

ICL2025 Special Session

Call for Papers

From Chalkboards to Chatbots: AI in Austrian Engineering Classrooms (C2C)

Overview

Artificial Intelligence is a game changer for engineering and general education which needs to arrive in every classroom. This session charts a course from traditional teaching methods to AI-driven innovation in Austrian technical vocational high schools. We explore the creation of a nationwide AI-based personalized learning support system, generating interactive content for CLIL materials for immersive engineering education and facing the ethical and societal challenges faced through this transformation. Additionally, we introduce learning concepts for topics ranging from critical media review based on machine learning based analysis of news media data to personalized stories reflecting students' approaches to sustainability and the sustainable development goals as defined by the United Nations. Since these projects have been mainly implemented by our students, they provide excellent examples for interconnecting project-based learning with future relevant topics and skills, learning the application of artificial intelligence algorithms along the way.

Join us for best practice examples to transform Austrian engineering classrooms into hubs of AI-enabled learning applying MOOCs and RAG AI systems with adapted system prompts and GUI framework which are intended to incorporate flipped classrooms and student-centered learning strategies enhance digital literacy in AI while providing awareness of the digital humanities.

Topics

- AI and its Use in Education and Training
- AI and Learning Analytics in Engineering Education
- Computer aided language learning (CALL)
- Digital Transition in Education
- Flipped classrooms
- Future of Education
- Ethics and Engineering Education
- New generation of engineering students
- Project based learning (PBL)
- Teaching best practices
- *Personalizing AI System for Teachers and Students*

- *RAG AI systems*
- *adapted system prompts*
- *Student-Centered Learning and AI*
- *AI and sustainability*
- *Flipped Classroom AI based Tools*
- *UNESCO AI Competency Framework*
- *AI Ethics and digital humanities*
- *Content Creation for CLIL*

Program Committee

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