

**The 34<sup>th</sup> Annual Conference of the  
European Association for Education in Electrical and Information Engineering**  
June 18-20 , 2025, Cluj- Napoca, Romania

**EAEIE 2025**

**Foreword**

It is with great pleasure that we welcome you to the **34<sup>th</sup> Annual Conference of the European Association for Education in Electrical and Information Engineering (EAEIE 2025)**, organised by the Technical University of Cluj-Napoca, Romania, (member of the European University of Technology – eut+), Faculty of Electrical Engineering which takes place between 18<sup>th</sup> to 20<sup>th</sup> June 2025 in the vibrant city of Cluj-Napoca, Romania.

Organized annually by the European Association for Education in Electrical and Information Engineering (EAEIE), this conference continues its tradition of serving as a vital forum for advancing education in Electrical and Information Engineering (EIE) across Europe. The event is technically co-sponsored by the IEEE Education Society Romania, and all accepted and presented papers will be submitted for publication in the IEEE Xplore® Digital Library. This year's conference focuses on a relevant and forward-looking theme: “Next-Level Learning: How Emerging Technologies are Reshaping Education?”

In an era defined by rapid technological transformation, the education landscape is evolving at an unprecedented pace. From artificial intelligence and machine learning to augmented reality and smart learning environments, emerging technologies are not only reshaping how we teach and learn but also redefining the skills our students need to succeed in the modern world. EAEIE 2025 aims to explore this shifting paradigm, bringing together academic leaders, researchers, companies, and students to engage in meaningful dialogue and collaboration.

EAEIE 2025 invites participants to share their experiences, present case studies, and discuss practical applications of emerging technologies in educational contexts. The conference especially encourages the participation of younger academics, PhD and Master of Science students within a Workshop dedicated to PhD students and Young Researchers providing a platform for professional growth, mentorship, and cross-institutional learning. Attendees will not only gain valuable insights into current and future trends but also forge new partnerships between academia and industry, helping to ensure our curricula and research agendas remain responsive to real-world challenges and opportunities.

EAEIE, representing nearly seventy institutions across the continent, is dedicated to enhancing EIE education through promoting international collaboration, supporting lifelong learning, and contributing to both scientific and educational research. At the heart of this mission is a commitment to innovation in teaching and learning — a focus more relevant than ever in present times.

We are especially grateful to our distinguished keynote speakers for sharing their knowledge and expertise on the impact of new technologies in Engineering Education and Research, as well as on the development of a European degree in Engineering.

We sincerely thank our main sponsor, Energobit, as well as ROHDE & SCHWARZ Romania S.R.L. , Bosch Engineering Centre, and Unitech for their continued support and valuable collaboration. We are deeply grateful to all participants for their invaluable efforts and contributions to the success of the EAEIE 2025 Conference. We look forward to an event that is dynamic, inspiring, and truly impactful.

Warm regards,

**EAEIE 2025 Organizing Committee**

Technical University of Cluj Napoca, Romania

# BRIEF PROGRAM



[eaeie2025.utcluj.ro](http://eaeie2025.utcluj.ro)

## The 34<sup>th</sup> Annual Conference of the European Association for Education in Electrical and Information Engineering

**EAEIE'2025**

18-20 June 2025  
Cluj Napoca, Romania



### Wednesday 18<sup>th</sup> June 2025

08.30-17.00	Registration
09.30-10.30	Opening
10.30-11.00	Plenary session 1: Edmundo Tovar
11.00-11.30	Coffee Break
11.30-12.30	Plenary Session 2: Timothee Toury & Cristian Haba
12.30-14.00	Lunch
14.00-15.30	Session 1
15.30-16.00	Coffee break
16.00-18.00	Guided city tour + EAEIE 2025 Council meeting
19.00-23.00	Welcome dinner Grand Italia

### Thursday 19<sup>th</sup> June 2025

09.00-17.00	Registration
09.00-10.00	Plenary Session 3: Adrian Groza & Oana Muraru
10.00-10.30	Coffee Break
10.30-12.30	Session 2
12.30-14.00	Lunch
14.00-17.00	Visit to Bosch Research Centre or Guided city tour
19.00-24.00	Banquet dinner Chios Social Lounge

