

The XII edition of the International Workshop

Open Education & Science Practices 2025

Thursday, March 13, 2025, 11:00 -17:00 EET

Hybrid | ZOOM

K1 amphitheatre | UPT Conference Center

Date and Time:

Thursday, March 13, 2025, 11:00 - 17:00 EET (10:00 - 15:00 CET)

International Workshop Open Education & Science Practices 2025 UPT - Key Themes: Artificial Intelligence, Emerging Technologies, and the Transformation of Open Education

Politehnica University of Timișoara, through the Digital and Distance Education Department, in collaboration with the European University Alliance E³UDRES², the Horizon Europe project Ent-r-e-novators, and with the support of IEEE Romania, successfully hosted the 12th edition of the International Workshop Open Education & Science Practices on Thursday, March 13, 2025.

The hybrid event gathered over 500 participants, 466 online and 50 participants on-site, in the K1 Amphitheater of the UPT Conference Center. Sessions explored the impact of AI, VR, and blockchain on education and research, providing practical examples and case studies.

Under the theme "Challenges in Practices, Tools, and Methods of Open Science and Open Education," the workshop explored how open science and open educational resources (OER) are integrated into university practices, research projects, and general education. A particular emphasis was placed on the response of educational and research systems to the challenges posed by emerging technologies, such as artificial intelligence (AI), virtual reality (VR), and blockchain.

17 Exceptional Presentations by International Experts:

The event gathered 15 speakers from Romania, Germany, Austria, Sweden, Belgium, and the USA, and over 500 participants from 6 countries, who had the opportunity to interact with speakers, exchange ideas, ask dozens of questions, and collaborate with speakers during presentations.

The collaborative spirit was significantly amplified by the participation of esteemed experts from five distinct university alliances (*E³UDRES*, UNITE, UNITA, EU4DUALL, CLUSTER). This strategic presence facilitated a profound interconnection, nurturing the growth of robust collaborative networks and fostering exchange of knowledge and best practices across the open education, open science practices. Participants were given the opportunity to evaluate the event, and the feedback provided was overwhelmingly positive, as well as the many direct positive messages.

Among the initiatives highlighted in several presentations were the **E³UDRES² and Ent-r-e-novators projects**, with a series of detailed presentations, highlighting initiatives in promoting open science and innovation in open education.

Dr. **Anthony Camilleri** (Knowledge Innovation Center | KIC), for the first time in Timișoara, opened the event with an exceptional keynote presentation on the impact of AI in teaching and research, emphasizing the role of open education in creating ethical AI usage models. His presentation was applauded by the audience, both online and in the amphitheater, and gathered a series of questions.

Prof. Em. Dr. ing. Radu Vasiu (Politehnica University of Timișoara) presented the E³UDRES² and Ent-r-e-novators projects, highlighting the importance of open science and open education. Dr. ing. **Diana Andone** (UPT) offered valuable perspectives on using AI in open education, emphasizing the need for personalisation of open educational practices and awareness of ethical challenges, in a presentation that delighted the audience. Conf. Univ. Dr. **Gabriela Grosseck** (West University of Timișoara) presented on the use of artificial intelligence in student assessment, as well as the risks and ethical concerns. Prof. **Arnold Pears** (Royal Institute of Technology, Stockholm and IEEE Education) spoke about the concerns and implications of using AI in engineering education, and about the evolution of artificial intelligence. Dr. **Mark Frydenberg** (Bentley University, SUA), together with Dr. **Diana Andone** (UPT), presented the TalkTech project, which facilitated collaboration between students from Romania and the USA using AR and VR technologies. Dr. **Martin Ebner** (Graz University of Technology, Austria) presented the institutional integration and development of open educational resources (OER) at the TU Graz. Dr. **Vlad Mihăescu** (UPT) discussed the development of micro-credentials within the E³UDRES² Alliance. Dr. **Knut Blind** (Technical University of Berlin, Germania) spoke about the importance of blockchain and education in standardization in Europe, and Dr. Prof. **Cristian Gyozo – Haba** (Universitatea Tehnică "Gheorghe Asachi" Iași) explored the evolution of remote access laboratories. Lect. **Ann Reulens** (UCLL, Belgia) emphasized the importance of citizen involvement in citizen science and the implementation efforts for this purpose within the E³UDRES² - Ent-r-e-novators project. Dr. **Andrei Ternauciuc** (UPT) presented the evolution of the Moodle platform at UPT - CVUPT, the contributions of the team over the past 25 years, and the students' perspective on its co-development. Prof. **Anca Drăghici** (UPT) addressed the circular economy and education for sustainability. Dr. **Maria Boatcă** (UPT) presented a training framework for remote educators, managers, and workers, while Dr. **Cristian Țecu** (UPT) presented the use of "design thinking" to attract and engage students in technical faculties. At the end of the event, **Alina Ancuța**

Berbeneciuc (Colegiul Agricol și de Industrie Alimentară „Vasile Adamachi”, Iași) spoke about the application of artificial intelligence in ICT lessons in technical high schools.

For the first time, the 12th edition of the Open Education & Science Practices Workshop accepted papers will be published in open-access format by the Politehnica University Publishing House, contributing to the dissemination of knowledge and the advancement of the field.

Online participants received Open Education Workshop Participant Open Badges (digital open certificates), and those physically present received certificates of participation.

