

2026 IEEE DEMOcon

Digital Education and MOOCs Conference

merged with EMOOCs – European MOOCs Stakeholders Summit

24 – 26 June 2026 | Politehnica University of Timișoara, Romania

DAY 1 Wednesday, 24 June 2026	
Time (EET)	Agenda
08:30	Registration Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
09:00 – 09:30	Plenary – Welcome & Opening Session Session Chair: Prof.Em.Dr.Eng. Radu Vasiu , 2026 IEEE DEMOcon General Chair, Director, Institute for Digital Transformation, Politehnica University Timisoara, Assoc.Prof.Dr.Eng. Florin Dragan , Rector, Politehnica University Timisoara, Prof.Dr. Arnold Pears , President of IEEE Education Society, KTH Royal Institute of Technology, Dr.Eng.Diana Andone , Vice-President of IEEE Education Society, Director of the Digital & Distance Education Department, Politehnica University Timisoara , Prof.Dr. Carlos Delgado Kloos , Steering Committee Co-Chair of IEEE DEMOcon, Universidad Carlos III de Madrid IEEE DEMOcon Meritous Service Award IEEE Education Society Student Travel Award
09:30 – 10:30	Keynote: Prof.Dr. Arnold Pears , President of IEEE Education Society, KTH Royal Institute of Technology AI Integration in Higher Education: A Roadmap and Discussion Location: Auditorium Moderator: Prof.Em.Dr.Eng. Radu Vasiu - 2026 IEEE DEMOcon General Chair, Director, Institute for Digital Transformation, Politehnica University Timisoara
10:30 – 11:00	Coffee Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
11:00 – 12:00	Parallel Workshops 2 rooms
12:00 – 13:00	Parallel Workshops 1 room / Exhibition demonstrations (sponsors' live demonstrations of engineering models and research)
12:00 – 13:00	Visiting UPT's Immersive Space UPT Library 4 th floor / Exhibition demonstrations (sponsors' live demonstrations of engineering models and research)
13:00 – 14:00	Lunch Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
14:00 – 15:30	Parallel Sessions – Session 1 2 rooms — see Session 1 pages for full paper list
15:30 – 16:00	Coffee Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
16:00 – 17:00	Parallel Sessions – Session 2 3 rooms — see Session 2 pages
17:00 – 18:30	Timișoara City Tour
18:30 – 22:00	Welcome Reception – Cocktail Location: Politehnica University Timisoara Conference Centre, Senate Hall, Rectorate Certificates from the DEMOcon Summer School 2026 - <i>Experiences and Developments in Digital Education Ecosystems: Harnessing MOOCs, AI, and Microcredentials</i>

DAY 2 | Thursday, 25 June 2026

Time (EET)	Agenda
08:30	Registration Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
09:00 – 10:30	Plenary – Keynote Ella Hamonic, Associate Programme Specialist in Learning Design and Innovation UNESCO Navigating AI's Frictions in Education Session Chair: Prof.Dr. Carlos Delgado Kloos, Steering Committee Co-Chair of IEEE DEMOcon, Universidad Carlos III de Madrid Location: Auditorium
10:30 – 11:00	Coffee Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
11:00 – 12:00	Parallel Sessions – Session 3a 2 rooms — see Session 3a pages
12:00 – 13:00	Parallel Sessions – Session 3b see Session 3b pages
13:00 – 14:00	Lunch Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
14:00 – 15:30	Parallel Sessions – Session 4 2 rooms — see Session 4 pages
15:30 – 16:00	Coffee Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
16:00 – 17:00	Parallel Sessions (Hybrid) – Session 5 see Session 5 pages
17:30 – 22:00	Gala Dinner – Recaș Winery Transport provided from UPT Conference Center

DAY 3 | Friday, 26 June 2026

Time (EET)	Agenda
08:30	Registration Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
09:00 – 09:30	Parallel Sessions (Hybrid) – Session 6 1 panel — see Session 6 pages
10:30 – 11:00	Coffee Break Location: Politehnica University Timisoara Conference Centre, Auditorium Hall
11:00 – 12:00	Plenary – Panel Digital Experiences in European University Alliances Session Chair: Dr.Eng.Diana Andone, Vice-President of IEEE Education Society, Director of the Digital & Distance Education Department, Politehnica University Timisoara Panelists: Dr.Eng.Diana Andone, Vice-President of IEEE Education Society, Director of the Digital & Distance Education Department, Politehnica University Timisoara Lect.Dr.Eng. Andrei Ternauciuc, Politehnica University Timisoara Prof.Dr. Marina Marchisio Conte, Università degli Studi di Torino, Prof.Dr. Carlos Delgado Kloos, Steering Committee Co-Chair of IEEE DEMOcon, Universidad Carlos III de Madrid, Prof.Dr. Jesus Alcober, UNITE! European University Alliance, Universitat Politècnica de Catalunya