### Friday 20<sup>th</sup> June 2025

09.00-10.30	Session 3
10.30-11.00	Coffee Break
11.00-12.00	Closing Ceremony
12.00-13.30	Lunch
14.00-19.00	Trip to Salt Mine Turda

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- Grigoris Papagiannis (Aristotle University of Thessaloniki, GR)
- Hélène Frémont (University of Bordeaux, FR)
- Helgi Thorbergsson (University of Iceland, Reykjavík, IS)
- Horia Beleiu (Technical University of Cluj-Napoca, RO)
- Horia Hedesiu (Technical University of Cluj Napoca, RO)
- Ian Grout (University of Limerick, IE)
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- Inácio Fonseca (Coimbra Institute of Engineering, PT)
- Ismo Hakala (University of Jyväskylä, Kokkola, FI)
- Jaromír Hrad (Czech Technical University in Prague, CZ)
- Jean-Marc Thiriet (Grenoble Alpes University, Grenoble, FR)
- Johann A Briffa (University of Malta, MT)
- Josef Hynek (University of Hradec Kralove, CZ)
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- Sara Blanc Clavero (Universitat Politècnica de Valencia, ES)
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- Sergey Dubikovskiy (Purdue University, US)
- Simona Vlad (Technical University of Cluj-Napoca, RO)
- Stefan Cirstea (Technical University of Cluj-Napoca, RO)
- Stephan Bannwarth (Darmstadt University of Applied Sciences, DE)
- Susan M. Lord (University of San Diego, US)
- Tarık Kışla (Ege University, İzmir, TR)
- Tatjana Welzer (University of Maribor, SI)
- Telmo Fernandes (Polytechnic Institute of Leiria, PT)
- Theofilos Papadopoulos (Aristotle University of Thessaloniki, GR)
- Titus Crisan (Technical University of Cluj-Napoca, RO)
- Tomáš Zeman (Czech Technical University in Prague, CZ)
- Vicent Lorente (Universitat Politècnica de Valencia, ES)

## EAEEIE 2025 Keynote Speakers

**Edmundo Tovar**



**Universidad Politécnica de  
Madrid, Spain**

2023-2024 IEEE Education Society,  
Jr.Past President  
2024 IEEE Technical Activities  
Board/PSPB Products and Services  
Committee

**Title: Open Education: Old challenges, new generative solutions**

**Biography:** Edmundo Tovar, IEEE Senior member, received a Computer Engineering degree and a Ph.D. degree in Informatics from the Universidad Politécnica de Madrid, (UPM), Madrid, Spain, in 1986 and 1994, respectively. Currently (2001-), with UPM, he is a professor of IT in enterprises. He has served as an elected member of the Open Courseware Consortium Board of Directors (2009–2013), Executive Director of the OCW Office of the UPM (2008–2012), and Executive Director of the Open Education Office at UPM (2013-2016). He leads an Innovation Group and a Research Group in technologies applied to Open Education. He is the Editor of the Information Technology Editorial Board of MERLOT (Educational Resource for Learning and Online Teaching -www.merlot.org). He is the author of around 300 papers in Engineering Education. He has been a member at large of the IEEE Education Society Board of Governors (2005–2018), President-Elect (2019-2020), President (2021-2022). Currently he is 2025 Educational Products Editorial Committee Chair (IEEE Educational Activities Board), and 2025 IEEE Technical Activities Board /PSPB Products and Services Committee member. He was awarded the 2022 "Ramón Llull" Research National Prize in Computer Engineering.

**Cristian-Győző Haba**



**Gheorghe Asachi Technical  
University of Iasi, Romania**

2019—present President of IEEE  
Education Romania Chapter

**Title: AI-Powered Teaching: Innovations & Practical Tools for Every Engineering Educator**

**Biography:** Prof.dr.ing. Cristian Győző-Haba was born in Iasi, Romania and received the BSc and Ph.D. degrees in Electrical Engineering in 1988 and automatic control respectively in 2000 from "Gheorghe Asachi" Technical University, Iasi, Romania, with a focus on the development of digital design techniques. He is a professor at the Faculty of Electrical Engineering of the "Gheorghe Asachi" Technical University of Iasi and the director of the Department of Electrical Engineering. He is also a member of the Commission for Resource Management and Institutional Development of the University Senate and member of the research team of the Energy Conversion and Motion Control Systems Research Centre (SCECM). His main research interests include design of digital systems, microcontroller-based systems, online education (remote access laboratories, virtual laboratories) and web-based measurement systems. He is a member of IEEE, ACM and EAI and since 2019 Chair of the IEEE Romania Education Chapter.

