Gheorghe Asachi" Technical University of lasi, |
| 4.45-15.00 | NEARLY ZERO ENERGY BUILDINGS | Romania, "Cristofor Simionescu" Faculty of |
| | | Chemical Engineering and Environmental |
| | (NZEB) CONCEPT IN EUROPE | Protection, lasi, Romania |
| | | (Environmental engineering) |
| | | Crinuța Larisa Ortovan, Carmen Zaharia |
| | PRELIMINARY STUDY OF REMAZOL | ["] Gheorghe Asachi" Technical University of Iasi, |
| | ROSSO RB DYE ADSORPTION | Romania, "Cristofor Simionescu" Faculty of |
| 5.00-15.15 | ONTO DRY FRESHWATER ALGAL | Chemical Engineering and Environmental |
| | BIOMASS | Protection, lasi, Romania |
| | | (Environmental engineering) |
| | STUDY ON THE PRODUCTION OF | Helmina Ardeleanu, Dana Pricop, Dorina Creangă |
| | MAGNETITE NANOPARTICLES | "Alexandru Ioan Cuza" University of Iasi, Faculty of |
| 5.15-15.30 | STABILIZED WITH SILVER FOR | Physics, Iasi, Romania |
| | MEDICAL APPLICATIONS | (Physics) |

15.30-15.45

Coffee Break

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

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

Chairperson: Prof. Gheorghe Grigoraş

https://meet.google.com/zmc-oeby-icr

| Time | Oral presentation | Authors |
|-------------|---|---|
| | L. A. | <u>Mihaela Năstase,</u> Mihai Gavrilaș |
| | DAY-AHEAD LOAD SHIFTING AS A | "Gheorghe Asachi" Technical University of Iasi, |
| 14.00-14.15 | DEMAND SIDE MANAGEMENT | Faculty of Electrical Engineering, Energetics and |
| | STRATEGY | Applied Informatics, Iasi, Romania |
| | | (Energy engineering) |
| 14.15-14.30 | RESILIENCE OF POWER SYSTEMS TO CYBER ATTACKS: EVALUATING TOOLS AND METHODOLOGIES FOR ENHANCED RESILIENCE | Alin-Ionuț Pricop, Mihai Gavrilaș |
| | | "Gheorghe Asachi" Technical University of Iasi, |
| | | Faculty of Electrical Engineering, Energetics and |
| | | Applied Informatics, Iasi, Romania |
| | EINHANCED RESILIENCE | (Energy engineering) |





| | | Nicolae Stănciulescu |
|-------------|--|---|
| | INFLUENCE OF PHOTOVOLTAIC | "Gheorghe Asachi" Technical University of Iasi, |
| 14.30-14.45 | PANELS ON THE NETWORKS OF | Faculty of Electrical Engineering, Energetics and |
| | DISTRIBUTION OPERATORS | Applied Informatics, Iasi, Romania |
| | | (Energy engineering) |
| | INTEGRATION OF INTERNET OF | Răzvan Livadariu, Gheorghe Grigoraș |
| | THINGS AND DATA MINING | "Gheorghe Asachi" Technical University of Iasi, |
| 14.45-15.00 | CONCEPTS IN ENERGY | Faculty of Electrical Engineering, Energetics and |
| | CONSUMPTION MANAGEMENT: A | Applied Informatics, Iasi, Romania |
| | LITERATURE REVIEW | (Energy engineering) |
| | | Mihai-Andrei Luca, Mihai Gavrilaş |
| | EFFICIENT OPERATION OF ENERGY | "Gheorghe Asachi" Technical University of Iasi, |
| 15.00-15.15 | STORAGE SYSTEMS IN | Faculty of Electrical Engineering, Energetics and |
| | MICROGRIDS ENRICHED WITH EV | Applied Informatics, Iasi, Romania |
| | | (Energy engineering) |
| | 11 | Andrei-Aurelian lanoş, Cătălin-Daniel Gălățanu |
| | VARIATION OF NUSSELT NUMBER | "Gheorghe Asachi" Technical University of Iasi, |
| 15.15-15.30 | FOR HEAT TRANSFER THROUGH A | Faculty of Electrical Engineering, Energetics and |
| | RECTANGULAR DUCT | Applied Informatics, Iasi, Romania |
| | | (Energy engineering) |

Coffee Break 15.30-15.45

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

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

Chairperson: Prof. Ciprian Nemeş

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

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





| | | University of Iasi-Romania, Faculty of Automatic |
|-------------|--|---|
| | | Control and Computer Engineering |
| | | (Electrical engineering) |
| | | Petronela-Camelia Oprea, Mădălina Cojocariu |
| | STUDY UPON THE INFLUENCE OF | "Gheorghe Asachi" Technical University of Iasi, |
| 14.30-14.45 | MOBILE PHONE PROTECTIVE CASE | Faculty of Electrical Engineering, Energetics and |
| | ON SAR DISTRIBUTION | Applied Informatics, Iasi, Romania |
| | | (Electrical engineering) |
| | | George Bălan, Alexandru Sălceanu, Dorin-Dumitru |
| | STUDY ON THE USE OF DIGITAL | Lucache |
| 14.45-15.00 | TWIN IN THE ANALYSIS OF | "Gheorghe Asachi" Technical University of Iasi, |
| 14.42-12.00 | | Faculty of Electrical Engineering, Energetics and |
| | PHOTOVOLTAIC SYSTEMS | Applied Informatics, Iasi, Romania |
| | | (Electrical engineering) |
| | | Tudor-Alexandru Filip ¹ , Mădălina-Petronela |
| | AN OVERVIEW AND CURRENT CHALLENGES IN RESPECT TO SCREEN-PRINTED ELECTROCHEMICAL ELECTRODES EMPLOYABILITY AS DISPOSABLE BIOSENSORS | Simion ¹ , Ina Țurcan ^{2,3} , Marius-Andrei Olariu ¹ |
| | | ¹ "Gheorghe Asachi" Technical University of Iasi, |
| | | Faculty of Electrical Engineering, Energetics and |
| 15.00-15.15 | | Applied Informatics; ² "Ion Ionescu de la Brad" |
| | | University of Life Sciences, Faculty of Horticulture; |
| | | 3 "Alexandru Ioan Cuza" University of Iasi, Faculty |
| | | of Physics, Iasi, Romania |
| | | (Electrical engineering) |
| | IMPROVING THE CONTROL'S | Silvia-Nicoleta Plăcintă |
| | | "Gheorghe Asachi" Technical University of Iasi, |
| 15.15-15.30 | NUMBER IN BRAIN-COMPUTER | Faculty of Electrical Engineering, Energetics and |
| | INTERFACE APPLICATIONS BASED | Applied Informatics, Iasi, Romania |
| | ON MOTOR IMAGERY | (Electrical engineering) |