Information <https://elearning.upt.ro/en/conference/workshop-open-education-science-practices-2025/>

<https://www.entrenovators.eu/>

<https://eudres.eu/>

The international workshop is organized by the Politehnica University of Timișoara, through the Digital and Distance Education Department together with the Alliance of European Universities E³UDRES² and Ent-r-e-novators, with the support of IEEE Romania, within the Open Education Week 2024, supported by Open Education Global, annually since 2014, during the Open Education Week. <https://oeweek.oeglobal.org/activity/open-education-science-practices-2025/>
<https://events.vtools.ieee.org/m/474591>

Agenda Open Education & Science Practices 2025 Workshop

Ora / Time EET	Agenda
11:00	Opening Workshop <i>Introducing E³UDRES² & Ent-r-e-novators projects</i>
	Keynote speaker
11:15 - 12:00	Dr. Anthony Camilleri , Founder and Senior Partner at the Knowledge Innovation Centre KIC (On-site) <i>Open Models for Open Education - Creating Trust in a Multimodal World</i>
12:00 – 12:15	Dr. Arnold Pears , KTH Royal Institute of Technology Stockholm, Sweden (Online) <i>Does generativeAI change learning?</i>
12:15 – 12:30	Prof.Univ.Dr.Eng. Radu Vasii , Politehnica University of Timisoara Timisoara, Romania (On-site) <i>The Impact of E³UDRES² and Ent-r-e-novators project in Open Practices</i>
12:30 – 12:45	Dr. Diana Andone , Politehnica University of Timisoara Timisoara, Romania (On-site) <i>Artificial Intelligence in Open Education</i>
12:45 – 13:00	Dr. Gabriela Grosseck , West University of Timisoara Timisoara, Romania (On-site) <i>Using generative AI in digital assessment is fine, actually</i>
13:00 - 13:15	Senior Lect. Mark Frydenberg , Bentley University Waltham, MA, USA (Online) Dr. Diana Andone , Politehnica University of Timisoara Timisoara, Romania (On-site) <i>Developing changemakers - the TalkTech the open virtual reality project</i>
13:15 - 13:30	Dr. Martin Ebner , Head of Educational Technology Graz University of Technology TU Graz, Austria (Online) <i>Open Educational Resources (OER) at TU Graz - Institutional Integration and Development of OER</i>
13:30 - 14:00	Lunch break
14:00 - 14:15	Prof.Dr.Eng. Vlad Mihăescu , Politehnica University of Timisoara Timisoara, Romania (On-site) <i>Developing E³UDRES² micro-credentials for Open Education</i>

14:15 - 14:30	Dr. Diana Andone , Prof.Univ.Dr.Eng. Radu VasIU , Politehnica University of Timisoara Timisoara, Romania (On-site) <i>Artificial Intelligence in Open Science</i>
14:30 - 14:45	Prof. Cristian Gyozo - Haba , IEEE Romania & "Gheorghe Asachi" Technical University of Iasi Iasi, Romania (Online) <i>Remote Access Laboratories: Evolution, Benefits, and Future Trends</i>
14:45 - 15:00	Dr. Carmen Holotescu , "Ioan Slavici" University of Timisoara Timisoara, Romania (On-site) <i>Advancing Europe's Digital Transformation: Integrating Verifiable Credentials and Blockchain Services. UPT Contributions</i>
15:00 - 15:15	Prof. Knut Blind , Chair of Innovation Economics, Technical University of Berlin and Fraunhofer Institute for Systems and Innovation Research ISI Berlin, Germany (Online) <i>Education about Standardisation in the EU: Objectives, Initiatives & Challenges</i>
15:15 - 15:30	Lec.Dr. Andrei Ternauciu , Politehnica University of Timisoara Timisoara, Romania (On-site) <i>Developing for Moodle - the Student Perspective</i>
15:30 - 15:45	Lec. Ann Reulens , Expert in Supply Chain Management and Sustainability at UCLL Diepenbeek, Belgium (Online) <i>Fostering effective citizen science: key competencies and strategies for researcher engagement and societal impact</i>
15:45 - 16:00	Dr. Anca Drăghici , Politehnica University of Timisoara Timisoara, Romania (On-site) & Florica Manea , dr. Maria Elena Boatcă (Politehnica University of Timisoara, Timisoara Romania), Prof. Santiago Ferrándiz Bou (Universidad Politécnica de Valencia, Valencia Spain), Prof. Dana Perniu , Dr. Angela Repanovici (Transilvania University of Brasov, Brasov Romania) <i>Education for plastic in circular economy</i>
16:00 - 16:15	Dr. Maria Elena Boatcă , Politehnica University of Timisoara, Timisoara Romania (On-site) & Dr. Anca Drăghici , Dr. Sorin Suci , Dr. Caius Luminosu , Dr. Cornelia Baera (Politehnica University of Timisoara, Timisoara Romania) & Dr. Gabriela Mircea (West University of Timisoara, Timisoara Romania) <i>A framework for training remote educators, managers and workers: the VirtualEDU project</i>
16:15 - 16:30	Prof. Alina Ancuța Berbeneciuc , Agricultural and Food Industry College Vasile Adamachi Iasi Iași, Romania (Online) <i>Applying artificial intelligence in ICT lessons in technological secondary schools: Challenges and practical examples</i>

16:30 -
16:45

Assist. Dr. **Cristian Țecu**, Politehnica University of Timisoara | Timisoara, Romania (On-site)

Attracting the Future: Using Design Thinking to Inspire and Engage Candidates for the Faculty of Electronics and Telecommunications