**Timothée Toury**



**University of Technology  
Troyes, France**

Secretary General of the European  
University of Technology Alliance  
EUt+

**Title: Building a European degree in Engineering**

**Biography:** Timothée Toury is the Secretary General of the European University of Technology, EUt+ where he initiated the original idea and vision. He has been Associate Professor (physics, non-linear and quantum optics, nanotechnologies) at Université de Technologie de Troyes (UTT, France) since 2006. He has been Director of Academic Affairs Of UTT and First Vice-President of Université de Champagne. He graduated from Ecole normale supérieure de Paris and Cachan (now ENS Paris-Saclay) where he obtained a PhD in physics in 2005. He has been a research engineer for technology transfer at the CNRS. He has more than 45 international reviewed papers, international patents, book chapters... He has been leader of 5 and involved in 8 European, national and regional research projects. He is a board member of the "Commission des titres d'ingénieurs" (ENAE member), and has been an expert for the World Bank and French development agency (AFD) in university governance and higher education and pedagogy reform. He led or is leading six European projects. He is and has been a member of numerous executive boards, academic council or steering committees of higher education institutions.

## EAEEIE 2025 Keynote Speakers

**Adrian Groza**



**Technical University of Cluj  
Napoca, Romania**

Vice-Rector for IT Infrastructure and  
Digitalization

**Title: Brave New World: AI in Teaching and Learning**

**Biography:** Professor Adrian Groza has been teaching Artificial Intelligence at the Computer Science Department of the Technical University of Cluj-Napoca for 20 years. His research focuses on knowledge representation and reasoning, as well as Explainable AI, with applications in the medical domain and the detection of fake news. He is the author of the book *Modelling Puzzles in First-Order Logic* (Springer, 2021), which supports the teaching of artificial intelligence.

**Oana Muraru-Teberean**



**Bosch Romania**  
University Relation Manager at  
Bosch Romania

**Title: Bridging Industry and Academia**

**Biography:** Oana Muraru-Teberean is currently the University Relations Manager at Bosch Romania. She is responsible for the development of the collaboration and cooperation between Robert Bosch Engineering Center Cluj and the local and national academic environment. She obtained a Bachelor of Engineering (B.E.), Engineering and Management of Production Systems Department in 2004, and she graduated a Master of Science in Management, Business Administration and Management in the frame of PROGRAMME COPERNIC, Sciences Politiques Paris in 2006.



# EAEIE 2025 DETAILED PROGRAM

18 June 2025

8.30-17.00	Registration	Desk
9.30-10.30	Opening Ceremony	Amphitheatre
10.30-11.00	Plenary session 1: Prof. Edmundo Tovar	
11.00-11.30	Coffee Break	First floor
11.30-12.30	Plenary Session 2: Prof. Timothee Toury, Prof. Cristian Haba	Amphitheatre
12.30-14.00	Lunch	Restaurant

## Session 1: Artificial Intelligence, Immersive technologies used in Engineering Education & Research. Cybersecurity Session Chairs: Bidyut Baruah & Simona Vlad

Time	ID	Paper Title	Authors	Room
14.00-14.15	21	Cyber Security in Education of Electrical Engineering	Jaromír Hrad, Tomáš Zeman	Amphitheatre
14.15-14.30	26	GenAI and Writing Age – can we use it in detection of use?	Anthony Ward	
14.30-14.45	71	Electricity Theft Detection Using Machine Learning Approaches: A Case Study in Türkiye	Erkam Cetkin; Burak Bozbuga; Berk Furkan Kalayci; Mert Ilhan Ecevit; Tugce Balli; Murat Can Yuksel; Seyit Cem Yilmaz; Oguzhan Ceylan	
14.45-15.00	48	Enhancing Student Engagement and Lecturer Roles in Electrical Educational Programs using LLM Models	Inácio Fonseca; Nuno Cid Martins; Fernando Lopes	
15.00-15.15	59	Analyzing Strengths and Weaknesses in Using AI in Engineering Education	Anna Friesel	
15.15-15.30	65	Dropout in ICT-related programs. Causes and possible interventions at the Universitat Politècnica de València	Jose Benlloch-Dualde; Sofía Aparisi-Torrijo	