15.30-15.45 Coffee Break

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

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

Chairperson: Prof. Leandru Bujoreanu

https://meet.google.com/rnz-dmkr-nef

| Time | Oral presentation | Authors |
|-------------|-----------------------------|--|
| | EASILY FORMABLE PARAFFIN- | <u>Jolanta Sobczak¹, Gaweł Żyła</u> |
| | BASED COMPOSITES | Doctoral School of the Rzeszów University of |
| | INCORPORATING IRON | Technology, Rzeszów University of Technology, |
| 15.45-16.00 | NANOPARTICLES WITH BOTH | Rzeszów, Poland ; Department of Physics and |
| | HYDROPHILIC AND HYDROPHOBIC | Medical Engineering, Rzeszów University of |
| | CARBON SHELLS AS GAMMA-RAY | Technology, Rzeszów, Poland |
| | SHIELD | |





| | | (Materials engineering) |
|-------------|--|--|
| | | <u>Fardin Jafari</u> , Giovanni Semprini ² , Alessandra |
| | | Bonoli ¹ |
| | REDUCING BUILDING SURFACE TEMPERATURE BY ADDING PCM | ¹ University of Bologna, Department of Civil, |
| 16.00-16.15 | LAYER INTO WALL | Chemical, Environmental and Materials |
| | CONFIGURATION | Engineering, Bologna, Italy; ² University of Bologna, |
| | CONTROLATION | Faculty of Industrial Engineering, Bologna, Italy |
| | | (Materials engineering) |
| | SCRUTINIZING OF HEAT TRANSFER | Emrehan Gürsoy ¹ , Engin Gedik ² |
| | AND FLOW MECHANISM IN | ¹ Karabük University, Institute of Graduate |
| 10 15 10 20 | CIRCULAR BACKWARD-FACING | Programs; ² Karabük University, Faculty of |
| 16.15-16.30 | STEP CONSIDERING FERROFLUID | Engineering, Karabük, Türkiye |
| | FLOW UNDER MAGNETIC FIELD | (Materials engineering) |
| | EFFECT | |
| | | Ionuț Adomniței ¹ , Gheorghe Bădărău ¹ , Marian |
| | 15 10 10 | Luțcanu ² , Daniela Lucia Chicet ¹ , Nicanor Cimpoesu ¹ |
| | PRELIMINARY RESULTS ON YSZ | ^{1"} Gheorghe Asachi" Technical University of Iasi, |
| 16.30-16.45 | (HIGH Y ₂ O ₃ CONTENT) CERAMIC | Faculty of Materials Science and Engineering; |
| | LAYERS | ² "Gheorghe Asachi" Technical University of Iasi, |
| | | Department of Physics, Iasi, Romania |
| | | (Materials engineering) |
| and second | | Cristian-Andrei Micu, Petrică Vizureanu, Alin- |
| | | Marian Cazac, Costică Bejinariu |
| 46.45.47.00 | POLYMER COMPOSITES | "Gheorghe Asachi" Technical University of Iasi, |
| 16.45-17.00 | THERMISTORS USED AS HEAT FIRE DETECTORS: A SHORT REVIEW | Faculty of Materials Science and Engineering, lasi, |
| | | Romania |
| | 100 | (Materials engineering) |
| , rec | and the second s | Cristian-Ștefan Bunduc, Leandru Gheorghe |
| | | Bujoreanu, Ramona Cimpoeșu, Costică Bejinariu |
| | SAFETY HELMETS RECYCLING AND | "Gheorghe Asachi" Technical University of Iasi, |
| 17.00-17.15 | SELECTION: A SHORT REVIEW | Faculty of Materials Science and Engineering, lasi, |
| | | Romania |
| | | (Materials engineering) |
| -10 | | Codrin-Dumitru Cîrlan, Edmund Levardă, Marius |
| | ADVANCED COMPOSITE | Petcu, Stefan Lucian Toma"Gheorghe Asachi" |
| 17.15-17.30 | MATERIALS USED IN THE | Technical University of Iasi, Faculty of Materials |
| | AUTOMOTIVE INDUSTRY | Science and Engineering, Iasi, Romania |
| | | (Materials engineering) |

Online Parallel Session 2.3: Wednesday, 15 May, 15.45-17.15 Section 3. Chemistry; Chemical engineering; Environmental engineering Section 4. Civil engineering and installations Chairperson: Assoc. Prof. Carmen Zaharia https://meet.google.com/cjz-ikzy-hbg