12:00 – 12:30	Plenary – Closing Session Session Chair: Dr.Eng.Diana Andone , Vice-President of IEEE Education Society, Director of the Digital & Distance Education Department, Politehnica University Timisoara Best Paper Awards presented by Prof.Em.Dr.Eng. Radu Vasiu , 2026 IEEE DEMOcon General Chair, Director, Institute for Digital Transformation Politehnica University Timisoara, Prof.Dr. Carlos Delgado Kloos , Steering Committee Co-Chair of IEEE DEMOcon, Universidad Carlos III de Madrid Announcement of 2027 DEMOcon Conference
12:30-13:30	Lunch break
From 14:00	Trip to Transilvania ★ optional, fee applies Departs Friday at lunchtime – overnight in Sighișoara Return to Timișoara: Saturday late evening Meals and visits included in the price

Detailed Session Programs

Detailed paper listings: titles & presenters

DAY 1 | Wednesday, 24 June 2026 (Parallel Workshops | Politehnica University Timisoara Conference Centre, Rooms K1/K2 | 11:00 – 13:00)

Time (EET)	Presentation Title & Presenter
11:00 – 12:00	Beyond the Conference Paper: Editorial Perspectives on Publishing Engineering Education Research, Carina S. González-González , IEEE Senior Member, University of La Laguna Workshop Politehnica University Timisoara Conference Centre, Room K1
11:00 – 12:00	Navigating Institutional Evolution through ITAPs – The UPT Digital Transformation Journey Dr.Eng. Diana And one , Vice-President of IEEE Education Society, Director of the Digital & Distance Education Department, Politehnica University Timisoara Workshop Politehnica University Timisoara Conference Centre, Room K2
12:00 – 13:00	Building an Industry-Mentored Upskilling Pipeline with EECamp, Mr. Marcel Manofu , Up-Skill Engineering Education Association, Mr. Cosmin Moisa , AUMOVIO Workshop Politehnica University Timisoara Conference Centre, Room K1
12:00 – 13:00	Visiting UPT's Immersive Space , UPT Library 4th floor / Exhibition demonstrations (sponsors' live demonstrations of engineering models and research, Auditorium Hall)

DAY 1 | Wednesday, 24 June 2026, Session Chair: Prof.Dr. António Teixeira (Session 1 | Politehnica University Timisoara Conference Centre, Room K1 | 14:00 – 15:30)

Order	Presentation Title & Presenter
1	How to Make Interactive Video Work: Evidence-Based Design Guidelines from Large-Scale AI MOOCs Zuhra Sofyan Learning Analytics Oral
2	Mapping Student Growth from Individual to Team Dynamics Within the Korean-COIL WAVE Framework Gayathri Nadarajan Learning Analytics Oral
3	Subpopulation-Specific Modeling for Predicting Dropout and Success: Improving Accuracy and Fairness in Online Courses Pedro Manuel Moreno-Marcos Learning Analytics Oral
4	Steps Toward Curricular Development and Internationalization at the University of Oradea - EU GREEN MOOCs Codruta Calina Bendea Learning Analytics Oral
5	Enhancing Student Performance and Participation Using Gamification in TNE Contexts Nivedita Viswanathan Learning Analytics Oral

DAY 1 | Wednesday, 24 June 2026, Session Chair: Assoc.Prof.Dr. Vlad Mihaescu (Session 1 | Politehnica University Timisoara Conference Centre, Room K2 | 14:00 – 15:30)

Order	Presentation Title & Presenter
1	Stakeholder Perceptions of Micro-Credentials in Latin American Higher Education: A Computational Qualitative Analysis Claudia Camacho-Zuñiga Micro-credentials Oral

2	Enhancing Employability Through Digital Microcredentials: Lessons Learned from Latin America and the Caribbean Carlos Alario-Hoyos Micro-credentials Oral
3	Analysis of Online Tutorials for an Online Learning Platform- Eudres Alliance Case Ana Cainiceanu Micro-credentials Oral
4	A Self-Correcting Multi-Agent System for Designing Microcredential Specifications Rebiha Kemcha Microcredentials Oral
5	Piloting MOOC-Based Learning on Open Licensing, Open Education, Open Innovation, and Open Access & Open Science: A Multi-Cohort Experience Diana Andone; Vlad Mihaescu Industry Business Engagement Oral

DAY 1 | Wednesday, 24 June 2026, Session Chair: Assoc.Prof.Dr. Pedro Manuel Moreno Marcos (Session 2
| Politehnica University Timisoara Conference Centre, Room K1 | 16:00 – 17:00)