## Session 1: E-learning, Mobile learning & Computer-Based Learning, Social media in Engineering Education Session Chair: Angela Lungu & Alina Tomos

Time	ID	Paper Title	Authors	Room
14.00-14.15	79	Inter-Mediterranean Peace and Collaboration Experiences	Tatjana Welzer; Saša Grašič	Room 1
14.15-14.30	80	Experiences from blended intensive programs	Tatjana Welzer; Saša Grašič; Tomi Perša; Marko Hölbl	
14.30-14.45	19	Shaping a Better Future by Integrating Sustainability Projects into Educational Activities	Claudia Constantinescu; Claudia Pacurar; Calin Munteanu; Adina Giurgiuman; Sergiu Andreica; Marian Gliga; Laura Grindei; Rodica Holonec	
14.45-15.00	90	The role of internships as a motor for sustainable and binding learning between university, government and community: A project of DivAirCity and the Electricity Technology academic programme at the Distrital University (Bogotá D.C.)	Yaqueline Garzón-Rodríguez; Clara Inés Buriticá-Arboleda; Camilo-A. Arias-Henao; Yolanda T. Hernández-Peña; Helmuth E. Ortiz-Suárez; Elisa Peñalvo-López; Iván Valencia-Salazar	
15.00-15.15	89	Asynchronous online courses for training in Energy Transition Audits	Elisa Peñalvo-López; Iván Valencia-Salazar; Vicente León-Martínez; Joaquín Montañana-Romeu; Clara Andrada-Monrós; Amparo León-Vinet	
15.15-15.30	4	Integrating AI Tools in Higher Education: Assessing the Benefits, Risks, and Ethical Implications of an 'AI-First Mindset' in Australian Higher education	Nitirajsingh Sandu;Shakir Karim; Ketmanto Wangsa; Jyot Singh Prabhu	

18 June 2025

Session 1 : E-learning, Mobile learning & Computer-Based Learning, Social media in Engineering Education				
Session Chair: Claudia Pacurar & Anca Nicu				
Time	ID	Paper Title	Authors	Room
14.00-14.15	76	Integrating STEM Education in Engineering Training for Generation Z: Strategies and Challenges	Anca NICU; Denisa Şteţ; Angela Lungu	Room 2
14.15-14.30	74	A blended, on-campus & at-home, approach to academic projects on electronic circuits	Marius Neag; Raul Onet; Valentin Beleca; Eduard Vladu; Alessandro Battigelli	
14.30-14.45	81	Integrating Economic and Sustainable Practices into Electrical Machine Education	Diana Artudean; Dan-Cristian Popa; Lorand Szabo	
14.45-15.00	9	Supporting the Quality of Higher Education in Engineering by Organizing Student Competitions - ZEM 2025	DORIAN COJOCARU; Dorin Popescu; Florin Manta; Ionut Resceanu; Florina Luminita Petcu; Cristina Pana; Horatiu Roibu; Daniela Pana Patrascu; Nicu-George Bizdoaca	
15.00-15.15	23	Modelling the voltage distribution on a chain of insulators using OrCAD. A New Approach in Teaching Electrical Engineering	Laura Darabant , Octavian Cret; Cristina Vatavu	
15.15-15.30	52	The experimental study of the Buck-Boost converter developed using Arduino Nano and the Matlab Simulink	Mihai Adrian Iuoraş; David Natanael Rus; Vasile Mihai Suciu; Sorin Ionuţ Salcu; Norbert Csaba Szekely	
Session 1: Education & Research activities in cooperation with the industry				
Session Chair: Marius Purcar & Marius Neag				
Time	ID	Paper Title	Authors	Room
14.00-14.15	37	CUSTOM HANDS-ON EXPERIENCE FOR STUDENTS - STUDYING TRANSISTOR SWITCHING	Norbert Szekely; Sorin Ionuţ Salcu; Mircea Bojan; Lucian Nicolae Pintilie; Vasile Mihai Suciu; Mihai Adrian Iuoraş	Room 3
14.15-14.30	38	Texas Instruments and Altair Embed based educational solution for electrical machines and drives study	Vasile Suciu; Lucian Nicolae Pintilie; Adrian Mihai Iuoraş; Norbert Csaba Szekely; Csaba Szabo	
14.30-14.45	40	Enhancing Attractiveness and Transdisciplinary Innovation in Electrical Engineering Research Master’s Curricula	Marian Poboroniuc; Elena Nechifor; Sorin George Nechifor; Iulia Adelina Bonceag	
14.45-15.00	46	PLECS RT BOX and NI MyRIO based educational power electronics Hardware in the Loop setup	Lucian Nicolae Pintilie; Petre Dorel Teodosescu; Horia Cornel Hedeşiu; Vasile Mihai Suciu; Norbert Csaba Szekely; Adrian Mihai Iuoraş	
15.00-15.15	92	Case Study on Teaching Methods in Electronics and Telecommunications Undergraduate Studies	Adrian Calin Farcas; Botond Kirei; Marina Dana Topa	
15.15-15.30	14	Analysis of graduates’ employability skills from industrial partners' point of view	Dorin Popescu	
15.30-16.00	Coffee Break			First floor
16.00-18.00	Guided City Tour / EAEEIE Council Meeting			Room 3
19.00-23.00	Welcome dinner Grand Hotel Italia, <a href="https://grandhotelitaliaciuj.ro/">https://grandhotelitaliaciuj.ro/</a> Str. Vasile Conta 2, Cluj-Napoca 400478			



