

Call for Papers | Save the Date

STEM-Education in the Era of AI

*(STEM-Edu-AI)***Dates:** 8-10 March 2027**Venue:** University of Siegen, Campus Unteres Schloss, Siegen, Germany**Format:** In-person conference**Conference language:** English**Organizer:** Mathematics Education Research Group, University of Siegen**Conference participation:** Free of charge (except for the optional conference dinner)

Artificial intelligence is becoming increasingly important across education, including schools, higher education, and vocational education and training. At the same time, AI is raising fundamental questions about teaching, learning, assessment, professional practice, and educational innovation in STEM fields.

STEM-Education in the Era of AI is an international conference dedicated to the role of AI in STEM education. It aims to bring together researchers, teachers, teacher educators, university lecturers, policy actors, school administrators, EdTech professionals, industry representatives, and others interested in shaping the future of STEM education.

Conference Topics

Topic 1: Teaching with AI

This topic focuses on the use of AI by STEM teachers and university lecturers, for example in lesson planning, the development of teaching resources, and the reflection on teaching practice. It also addresses the integration of AI into classroom and course settings, including questions of instructional design and forms of instrumental orchestration. Another important aspect concerns assessment and evaluation with AI.

Topic 2: Learning with AI

This topic places students, and other learners at the centre. It asks how AI can support the development of STEM-related competences such as modelling, problem solving, logical reasoning, programming, and experimentation. It also addresses how learners use AI in STEM education and how AI may reshape classroom roles, participation, and learner agency.

Topic 3: Teaching and Learning about AI

This topic addresses learning about AI itself. The conference invites contributions that explore how STEM subjects can contribute to the development of AI literacy among students and other groups of people, and how this relates to established subject-specific and interdisciplinary concepts such as computational thinking.

Programme and Participation

The conference will feature two keynote lectures (*Prof. Dr. Manolis Mavrikis, University College London & Prof. Dr. Xiaomin Zhai, University of Georgia (US)*) and one plenary panel discussion. In addition, participants will be able to contribute actively to the conference programme through the following formats:

- Talk (20-minute presentation plus 5-minute discussion)
- Workshop (50 minutes)
- Poster
- Innovation Expo stand

The Innovation Expo is designed as an interactive space for schools, start-ups, researchers, and other innovators to present promising ideas, tools, and hands-on developments related to AI in STEM education.

Peer-reviewed Proceedings

For academic contribution formats including talks, workshops, and posters, submissions to the conference proceedings consist of full papers of 4–6 pages in the template provided on the conference website, regardless of presentation format. For Innovation Expo contributions, only a short abstract is required.

Preliminary Schedule

Monday, March 8, 2027

- **From 12:00 PM** – Registration
- **1:00 PM – 1:30 PM** – Opening Session
- **1:30 PM – 3:00 PM** – Keynote Lecture 1 & Discussion
- **3:00 PM – 3:30 PM** – Coffee Break
- **3:30 PM – 6:00 PM** – Talks & Workshops (Part 1)
- **From 6:00 PM** – Welcome Reception & Poster Session

Tuesday, March 9, 2027

- **9:00 AM – 10:30 AM** – Talks & Workshops (Part 2)
- **10:30 AM – 11:00 AM** – Coffee Break
- **11:00 AM – 12:30 PM** – Talks & Workshops (Part 3)
- **12:30 PM – 1:30 PM** – Lunch Break
- **1:30 PM – 3:00 PM** – Innovation Expo
- **3:00 PM – 4:30 PM** – Keynote Lecture 2 & Discussion
- **4:30 PM – 5:00 PM** – Coffee Break
- **5:00 PM – 6:30 PM** – Talks & Workshops (Part 4)
- **6:30 PM – 8:00 PM** – Optional: Guided City Tour (in English)
- **From 8:00 PM** – Conference Dinner

Wednesday, March 10, 2027

- **9:00 AM – 11:00 AM** – Talks & Workshops (Part 5)
- **11:00 AM – 11:30 AM** – Coffee Break
- **11:30 AM – 12:30 PM** – Plenary Panel Discussion
- **12:30 PM – 1:00 PM** – Closing Session

Important Dates

| Date | Milestone |
|-------------------|---|
| 15 June 2026 | Publication of the Call for Papers and opening of submissions and conference registration |
| 31 October 2026 | Submission deadline (free of charge) |
| 30 November 2026 | Notification of presentation acceptance and feedback to authors (Peer-review) |
| 15 January 2027 | Registration deadline (free of charge) |
| 8-10 March 2027 | Conference |
| 15 April 2027 | Submission of revised papers |
| Approx. June 2027 | Publication of the conference proceedings |

Stay Informed

Please save the date and join the interest list to receive updates on the deadlines, registration, keynote speakers, and further conference information.

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| Website (Registration & Submission) | https://www.uni-siegen.de/en/2027/stem-education-in-the-era-of-ai |
| Interest list | https://www.listserv.dfn.de/sympa/info/stem-edu-ai |
| Contact | stem-edu-ai@uni-siegen.de |

Members of the International Program Committee (IPC)

Prof. Dr. Jochen Kuhn, Physics Education, Ludwig-Maximilians-Universität München, Germany

Prof. Dr. Zsolt Lavicza, STEM-Education, Johannes Kepler University Linz, Austria

Prof. Dr. Nils Pancratz, Computer Science Education, University of Hildesheim, Germany

Prof. Dr. Birgit Pepin, Mathematics Education, Eindhoven University of Technology, Netherlands

Prof Dr. Linnéa Stenliden, Technology & Education, Linköping University, Sweden

Members of the Local Organizing Committee (LOC)

Dr. Frederik Dilling, University of Siegen, Germany

Dr. Judith Huget, University of Siegen, Germany

Birgitta Marx, University of Siegen, Germany

Prof. Dr. Daniel Thurm, University of Siegen, Germany

Prof. Dr. Ingo Witzke, University of Siegen, Germany