Order	Presentation Title & Presenter
1	Does Generative AI Reduce or Reproduce Educational Inequality? Cultural Capital and AI Use Across Different School Contexts Luiza Souza Rubim AI in Education Oral
2	ENGRAMMER: New Solutions to Leverage AI in the Classroom Jesus Marco de Lucas AI in Education Oral
3	Human Vs AI: Comparison of Human and AI-Based Students' Assessment for Enhancing Systemic Thinking and Better Designing a Business Model Carlos Hernández Alamillo AI in Education Oral

DAY 1 | Wednesday, 24 June 2026, Session Chair: Lect. Mark Frydenberg (Session 2 | Politehnica University
Timisoara Conference Centre, Room K2 | 16:00 – 17:00)

Order	Presentation Title & Presenter
1	Piloting AI-Enhanced WebXR Integration in Distance Education Kamran Mir Online (afternoon1) Virtual
2	Hybrid Blockchain Architecture for Credential Issuance and Verification in Digital Education Ecosystems Andrei Nicula Online Virtual
3	Balancing Automation and Agency: Evaluating AI-Powered Course Development Tools Alexandra Urban Online Virtual

DAY 2 | Thursday, 25 June 2026, Session Chair: Lect.Dr. Andrei Ternauciuc (Session 3a | Politehnica University
Timisoara Conference Centre, Room K1 | 11:00 – 12:00)

Order	Presentation Title & Presenter
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1	LLM-Assisted Development of AI Automated Written Assessment Systems for LLMs Using a Decoupled LTI-CGI Architecture Ignacio Despujol AI in Education (Experience) Oral
2	Framing GenAI in Higher Education. Narratives, Expectations, and Tensions Among University Students from the MENA Region Valentina Reda AI in Education (Experience) Oral
3	Teachers' Use of Artificial Intelligence Tools in Professional Practice Kamile Gudišauskienė AI in Education (Experience) Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Prof.Dr. Carlos Alario Hoyos (Session 3a | Politehnica University Timisoara Conference Centre, Room K2 | 11:00 – 12:00)

Order	Presentation Title & Presenter
1	The Effects of Interdisciplinary Blended Mobility on Student Development and Institutional Relations Gerry Stegeman WiP Short Oral
2	Learning Opportunities for Pollinator Biodiversity Monitoring Using Edge AI Technologies Antonio Garosi WiP Short Oral
3	Metadata as a Microservice - a Text-Based Metadata Generator Max Thomas WiP Short Oral
4	AI and MOOCs in Reverse Engineering - a Toy RC Car Case Study Corina Sosdean WiP Short Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Prof.Dr. Thomas Staubitz (Session 3b | Politehnica University Timisoara Conference Centre, Room K1 | 12:00 – 13:00)

Order	Presentation Title & Presenter
1	AI-Assisted User Interface Evaluation of MOOCs: Challenges and Directions Ciprian Orhei Green Skills Oral
2	Global E-Learning Initiative for Green Skills Development and Sustainable Behaviour Promotion Andra Diaconescu Green Skills Oral
3	The Green Transformation Educational Package Dan Lacrama Green Skills Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Assoc.Prof.Dr. Silviu Vert (Session 3b | Politehnica University Timisoara Conference Centre, Room K2 | 12:00 – 13:00)

Order	Presentation Title & Presenter
1	M²OOC: Mixed-Reality-Enhanced MOOCs for Digital Education Pak-Ming Fan Virtual and Mixed Reality Oral

2	Integrating AI-Generated 3D/360° Content in VR-Based Teaching: A MOOC-Ready Teacher Education Framework Avram Vasile-loan-Grigore Virtual and Mixed Reality Oral
3	Adaptive Online Instructional Methodologies Using Real-Time EEG Signals: Short Paper on Neurofeedback-Driven Framework for Personalized Learning in K-12 Digital Environment Rohini Thrimurthy Virtual and Mixed Reality Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Assoc.Prof.Dr. Pedro Manuel Moreno Marcos (Session 4 | Politehnica University Timisoara Conference Centre, Room K1 | 14:00 – 15:30)

Order	Presentation Title & Presenter
1	MOOCs for Open and Lifelong Digital Education: Evidence from the Edvance Digital Education Hub Marina Marchisio Conte Digital Platforms Oral
2	Mobile-First Gamified LMS Interfaces for Teacher Training in the Colombian Caribbean: Evidence from Barranquilla María Camila Herrera Brunal Digital Platforms Oral
3	Educational Platform for Practicing Dental X Ray Techniques Using Interactive Simulation Lucian Balan Digital Platforms Oral
4	Architecting a Kubernetes-Native Platform for on-Demand Coding Environments and Automated Assessment in Higher Education Luca Apahidean Digital Platforms Oral
5	Design and Implementation of Interactive Videos in Undergraduate Transnational Education Dimitrios Chiotis Digital Platforms Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Dr. Valentina Reda (Session 4 | Politehnica University Timisoara Conference Centre, Room K2 | 14:00 – 15:30)