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





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

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

Section 4. Civil engineering and installations

Chairperson: Assoc. Prof. Petru Mihai

https://meet.google.com/xsd-kchh-xdi

| Time | Oral presentation | Authors |
|-------------|---|--|
| | ASSESSING CRITERIA FOR | Roozbeh Ebrahimi Golshanabadi |
| | MEASURING NORMAL | National University of Science and Technology |
| 15.45-16.00 | ROUNDABOUT PERFORMANCE | "Politehnica" Bucharest, Faculty of Transportation, |
| | BASED ON GEOMETRIC | Bucharest, Romania |
| | CHARACTERISTICS | (Civil engineering and installations) |
| | | Alexandru-Cristian Ionescu, Romeo Ciortan |
| 10.00.10.15 | SUSTAINABLE DEVELOPMENTS IN | ["] Ovidius" University Constanța, Faculty of Civil |
| 16.00-16.15 | THE PORT OF CONSTANȚA | Engineering, |
| | ROMANIA | (Civil engineering and installations) |
| -, TE | | Nicoleta Însurățelu, Costel Coroban, Ana Maria |
| | STAINED GLASS WINDOWS, | Grămescu |
| 16.15-16.30 | CANOPIES AND AWNINGS FROM HERITAGE BUILDINGS IN | "Ovidius" University of Constanța, Faculty of History |
| | | and Polytical Sciences, Constanța, Romania |
| | DOBROGEA | (Civil engineering and installations) |
| | | Marius Alexa, Nicolae Țăranu, Sebastian Valeriu |
| | | Hudişteanu, Nelu Cristian Cherecheş, Florin Emilian |
| | THEORETICAL ANALYSIS REGARDING COOLING PHOTOVOLTAIC THERMAL PANELS WITH WATER - CASE STUDY | Turcanu |
| 16.30-16.45 | | "Gheorghe Asachi" Technical University of Iasi, |
| | | Romania, Faculty of Civil Engineering and |
| | | Installations, Iasi, Romania |
| | | (Civil engineering and installations) |
| | | Bogdan Chelaru, Adrian Alexandru Şerbănoiu |
| | | "Gheorghe Asachi" Technical University of Iasi, |
| 16.45-17.00 | BIM DIMENSIONS APPLICATION FOR STRUCTURAL DESIGN | Romania, Faculty of Civil Engineering and |
| | | Installations, Iasi, Romania |
| | | (Civil engineering and installations) |
| 47.00.47.45 | UTILIZATION OF SUSTAINABLE | Răducu-Mihai Geantău, Ancuța Rotaru, Traian- |
| 17.00-17.15 | HYDROPHOBIC BIOMIMETIC | Dănuț Babor |





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

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

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

Chairperson: Prof. Rodica Harpa

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

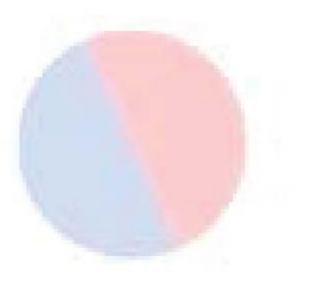
| Time | Oral presentation | Authors |
|-------------|---|---|
| 15.45-16.00 | SOLUTION FOR ONLINE MARKETING – VIRTUAL TESTING ROOM | Alice Mătășel, Maria Carmen Loghin, Andreea Talpă "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Industrial Design and Business Management, Iasi,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





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









Thursday, 16 May, 2024

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

Chairperson: Prof. Alexandru Sălceanu

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

10.50-11.15 Coffee break

Online Parallel Session 1.4: Thursday, 16 May, 11.15-13.15 Section 4. Civil engineering and installations

Chairperson: Assoc. Prof. Petru Mihai https://meet.google.com/npo-wrzp-sht

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





| 12.00-12.15 | COMPARATIVE STUDY OF THERMAL CONDUCTIVITY IN LIGHTWEIGHT CONCRETE WITH DIFFERENT WASTE MATERIALS | Radu Gabriel Mihai, Ștefănica Eliza Vizitiu, Gabriel Bejan, Dorin Avram, Marinela Bărbuță, Ligia Melinte, Mowaffak Tawfik "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) |
|--------------------------|---|---|
| 12.15-12.30 | MECHANICAL PROPERTIES AND FROST-THAW BEHAVIOR IN ROAD CONCRETE | Bogdan Ionel Luca^{1,2}, Alexandru Panțiru ¹ , Marinela Bărbuță ¹ "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania; ² Romanian Association of Earthquake Engineering (Civil engineering and installations) |
| 12.30-12.45 | EVOLUTION AND INNOVATION OF INDUSTRIAL STEEL RACKING SYSTEMS: A STRUCTURAL AND FUNCTIONAL ANALYSIS | Serban Iacob, George Țăranu, Nicolae Țăranu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) |
| 12.45-13.00 | NUMERICAL AND PHYSICAL EXPERIMENTS ON THE BEHAVIOR OF THE PERFORATED STEEL CORE COMPONENT OF BUCKLING RESTRAINED BRACES | Cosmin-Petru Mocanu-Basalic¹ , Septimiu George Luca ¹ , Petru Mihai ¹ , Irina Lungu ¹ , Elena Basalic Mocanu ² ¹ "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania; ² "Gheorghe Asachi" Technical University of Iasi-Romania, Faculty of Material Science and Engineering, Iasi, Romania (Civil engineering and installations) |
| <mark>13.00-13.15</mark> | CONSIDERATIONS ABOUT THE EFFICIENCY OF COMMONLY USED INSULATION MATERIALS AT EXTERNAL WALLS FOR HISTORIC BUILDINGS, USING NUMERICAL SIMULATION DATA AND FIELD MEASUREMENTS | Petru Cătălin Miltiade, Irina Baran, Laura Dumitrescu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) |

13.15-14.00 Lunch

Online Parallel Session 2.4: Thursday, 16 May, 11.15-12.45

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

Chairperson: Prof. Marian Poboroniuc

https://meet.google.com/ngm-wuhg-frt

| Time | Oral presentation | Authors |
|-------------|------------------------------|---|
| 11.15-11.30 | CHARACTERIZATION OF SPATIAL | Yining Wang ¹ , Zhenji Zhang ² , Daqing Gong ³ |
| 11.13-11.50 | AND TEMPORAL DISTRIBUTION OF | |





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

12.45-14.00 Lunch

Online Parallel Session 3.4: Thursday, 16 May, 11.15-12.30

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

Engineering and management

Chairperson: Prof. Mirela Blaga

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

| Time | Oral presentation | Authors |
|-------------|--|--|
| 11.15-11.30 | DIMENSIONS AND MANAGEMENT MODELS OF ORGANIZATIONAL WELLBEING | Nicoleta-Andreea Filip1, Dănuț-Constantin Filip1, IonVerzea1, Rachid Chaib21"Gheorghe Asachi" Technical University of Iasi,Faculty of Industrial Design and BusinessManagement, Iasi, Romania; 2"Freres Mentouri"University of Constantine, Department ofEngineering, Transport and Environment,Constantine, Algeria |