# 19 June 2025

8.30-17.00	Registration			Desk
9.00-10.00	Plenary Session 3: Adrian Groza, Oana Muraru			Amphitheatre
10.00-10.30	Coffee Break			First floor
10.30-12.30	Session 2			
Session 2: IoT, Robotics, Gamification, Virtual Labs & PBL, CBL in Engineering Education Sessions' Chairs: Anna Friesel & Anthony Ward				
Time	ID	Paper Title	Authors	Room
10.30-10.45	32	DivAirCity: Developing digital tools for Citizen Engagement and Climate Neutral Cities	Orestis Tsirakis; Filitsa Ioanna Kouskouveli; Grigoris Papagiannis	Amphitheatre
10.45-11.00	30	Advertising Higher Engineering Education Through a Competition	Jaromír Hrad; Dušan Maga	
11.00-11.15	49	Social Impact of AI on the Organization of Higher Education in Electrical Engineering and in Society	Inácio Fonseca; Nuno Cid Martins; Fernando Lopes	
11.15-11.30	31	Game Design and Virtual Reality: Integration of innovative technologies in higher education	Diyana Kinaneva; Georgi Hristov; Georgi Georgiev; Plamen Zahariev; Venseslav Kolev; Radovesta Stewart	
Session 2: Curricula for Global Technical Challenges, European Curriculum design. Quality management & Accreditation in technology-rich environments				
Time	ID	Paper Title	Authors	Room
11.30-11.45	10	Curricula Developments regarding Industry 4.0 in an Asian-European partnership in 3 countries in South-East Asia	Jean-Marc Thiriet; Roungsan CHAISRICHAOREN; Denis GENON-CATALOT; Vimontha KHIEOVONGPHACHANH; Denis LUBINEAU; Stephane MOCANU; Emil NOVAKOV; Phosy PANTHONGSY; Kanthanet THAROT; Kosorl THOURN; Hamed YAHOU	Amphitheatre
11.45-12.00	13	New technical platform on chip packaging dedicated to practical training in microelectronics	Mohammed IRAR; Olivier BONNAUD; Ahmad BSIESY	
12.00-12.15	24	Identifying the non-technical barriers of energy audits in industries: the EnTRAINER project approach	Theofilos Papadopoulos; Ioanna Pasiopoulou; Grigoris Papagiannis	
12.15-12.30	47	Mapping Trends and Challenges in Electrical and Information Engineering Education	Nuno Cid Martins; Inácio Fonseca; Fernando Lopes	
Session 2: Young researchers in Engineering (special session dedicated to Master & PhD students) Sessions' Chair: Nina Bencheva & Dante Augusto Couto Barone				
Time	ID	Paper Title	Authors	Room
10.30-10.45	39	A web application as a pedagogical accessibility tool to assist sighted professor in learning the Braille system	Roberto Nascimento; Dante Barone; Regina Heidrich; Arthur Araújo; Henrique Lindemann; Nina Bencheva	Room 1
10.45-11.00	66	Energy Transition at the Local Community Level: Challenges, Solutions and Impact	Urda Adrian Ilie; Andrei Ceclan; Radu Adrian Munteanu; Timea Farkas; Dan Micu	
11.00-11.15	70	A review of ground-based robotic systems for search and rescue	Yanko Boyanov; Orlin Petrov; Tsvetelina Georgieva	
11.15-11.30	83	Integrating Mathematica into Academic Courses: Enhancing Student Learning in the Study of Electromagnetic Wave Propagation	Opris Lavinia Nicoleta; Munteanu Calin	
11.30-11.45	93	A Framework for practical teaching of IoT concepts in the Higher Education Institutions using custom Zigbee devices and the Zigbee2MQTT platform	Plamen Zahariev; Petar Stoilov	
11.45-12.00	28	Automation Methodology for Complete Electro-Thermal Simulation of a DMOS Chip Model	Luiza Dobre, Marius Purcar; Adrian Bojita; Daniel Tscharnuter; Manuel Petersmann	
12.00-12.15	64	Low-Power Cellular Telemetry Solution for Electric Vehicles	Vorobiov Mihail; Micu Dan, Alexis Polycarpou	