Order	Presentation Title & Presenter
1	From Coursework to Working Systems: Experience with Learner-Driven Projects in Graduate Education Thomas Staubitz Student Projects Oral
2	Navigating Skills and Lifelong Learning in the AI Era: The Role of Micro-Credentials Chiara Finocchietti; Elisa Petrucci Microcredentials Oral
3	Revitalizing University Enrollment Through Student-Led Design Thinking: A Living Lab Experience Cristian Tecu Student Projects Oral
4	Purpose-Built Versus off-the-Shelf Take-Home Kits for Academic Projects on Electronic Circuits - a Case Study Marius Neag Student Projects Oral
5	Student Perceptions of Tablet-Based Teaching and Learning in TNE Undergraduate Mathematics Dimitrios Chiotis

Student Projects | Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Prof.Dr. Carmen Holotescu (Session 5 (Hybrid) | Politehnica University Timisoara Conference Centre, Room K1 | 16:00 – 17:00)

Order	Presentation Title & Presenter
1	The Use of GenAI in the Management of a Moodle-Based e-Learning Platform - an Administrators' Perspective Case Study Andrei Ternauciuc Teachers Training and Administrators Perspective Oral
2	AI Tools and Digital Learning Adoption Among Pre-University Teachers in Romania: An Exploratory Survey Lavinia Iloie Teachers Training and Administrators Perspective Oral
3	Assessing Teachers' Digital Education Training Needs in an IPA Project: Insights from the Kano Model in a Cross-Border Region Lavinia Iloie Teachers Training and Administrators Perspective Oral
4	Improving Cause-of-Death Certification in Portugal Through a nanoMOOC for Health Professionals João Paz Teachers Training and Administrators Perspective Oral

DAY 2 | Thursday, 25 June 2026, Session Chair: Assoc.Prof.Dr. Silviu Vert (Session 5 (Hybrid) | Politehnica University Timisoara Conference Centre, Room K2 | 16:00 – 17:00)

Order	Presentation Title & Presenter
1	Comparing Teachers' Fears and Expectations with Students' Practices and Wishes in Using AI Support for Online Learning Kamran Mir Online Virtual
2	Learn with AI, Test Without It: A Framework for High Assurance Assessment in the Age of Generative AI Kevin Matthe Caramancion Online Virtual

DAY 3 | Friday, 26 June 2026, Session Chair: Assoc.Prof.Dr. Muguras Mocofan (Session 6 (Hybrid) | Politehnica University Timisoara Conference Centre, Room K1 | 09:00 – 10:30)

Order	Presentation Title & Presenter
1	From Consumers to Creators: Evaluating Student-Led Virtual Reality Projects in a Global Collaboration Using the Cognitive Affective Model of Immersive Learning (CAMIL) Mark Frydenberg, Diana Andone Student Projects Oral
2	From Awareness to Evidence: Building an Online Training Program That Produces Audit-Ready Proof for TISAX (VDA ISA 6) Muguraş Mocofan Industry Business Engagement Oral
3	Innovating Social Entrepreneurship Training Through International MOOC Initiatives: Evidence from the DigiFunCollab Consortium Anca Draghici Industry Business Engagement Oral
4	This Short Paper Will Explore AI Agents as Administrative Assistants in eLearning Platform Management

	Stefania Trabucchi Industry Business Engagement Oral
5	Evaluating AI-Generated Multiple-Choice Assessments with LLM-as-a-Judge Erin Hoffman Industry Business Engagement Oral

DAY 3 Friday, 26 June 2026, Session Chair: Assoc.Prof.Dr. Vlad Mihaescu (Session 6 (Hybrid) Politehnica University Timisoara Conference Centre, Room K2 09:00 – 10:30)	
Order	Presentation Title & Presenter
1	Methodology and Resources to Teach OpenMP, MPI and CUDA C Based High Performance Computing Anugrah Jain Online (morning) Virtual
2	MOOC as a Tool for Specialization in Shallow Geothermal Energy: Skills Development and Training Across the EU Miguel A. Mateo Pla Online (morning) Virtual
3	AI-Supported Resource Discovery in Digital Education Ecosystems: The Metagora Service for European University Alliances Roberto Guarneros Angulo Online (morning) Virtual
4	Bridging Education and Practice: Micro-Credentials Within the Thai MOOC Ecosystem for Lifelong Learning in Thailand Jintavee Khlaisang Online (morning) Virtual
5	Driving Education 6.0: The ThaiMOOC Ecosystem as a Shared National Cloud Infrastructure for Lifelong Learning Thapanee Thammeter Online (morning) Virtual