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

12.30-14.00 Lunch

Online Parallel Session 4.4: Thursday, 16 May, 11.15-12.45

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

Chairperson: Prof. Dan Dobrea

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

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





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

12.45-14.00 Lunch

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

Section 4. Civil engineering and installations

Chairperson: Assoc. Prof. Petru Mihai

https://meet.google.com/yuw-ydoc-gbg

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





| | TRADITIONAL AND MODERN TECHNIQUES EXPERIMENTAL SET-UP | "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) | |
|-------------|---|--|--|
| 14.15-14.30 | IMPORTANCE OF ACHIEVING ZERO EMISSION BUILDINGS (ZEB) FOR SUSTAINABLE DEVELOPMENT | Ioan Ursache, Andrei Burlacu "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) | |
| 14.30-14.45 | SUSTAINABLE HIGHWAY CONSTRUCTION PLANNING BY ADVANCING ENVIRONMENTAL CONSERVATION THROUGH AN INTEGRATED SOIL MAPPING AND LAND MANAGEMENT PLATFORM | George-Călin Baltariu¹ , Ilinca-Maria Baltariu ^{1,2} ¹ "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania; ² "Alexandru Ioan Cuza" University of Iasi, Faculty of Economics and Business Administration, Iasi, Romania (Civil engineering and installations) | |
| 14.45-15.00 | REDUCING RESOURCE CONSUMPTION IN SUBSTRUCTURE WORKS BY REUSING WASTE | Stelian-Ioan Tudoriu, Decebal-Cristian Andrii, Ancuța Rotaru "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) Marinela Scanghel "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Installations) Marinela Scanghel "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) | |
| 15.00-15.15 | STUDIES ON THE STABILIZATION OF FOUNDATION SOILS THROUGH ALTERNATIVE METHODS | | |
| 15.15-15.30 | MANAGING URBAN PLANNING IN A MAJOR ROMANIAN CITY: INTEGRATING INDUSTRIAL HERITAGE FOR PUBLIC SPACE RECONFIGURATION - GROUND RULES AND KEY APPROACHES | Razvan Nicolae Ivanciu "Gheorghe Asachi" Technical University of Iasi, Faculty of Civil Engineering and Building Services, Iasi, Romania (Civil engineering and installations) | |
| 15.30-15.45 | OPTIMIZATION METHODS FOR CIVIL ENGINEERING INVESTMENTS IN URBAN PROJECT AREAS | Andrei Bejusca ¹ , Ion Serbanoiu ¹ , Loredana Judele ¹ and Daniel Lepadatu ^{1,2} ¹ Gheorghe Asachi Technical University of Iasi- Romania, Faculty of Civil Engineering and Building Services Bd. D. Mangeron 1, Iași 700050, Romania ² Technical University of Moldova, Faculty of Urban Planning and Architecture, 2028 Chisinau, Republic of Moldova (Civil engineering and installations) | |

15.30-16.00 Coffee break





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

Section 5. Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management Chairperson: Prof. Manuela-Lăcrămioara Avădanei

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

| Time | Oral presentation | Authors | |
|----------------------------|---|-----------------------------------|---|
| | | Rebecca Ana | Maria Chiriță, Cristina - Elena |
| | | Ungureanu, I | pana-Alexandra Sbîrcea |
| 14.00 14.45 | PERSPECTIVE ON PERFORMANCE | University Po | litehnica of Bucharest, Doctoral School |
| 14.00-14.15 | MANAGEMENT FORMS | of Entreprene | eurship, Business Engineering and |
| | | Management | , Bucharest, Romania |
| | and the second | (Engineering | and management) |
| | LEAN SIX SIGMA 4.0: AN | Nicoleta-Mih | aela Căsăneanu Dascălu, Marius Pîslaru |
| | INNOVATIVE STRATEGY FOR A | "Gheorghe A | sachi" Technical University of Iasi, |
| 14.15-14.30 | SUSTAINABLE MANUFACTURING | Faculty of Inc | lustrial Design and Business |
| | The second se | Management | , lasi, Romania |
| 1.4 | ECOSYSTEM | (Engineering | and management) |
| | | Sebastian Birzu, Silvia Avasilcăi | |
| | THE EFFECT OF DIGITAL MARKETING | "Gheorghe A | sachi" Technical University of Iasi, |
| 14.30-14.45 | STRATEGIES ON THE GROWTH OF | Faculty of Inc | ustrial Design and Business |
| | THE COMPANY'S PERFORMANCE | Management | , lasi, Romania |
| | | (Engineering and management) | |
| | | Mihai-Doru E | uliga, Ion Verzea |
| | MANAGEMENT RISK MODELS. THEORETICAL APPROACH | "Gheorghe A | sachi" Technical University of Iasi, |
| 14.45 <mark>-15</mark> .00 | | Faculty of Inc | lustrial Design and Business |
| | | Management | r, Iasi, R <mark>omania</mark> |
| | | (Engineering | and management) |
| | | Laura-Crina N | /iraute Coca , Marius Pîslaru |
| | EVALUATION OF SUSTAINABILITY IN | "Gheorghe A | sachi" Technical University of Iasi, |
| 15.00-15.15 | THE PHARMACEUTICAL INDUSTRY | Faculty of Inc | lustrial Design and Business |
| | VIA PERFORMANCE INDICATORS | Management | , Iasi, Romania |
| | | (Engineering | and manage <mark>ment)</mark> |
| | | | |
| E 4E 46 00 | O ff has here t | 1 | |