Session 2: IoT, Robotics, Gamification, Virtual Labs & PBL, CBL in Engineering Education				
Sessions' Chairs: Alexis Polycarpou & Jose Benlloch-Dualde				
Time	ID	Paper Title	Authors	Room
10.30-10.45	36	Boosting behavioural change and citizens' engagement in cities through technology: the DivAirCity project approach	Achilleas Sfetkos; Ioanna Pasiopoulou; Grigoris Papagiannis	Room 2
10.45-11.00	41	Integrating IoT and AI Technologies in Engineering Education: A Smart Home Control Case Study	Laszlo Rapolti; Rodica Holonec; Laura Grindei; Adrian Belean	
11.00-11.15	53	Designing Parametric Multiple-Choice Tests with Moodle and LaTeX for Engineering Education	Rafael Terris-Gallego; Fran Fabra; José Antonio López-Salcedo; Gonzalo Seco-Granados	
11.15-11.30	63	Experiences with multiple choice examinations in basic electric network and field theory	Gilbert De Mey	
11.30-11.45	91	Green wall implementation as an opportunity for distributed governance and social engagement: Experience with engineering students.	Vanessa Ortiz-García; Cinthya A. Sosa-Villalobos; Genoveva Domínguez-Sánchez; Araceli Rodríguez-Andrade; Elisa Peñalvo-López; Iván Valencia-Salazar	
11.45-12.00	11	Increasing Importance of the Technical-Common-Sense Metaphorical Reasoning in a Computer Based Learning Ecosystem	Emil Oanta	
12.00-12.15	77	Leveraging LLMs for Student Assessment Generation in Engineering Education: a Study on Context Requirements, Adoption and Challenges	Alexandru Lecu; Aurelia Ciupe; Adrian Groza; Bogdan Orza	
12.15-12.30	50	A Comparative Analysis of Circuit Simulation Software in the Context of Logic Design Education	Octavian Cret, Laura Darabant	
Session 2: Impact of technologies on students learning & assessment. Plagiarism. Ethics				
Session Chairs: Oguzhan Ceylan & Radu Munteanu				
Time	ID	Paper Title	Authors	Room
10.30-10.45	6	The Impact of Different Types of Educational Materials on the Educational Process Efficiency: Case Study	Tomáš Zeman; Jaromír Hrad; Jiří Holeček	Room 3
10.45-11.00	34	Engineering and Refugees: The Impact of YouTube on the Training and Entrepreneurship of Refugees Engineers in Brazil	Arthur Araújo; Roberto Pereira do Nascimento; Dante Augusto Couto Barone; Eulanda Maria Pedro Daniel; Henrique Lindemann	
11.00-11.15	35	Analysis of Software Skills in Electrical Engineering Through the Use of Paradidactic Materials	Arthur Araújo; Eulanda Maria Pedro Daniel; Roberto Pereira do Nascimento; Dante Augusto Couto Barone; Henrique Lindemann	
11.15-11.30	33	Soft Skills and Ethics: A Different Perspective on Engineering Competencies and the Future of AI Development	Arthur Araújo; Roberto Pereira do Nascimento; Dante Augusto Couto Barone; Henrique Lindemann	
Session 2: Development of Soft Skills in Engineering Education				
11.30-11.45	25	Reshaping English for Professional Academic Purposes in Engineering Education - Insights from Digital Multimodal Composing and Hybrid Genres	Sonia Munteanu	Room 3
11.45-12.00	88	Analysing Antenna Proximity Influence on the Human Body from an Educational Perspective	Claudia Constantinescu; Claudia Pacurar; Adina Giurgiuman; Sergiu Andreica; Marian Gliga; Laura Grindei; Laszlo Rapolti	
12.00-12.15	43	Learning About Sensors: Building Skills in Instrumentation and Data Acquisition for Electrical Engineering Students	Rodica Holonec; Laura Grindei; Laszlo Rapolti; Claudia Constantinescu	
12.15-12.30	97	Teacher and Student Soft Skills in Engineering Higher Education	Mihaela Cirlugea	
12.30-14.00	Lunch			
14.00-17.00	Visit to Bosch Research Centre / Guided city tour			
19.00-24.00	Banquet dinner Chios Social Lounge, Address: Parcul Central (Central Pak), Cluj-Napoca, <a href="https://www.chios.ro/">https://www.chios.ro/</a>			