15.15-16.00 Coffee break

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

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

Chairperson: Prof. Marius Olariu

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

| Time | Oral presentation | Authors |
|------|-------------------|---------|





| | | Mădălina Cojocariu, Matei-Constantin Moruz, |
|-------------|---|---|
| 14.00-14.15 | CURRENT DEVELOPMENTS IN THE | Petronela-Camelia Oprea |
| | TELEMEDICINE INFRASTRUCTURE | "Gheorghe Asachi" Technical University of Iasi, |
| 14.00 14.15 | IDENTIFIED WITH BIBLIOMETRIC | Faculty of Electrical Engineering, Energetics and |
| | TOOLS | Applied Informatics, Iași, Romania |
| | | (Electrical engineering) |
| 14.15-14.30 | UPPER LIMB REHABILITATION WITH EXOSKELETON MECHATRONIC SYSTEMS AND VR TECHNOLOGY | Sorin George Nechifor ¹ , Elena Nechifor ¹ , Marian- Silviu Poboroniuc ¹ , Cătălin Dosoftei ² , Gabriel- Florentin Chiriac ² ¹ "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics; ² Faculty of Automatic Control and Computer Engineering (Electrical engineering) |
| | STUDY ON ELECTROMAGNETIC | Marina-Georgiana Roman, Lidia Nedelcu |
| | INTERFERENCE IN DIFFERENT | "Gheorghe Asachi" Technical University of Iasi, |
| 14.30-14.45 | OPERATING ROOMS | Faculty of Electrical Engineering, Energetics and |
| | | Applied Informatics, Iași, Romania |
| | | (Electrical engineering) |
| 14.45-15.00 | PREDICTIVE MAINTENANCE FOR MEDICAL VENTILATORS BASED ON SOUND AND ELECTROMAGNETIC FIELD MEASUREMENTS | Lidia Nedelcu, Marina-Georgiana Roman "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iaşi, Romania (Electrical engineering) |
| | IDENTIFICATION AND | Adelina-Cristina Căsuță, Alexandru-Marian Bordaș |
| 15.00-15.15 | CHARACTERIZATION OF ELECTROMAGNETIC INTERFERENCES IN THE MEDICAL IMAGING CLINICAL CENTER | "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iași, Romania (Electrical engineering) |
| | | Veronica-Carmen Gheorghe, Radu Burlică |
| 15.15-15.30 | PERFORMANCE IMPROVEMENT OF DISTRIBUTION TRANSFORMERS FOR THE ENERGY SYSTEM | "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iași, Romania (Electrical engineering) |
| | | Mihăiță-Emanuel Anton |
| 15.30-15.45 | A COMPARATIVE FEM STUDY BETWEEN PERMANENT MAGNET AND WOUND FIELD SYNCHRONOUS MACHINES | "Gheorghe Asachi" Technical University of Iasi, Romania, Faculty of Electrical Engineering, Energetics and Applied Informatics, Iaşi, Romania (Electrical engineering) |

15.45-16.00 Coffee break

Online Parallel Session 4.5: Thursday, 16 May, 14.00-15.15

Section 2. Computers and information technology; Systems engineering; Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology Chairperson: Prof. Dan Dobrea https://meet.google.com/eqr-ijuz-qrw





| Time | Oral presentation | Authors |
|-------------|--|--|
| | | Constantin Catargiu |
| | | "Gheorghe Asachi" Technical University of Iasi- |
| 14.00-14.15 | NEW FIRE AND SMOKE DATASET USED FOR TRAINING YOLO AND | Romania, Faculty of Electronics, Telecommunications, |
| 14.00-14.15 | PERFORMANCE EVALUATION | and Information Technology lasi, Romania |
| | PERFORMANCE EVALUATION | (Electronic engineering, telecommunications and |
| | | information technology) |
| | | Irina Pavel, Iulian Ciocoiu |
| | FOREARM ELECTROMYOGRAM- | "Gheorghe Asachi" Technical University of Iasi- |
| 14.15-14.30 | BASED BIOMETRICS USING | Romania, Faculty of Electronics, Telecommunications, |
| 00 | BAG-OF-WORDS CLASSIFIERS | and Information Technology Iasi, Romania |
| | | (Electronic engineering, telecommunications and |
| | | information technology) |
| | and the second second | Alexandra-Iulia David |
| | GENERATIVE AI: ITS IMPACT, | "Gheorghe Asachi" Technical University of Iasi- |
| 14.30-14.45 | CHALLENGES, AND CONSEQUENCES | Romania, Faculty of Electronics, Telecommunications, |
| | ACROSS IT OCCUPATIONS | and Information Technology Iasi, Romania |
| | and the second sec | (Electronic engineering, telecommunications and |
| | | information technology) |
| | | Iulia-Petronela Onică, Iulian Ciocoiu |
| 100 | GESTURE IDENTIFICATION AND AUTHENTICATION BASED ON EMG SIGNALS USING BAG-OF WORDS CLASSIFIER | "Gheorghe Asachi" Technical University of Iasi- |
| 14.45-15.00 | | Romania, Faculty of Electronics, Telecommunications, |
| | | and Information Technology Iasi, Romania |
| | | (Electronic engineering, telecommunications and |
| | | information technology) |
| 16.7 | IMPACT OF ENERGY PRODUCTION | Gabriel-Dorin Melus "Gheorghe Asachi" Technical University of Iasi, |
| 15.00-15.15 | FROM RENEWABLE SOURCES ON | Romania, Faculty of Electrical Engineering, Energetics |
| 10.00 10.10 | THE INVESTMENT PLAN OF | and Applied Informatics, Iași, Romania |
| 1 | ELECTRICITY DISTRIBUTORS | (Energy engineering) |

15.15-16.00 Coffee break

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

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

Chairperson: Prof. Leandru Bujoreanu

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

| Time | Oral presentation | Authors |
|-------------|------------------------------|--|
| 16.00-16.15 | IN VITRO INVESTIGATION OF | Alexandra-Tamara Şutic, Romeu Chelariu, Nicanor |
| | BIODEGRADABLE ZnTi ALLOYS ON | Cimpoeșu, Ramona Cimpoeșu, Mihai Axinte, Ana-Maria |
| | CORROSION BEHAVIOUR IN A | Roman, Gheorghe Bădărău |
| | PHYSIOLOGICAL FLUID | |





| | | "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering) |
|-------------|--|--|
| 16.15-16.30 | ANALYSIS OF THE MAIN SOLICITATIONS OF MATERIALS FOR SALT WATER PUMPS | Magdalena-Gabriela Hutanu, Nicanor Cimpoesu, Liviu Andrusca, Vasile Manole, Mihai Axinte "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering) |
| 16.30-16.45 | ENHANCING ORTHOPEDIC APPLICATIONS: A COMPARATIVE STUDY OF TIMOSI AND TIGAI4V ALLOYS FOR IMPROVED BIOCOMPATIBILITY AND MECHANICAL PROPERTIES | Ion Ghiculescu¹, Marius Albert Mazilu¹, Mihai Tofan¹, Andrei Victor Sandu^{1,2}, Madalina Simona Baltatu¹, Petrică Vizureanu^{1,3} ¹"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering; ²Academy of Romanian Scientists, Bucharest, Romania; ³Academy of Technical Sciences, Bucharest, Romania (Materials engineering) |
| 16.45-17.00 | MODERN METHODS OF SEVERE PLASTIC DEFORMATION: A SHORT REVIEW | <u>Stefana Dochiţa-Agop</u> , Ioan-Gabriel Sandu, Nicanor Cimpoeșu, Costică Bejinariu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering) |
| 17.00-17.15 | IMPACT OF CHEMICAL CORROSION ON MECHANICAL CHARACTERISTICS OF MORTAR WITH NANOPARTICLES ADDITION | Elena Basalic Mocanu ¹ , Daniel Lepadatu ² , Cosmin Mocanu ² , Ramona Cimpoesu ¹ , Loredana Judele ² , Nicanor Cimpoesu ¹ ¹ "Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science and Engineering, ² Faculty of Civil Engineering and Building Services, Iasi, Romania (Materials engineering) |
| 17.15-17.30 | A DOCUMENTARY SYNTHESIS OF THE RESEARCH-DEVELOPMENT STAGE OF SOLID-STATE ORDER-DISORDER TRANSITION IN Cu-BASED SHAPE MEMORY ALLOYS | Serban Chimir, Leandru-Gheorghe Bujoreanu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Materials Science and Engineering, Iasi, Romania (Materials engineering) |

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

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

Chairperson: Prof. Antonela Curteza

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

| Time | Oral presentation | Authors |
|-------------|-------------------------------|--|
| | RESEARCH AND CONTRIBUTIONS | <u>Stefana-Cătălina Pohonțu-Dragomir,</u> Ionuț-Viorel |
| 16.00-16.15 | REGARDING THE ROLE OF THE IN- | Herghiligiu |
| | FORMATION SYSTEM IN | |





| | ORGANIZATIONAL SUSTAINABILITY | "Gheorghe Asachi" Technical University of Iasi- |
|-------------|--|--|
| | MAN- AGEMENT | Romania, Faculty of Industrial Design and Business |
| | | Management |
| | | (Engineering and management) |
| | | Mălina-Ioana Roșca, Ana-Diana Vatră, Manuela |
| | DIGITAL TOOLS FOR DEVELOPING | Lăcrămioara Avădanei |
| 16.15-16.30 | SUSTAINABLE SHAPES OF CLOTHING | "Gheorghe Asachi" Technical University of Iasi- |
| 10.13-10.30 | PRODUCTS FOR CUSTOMERS WITH | Romania, Faculty of Industrial Design and Business |
| | SPECIAL NEEDS | Management |
| | | (Engineering and management) |
| | and the second se | Florentina Bîrlădeanu Eftincă, Silvia Avasilcăi, Adriana |
| | EXPLORING MOST USED METHODS | Bujor, Ana Maria Dobranici Dumitrescu |
| 16.30-16.45 | OF EVALUATING HUMAN RESOURCE | "Gheorghe Asachi" Technical University of Iasi- |
| 10.50-10.45 | PERFORMANCE: IMPLICATIONS FOR | Romania, Faculty of Industrial Design and Business |
| | ORGANIZATIONAL SUCCESS | Management |
| | | (Engineering and management) |
| | 1. 1. 1. 1. 1. | Ana Maria Dobranici Dumitrescu, Silvia Avasilcăi, |
| 16.45-17.00 | ROMANIAN PRE-UNIVERSITY | Adriana Bujor, Florentina Bîrlădeanu Eftincă |
| | EDUCATION INSTITUTIONS: | "Gheorghe Asachi" Technical University of Iasi- |
| | SOCIAL OR BUSINESS | Romania, "Cristofor Simionescu" Faculty of Chemical |
| | ORGANIZATIONS? | Engineering and Environmental Protection |
| | and the second sec | (Environmental engineering) |

Online Parallel Session 3.6: Thursday, 16 May, 16.00-18.00

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

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

| Time | Oral presentation | Authors |
|-------------|--|---|
| 16.00-16.15 | PILLARS OF THE INDUSTRY 5.0 USED IN INDUSTRIAL ENGINEERING | Florin-Daniel Edutanu "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering) |
| 16.15-16.30 | IMPROVED PROPERTIES BY FFF BICOMPONENT 3D PRINTING OF POLYMERS – A REVIEW | Maria Catana, Simona-Nicoleta Mazurchevici, Dumitru Nedelcu "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering) |
| 16.30-16.45 | METHODS AND TOOLS IN A STEP BY STEP APPROACH FOR CAPABILITY ANALYSIS WITH A CASE STUDY FOR THE IMPROVEMENT OF A GRINDING PROCESS WITHIN AN AUTOMATED UNIT | <u>Laurențiu Larco</u> "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering) |