**Session 3: Impact of technologies on students learning & assessment. Plagiarism. Ethics**

**Session Chairs: Olivier Bonneau & Jaromir Hrad**

Time	ID	Paper Title	Authors	Room
09.00-09.15	15	Why is ethics so important for artificial intelligence education?	Lenka Lhotská	Amphitheatre
09.15-09.30	56	Advancing AI Ethics in Engineering Curricula in Europe: A Case Study Approach	Lenka Lhotská; Roan van der Sluis; Rasma Pipike; Toms Kreicbergs Kreicbergs; Inga Lapina; Elina-Gaile Sarkane; David Macku	
09.30-09.45	8	The Design of a New Master Program in the Field of Mechatronics and Robotics Domain	Dorian Cojocaru; Cristina Pana; Ionut Cristian Resceanu; Florin Manta; Daniela Maria Patrascu Pana; Nicu-George Bizdoaca	
09.45-10.00	58	The Objectives and Strategy to Promote Erasmus+ Project	Anna Friesel; Jaromir Hrad	
10.00-10.15	29	Empowering Digitally Skilled Youth to Build IT Careers Using Emerging Technologies	Nina Bencheva; Georgi Georgiev; Liliya Ilieva; Nikolay Kostadinov	
10.15-10.30	57	Exploring Ethical Awareness and Learning Impact: A Study on the Use of ChatGPT and Generative AI in Higher Education	Masoumeh Jahani; Bidyut Baruah; Tony Ward	