| 16.45-17.00 | PROCESS PARAMETERS REGARDING INFILL, AVAILABLE IN THE ULTIMAKER CURA SOFTWARE | Alexandru-Ionuț Irimia, Vasile Ermolai, Răzvan Stavarache, Gheorghe Nagîț "Gheorghe Asachi" Technical University of Iasi, Faculty of Faculty of Machine Manufacturing and Industrial Management Iasi, Romania (Industrial engineering) |
|-------------|--|---|
| 17.00-17.15 | HARNESSING HEAT FROM VEHICLE EXHAUST FOR AUTOMOTIVE APPLICATION | Robert-Marian Bleoţu, Cosmin Preda "Lucian Blaga" University of Sibiu, Department of Industrial Machinery and Equipment, Victoriei Street 10, 550024, Sibiu, Romania (Industrial engineering) |
| 17.15-17.30 | 3D PRINTING OF PARTS USING BIODEGRADABLE FILAMENTS REINFORCED WITH METALLIC PARTICLES | Lucian-Corneliu Dârlău "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Machine Manufacturing and Industrial Management, Iasi, Romania (Industrial engineering) |
| 17.30-17.45 | REINFORCING INFILL STRUCTURE FOR MATERIAL EXTRUSION ADDITIVE MANUFACTURING | Răzvan Cosmin Stavarache, Vasile Ermolai, Alexandru Ionuț Irimia "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Machine Manufacturing and Industrial Management, Iasi, Romania (Industrial engineering) |
| 17.45-18.00 | PLASMA JET COPPER COATING OF 3D PRINTED BIODEGRADABLE MATERIALS – A REVIEW | Mihaela Feraru Ilie, Simona-Nicoleta Mazurchevici, Dumitru Nedelcu "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Machine Manufacturing and Industrial Management, Iasi, Romania (Industrial engineering) |

Online Parallel Session 4.6: Thursday, 16 May, 16.00-18.00 Section 5: Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management Chairperson: Prof. Viorel Paleu

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

| Time | Oral presentation | Authors |
|-------------|---|--|
| 16.00-16.15 | DESIGN ANALYSIS OF GEAR WITH THE USAGE OF THE ADVANCED COMPUTER PROGRAM | Nikola Veleski, Ljupco Trajcevski ["] University "St. Kliment Ohridski" Bitola, Faculty of Technical Sciences, Bitola, North Macedonia (Mechanical engineering) |
| 16.15-16.30 | EXPLORING THE HYPERELASTIC BEHAVIOR OF EPDM RUBBER SPRINGS: A COMPREHENSIVE ANALYSIS | George Popa ^{1,2} , Dragoș Luca ² , Viorel Paleu ^{1,2} ¹ "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania; ² Continental Automotive Iași, Romania (Mechanical engineering) |
| 16.30-16.45 | OVERVIEW ON VEHICLE - BRIDGE COUPLED VIBRATIONS | Adi-Mihăiță Velniciuc |





| | | "Gheorghe Asachi" Technical University of Iasi, |
|-------------|---|---|
| | | Faculty of Mechanical Engineering, Iasi, Romania |
| | | (Mechanical engineering) |
| 16.45-17.00 | OPTIMIZATION OF PROTECTIVE THERMAL SHIELDS FOR TEG ENERGY RECOVERY DEVICES IN ICE SYSTEMS | George Achitei, Lamara Achitei, Aristotel Popescu "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering) |
| 17.00-17.15 | ASSESSMENT OF POLYCRYSTALLINE, MONOCRYSTALLINE, AND AMORPHOUS SOLAR PANELS UNDER DYNAMIC ENVIRONMENTAL CONDITIONS: PERFORMANCE INSIGHTS FOR RENEWABLE ENERGY | Eduard Enasel, Gheorghe Dumitrașcu "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering) |
| | APPLICATIONS | 126-5 |
| 17.15-17.30 | HYDRAULIC MANIFOLDS BLOCKS – OPTIMIZATIONS, SIMULATIONS AND TESTING METHODS. A REVIEW | Narcis Ioan Tica "Gheorghe Asachi" Technical University of Iasi- Romania, Faculty of Faculty of Machine Manufacturing and Industrial Management, Iasi, Romania (Mechanical engineering) |
| 17.30-17.45 | THE PROCESS OF MAKING COMPOSITE MATERIALS WITH CARBON FIBER, BASALT OR FLAX | Ionut Mititelu, Paul Doru Bârsănescu "Gheorghe Asachi" Technical University of Iasi, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering) |
| 17.45-18.00 | ASSESSMENT OF HARMFUL EMISSIONS BY COMBUSTION PROCESSES OF NATURAL GAS AND HYDROGEN MIXTURES, AT PRESCRIBED COMBUSTION TEMPERATURE AND PRESSURE | Ovidiu Trofin ¹ , Mădălina Boțu ¹ , Gheorghe Dumitrașcu ² ¹ National Research and Development Institute for Gas Turbines, COMOTI, Bucharest, Romania ² "Gheorghe Asachi" Technical University of Iași, Faculty of Mechanical Engineering, Iasi, Romania (Mechanical engineering) |

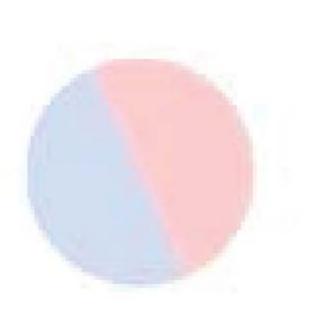
Onsite Parallel Session 5.6: Thursday, 16 May, 16.00-17.30, SALA C101, CORP T, ET.1 WORKSHOP: Applications of artificial intelligence in the industrial domains Chairpersons: Prof. Maria-Carmen Loghin, Lector dr. Alin Dragomir

| Time | Oral presentation | Authors |
|-------------|-------------------------------|---|
| | FUZZY SYSTEM WITH NEURAL | Adrian Vîlcu, Mădălina Laura Veleșcu |
| | NETWORK - GENERATED RULES | "Gheorghe Asachi" Technical University of Iasi, |
| 16.00-16.15 | IN AN ARTIFICIAL INTELLIGENCE | Faculty of Industrial Design and Business |
| | APPLICATION FOR EVALUATING | Management, Iasi, Romania |
| | TECHNICAL RESILIENCE | |
| | IMPROVING INFRARED | Alin Dragomir, Maricel Adam, Silviu Marian Antohi |
| | THERMOGRAPHIC INSPECTIONS OF | "Gheorghe Asachi" Technical University of Iasi, , |
| 16.15-16.30 | ELECTRICAL INSTALLATIONS | Faculty of Industrial Design and Business |
| | THROUGH THE CONTRIBUTION OF | Management, Iasi, Romania |
| | ARTIFICIAL INTELLIGENCE | |





| | AUTONOMOUS MOBILE ROBOTS | <u>Anca Maxim,</u> Ovidiu Păucă, Constantin Florin |
|-------------|---|--|
| | LOGISTICS APPLICATION USING | Căruntu |
| | MULTI-PARAMETRIC MODEL | "Gheorghe Asachi" Technical University of lasi, |
| 16.30-16.45 | PREDICTIVE CONTROL – AN | Faculty of Automatic Control and Computer |
| | ARTIFICIAL INTELLIGENCE | Engineering, Iasi, Romania |
| | FORMULATION | |
| | | Georgiana Bunea ¹ , Florin Leon ² |
| | EVALUATION OF POST-SEISMIC EVACUATION USING ARTIFICIAL MULTIAGENT SYSTEMS – CASE STUDY | ¹ "Gheorghe Asachi" Technical University of lasi- |
| 16.45-17.00 | | Romania, Faculty of Civil Engineering and Building |
| | | Services; ² Faculty of Automatic Control and |
| | | Computer Engineering, Iasi, Romania |
| | ENHANCING VEHICLE ASSEMBLY WITH AI-DRIVEN GAZE DETECTION IN AUGMENTED REALITY SYSTEMS | Petronela Bonteanu, Gabriel Bonteanu |
| 17.00-17.15 | | "Gheorghe Asachi" Technical University of Iasi, |
| 17.00-17.15 | | Faculty of Electronics, Telecommunications and |
| | | Information Technology, Iasi, Romania |
| | ARTIFICIAL INTELLIGENCE SYSTEMS IN ELECTRICAL SWITCHBOARDS | Silviu Marian Antohi, Maricel Adam, Alin Dragomir |
| 17.15-17.30 | | "Gheorghe Asachi" Technical University of Iasi, |
| 17.15 17.50 | | Faculty of Industrial Design and Business |
| | | Management, Iasi, Romania |
| 17.30-18.00 | Discussions | |







Friday, 17 May, 2024

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

Chairperson: Prof. Alina-Adriana Minea

| 0 20 10 10 | Photodegradable polymers and polymer | Prof. dr. MARIA VAMVAKAKI |
|-------------|---|---------------------------------------|
| 9.30-10.10 | networks | Technical University of Crete, Greece |
| | Dielectric spectroscopy: a viable tool for cable insulation diagnosis | Prof. dr. DAVIDE FABIANI |
| 10.10-10.50 | | Alma Mater Studiorum – Università di |
| | cable insulation diagnosis | Bologna, Italy |
| Link | https://meet.google.com/ztz-yeys-dxp?hs=224 | |
| | 11 1 | |
| 10.50-11.15 | Coffee break | |
| | | |

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

Chairpersons: Prof. Maria Gavrilescu, Prof. Nicolae Hurduc

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





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

| 13.00-14.00 Lunch |
|-------------------|
|-------------------|

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

Section 1. Interdisciplinary studies

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

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





| | INFLAMMATORY SYNDROME OF THE ORAL | Chemical Engineering and Environmental |
|-------------|---|--|
| | CAVITY | Protection, Iasi, Romania |
| | | (Chemical engineering) |
| 14.45-15.00 | ROBOT TECHNOLOGY USED IN | Marius Dobîndă |
| | REHABILITATION – A STUDY COMPARISON | "Alexandru Ioan Cuza" University of Iasi, |
| | WITH OVERGROUND GAIT TRAINING IN | Faculty of Physics, lasi, Romania |
| | HEMIPLEGIC PATIENT | (Physics) |
| 15.00-15.15 | | Ramona Plesnicute ¹ , Iuliana Motrescu ² , |
| | STUDY ON THE PHOTOCHEMICAL | Anda Les Agavriloaei ¹ , Dorina Creangă ¹ |
| | SYNTHESIS OF SILVER NANOPARTICLES | ¹ "Alexandru Ioan Cuza" University of Iasi, |
| | USING CHEMICAL AND BIOLOGICAL | Faculty of Physics; ² Ion Ionescu de la Brad |
| | REDUCERS – PRELIMINARY RESULTS | University of Life Sciences, Iasi, Romania |
| | | (Physics) |
| | | Elena Farcaş ¹ , Leonard Ionuț Atanase ^{2,3} |
| | EXPLORING INNOVATIONS IN HYBRID HYDROGELS FOR EFFECTIVENESS IN | ¹ "Cristofor Simionescu" Faculty of |
| | | Chemical Engineering and Environmental |
| 15.15-15.30 | TREATING VARICOSE ULCERS IN THE | Protection; ² "Apollonia" University of Iasi, |
| | CONTEXT OF VASCULAR HEALTH | Romania; ³ Academy of Romanian |
| | | Scientists, Bucharest, Romania |
| | | (Chemical engineering) |
| | | Raluca-Maria Tâbuleac ¹ , Maria |
| | ADVANCING RESPONSIBLE TOURISM- IMPLEMENTING SUSTAINABLE DEVELOPMENT GOAL TARGETS IN TOURIST DESTINATIONS | Gavrilescu ^{1,2} |
| | | ¹ "Gheorghe Asachi" Technical University of |
| 15.30-15.45 | | Iasi, Romania, "Cristofor Simionescu" Faculty of Chemical Engineering and |
| 13.30-13.43 | | Environmental Protection, Iasi, Romania; |
| | | ² Academy of Romanian Scientists, |
| | 1 | Bucharest, Romania |
| | | (Environmental engineering) |
| | | |

15.45-16.00 Coffee break

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

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

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





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

SOME KEY FIGURES:

- ✓ 178 papers
- ✓ participants from 10 countries (authors and co-authors)
- ✓ 16 Romanian universities, 15 foreign universities
- Romanian Academy and 2 branch Romanian Academies
- ✓ 6 research and development Romanian institutes and agencies, 3 foreign research and development institutes and agencies
- ✓ 2 companies
- ✓ 1 secondary school





THANK YOU FOR ATTENDING CSD2024!

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