**Session 3: Young researchers in Electrical and Information Engineering**

**Session Chairs: Plamen Zahariev & Levente Czumbil**

Time	ID	Paper Title	Authors	Room
09.00-09.15	96	Enhancing Synchronous Online Education: Overcoming Connectivity Challenges with Innovative Video-Conferencing Solutions	Teo-Christian Ion; Elvira Popescu	Room 1
09.15-09.30	27	Enhancing Engineering Education with Robotics: From Theory to Practice	Georgi Georgiev; Georgi Hristov; Plamen Zahariev; Diyana Kinaneva; Ventseslav Kolev; Radovesta Stewart	
09.30-09.45	85	Development of a Smart Traffic Light System: Educational Approaches and the Application of Advanced Technologies in Higher Education	Marian Gliga; Calin Munteanu; Sergiu Andreica; Adina Giurgiuman; Claudia Pacurar; Claudia Constantinescu; Lavinia Opris; Marius Botezatu; Razvan Cartas	
09.45-10.00	86	Design and Implementation of a Smart Parking System: An Educational Approach for Developing Technical Competencies in IoT and Urban Traffic Management	Marian Gliga; Calin Munteanu; Sergiu Andreica; Adina Giurgiuman; Claudia Pacurar; Claudia Constantinescu; Lavinia Opris; Marius Botezatu; Razvan Cartas	
10.00-10.15	95	Automating and Managing data using a QR scanner app with Firebase integration	Daniel IELCIU; Sergiu Andreica; Calin Munteanu; Marian Gliga	
10.15-10.30	84	Enhancing Engineering Education Through Practical Electromagnetic Field Measurements and Awareness of Human Exposure Risks Near High-Voltage Power Lines	Sergiu Andreica; Calin Munteanu; Marian Gliga; Adina Giurgiuman; Caludia Pacurar; Caludia Constantinescu; Daniel Ielciu	

**Session 3: Education & Research activities in cooperation with the industry**

**Session Chairs: Denisa Stet & Fernando Lopes**

Time	ID	Paper Title	Authors	Room
09.00-09.15	45	Lifelong Learning and the Path to Decarbonization: A European Collaborative Framework for Energy Professional Development	Denisa Stet; Andrei Ceclan; Levente Czumbil; Timea Farkas; Roxana Briscan; Stefan Cirstea	Room 2
09.15-09.30	82	Advancing Electrical Engineering Education with Digital Tools for Electromagnetic Characterization	Adrian Bojita; Alexandru-Dumitru Buburuzan; Ioan-Marius Purcar	
09.30-09.45	54	On some perspectives and reflections in changing the educational approach related to distributed generation in Romania	Andrei Ceclan ; Levente Czumbil; Timea Farkas; Denisa Stet; Stefan Cirstea; Andrei Ciucan; Dan Micu	
09.45-10.00	87	Integrating Virtual Laboratories in Medical Imaging Education: A Comparative Analysis	Angela Lungu; Alina Danciu; Simona Vlad; Ioana Radu; Anca Nicu; Titus Crisan	
10.00-10.15	61	Energy saving prototype in a smart-car system	Dan Iudean; Dávid Kulcsár; Radu Adrian Munteanu	
10.15-10.30	60	Spatial Analysis of Channel Occupancy in the 2.4 GHz ISM Band Using Mobile Spectrum Measurements	Robert Papa, Raul Plic	

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Session 3: Impact of technologies on students learning & assessment. Plagiarism. Ethics				
Session Chairs: Jean-Marc Thiriet & Laura Darabant				
Time	ID	Paper Title	Authors	Room
09.00-09.15	69	Enhancing Civil Engineering Education: Using Measurement Sensors to Teach Material and Structural Behaviour	Oana Eugenia Gherman; Bogdan Horea Hegheș; Horia Constantinescu	Room 3
09.15-09.30	73	Functional Simulation as Part of Biomedical Sensors Development and Learning Programs	Bogdan Tebrean; Calin Muresan; Titus Eduard Crisan	
09.30-09.45	42	The impact of schedule structure on engineering student performance	Cristina Vataavu; Laura Dărăbant; Ramona Simionescu	
09.45-10.00	78	Ethics and Accountability in the Digital Age	Tatjana Welzer; Marjan Družovec	
10.00-10.15	55	Economics in Electrical Machine Education: Evaluating Lifecycle Costs	Diana Artudean; Dan-Cristian Popa; Lorand Szabo	
10.15-10.30	72	Enhancing Electrical Engineering Education through Hands-On Learning in Collaborative Environments	Melisa Ferariu; Roxana-Valentina Briscan; Vlad Mihai; Marian Vinț ; Filip Anton	
10.30-11.00	<b>Coffee Break</b>			First floor
11.00-12.00	<b>Closing Ceremony</b>			Amphitheatre
12.00-13.30	<b>Lunch</b>			
14.00-19.00	<b>Trip to the Salt Mine Turda</b>			