

Tuesday, October 28th

10:00-10:45 Session 1: Shuttle to Conference Venue

11:00-11:30 Session 2: Welcome to Conference

Welcome and introduction Dr. Ouassim Karrakchou (from International University of Rabat and Local Organising Committee Chair)

Prof Therese Keane (IPC chair)

Professor Don Passey (TC3 Chair)

CHAIR:

[Don Passey](#)

LOCATION: [TD306\(Keynote\)](#)

11:30-13:00 Session 3: Keynote #1: Understanding the Art of Learning: What Generative AI has yet to earn from AIED

Prof Kaśka Porayska-Pomsta As generative AI gains momentum in education, public discourse increasingly positions education as the system in need of urgent reform, while presenting AI as a mature and inevitable solution. This keynote challenges that narrative by drawing on over five decades of research in Artificial Intelligence in Education (AIED), arguing that many of today's headline concerns such as personalisation, scalability, and efficiency, are far from new, and that AIED's accumulated insights are being overlooked just when they are most needed. Rather than casting AI as a replacement for teachers or assessments, I will highlight AI's strength as a scientific instrument for investigating how people learn and the conditions under which learning thrives. This reframing invites deeper, often neglected questions, not only about what AI can do, but how its presence reshapes learners' motivation, attention, memory, and agency, and what it therefore ought to do in order to support education meaningfully. By revisiting AIED's core contributions – from instructional design and learner modelling to metacognition and socially grounded interaction – the talk offers a starting point for better understanding and anticipating what learners, educators, and systems should expect from AI. It explores the idea that the limitations of general-purpose AI systems are not only technical, but also conceptual and ethical: what we fail to ask about learning, we inevitably fail to design for. The keynote calls for a more reflective and historically informed conversation – one that positions AI first as a tool for deepening our understanding of learning and of the human capacities for education to cultivate, before it becomes a vehicle for desirable change.

CHAIR:

[Don Passey](#)

LOCATION: [TD306\(Keynote\)](#)

13:00-14:00 Lunch Break

14:00-15:00 Session 4A: AI & Personalised Learning - Full Papers

CHAIR:

[Mary Webb](#)

LOCATION: [TD306\(Keynote\)](#)

14:00 [Michael Weigend](#)

Exploring AI – A Case Study on Programming Neural Networks ([abstract](#))

14:30 [Jayanti Nayak](#), [Therese Keane](#) and [Milorad Cerovac](#)

A Comparative Analysis of Artificial Intelligence Education Frameworks: Global Perspectives Abstract ([abstract](#))

PRESENTER: [Jayanti Nayak](#)

14:00-15:00 Session 4B: Curriculum & Assessment Innovation - Full Papers

CHAIR:

[Mikko Ruohonen](#)

LOCATION: [TD302](#)

14:00 [Lars Demic](#), [Fatma Batur](#) and [Torsten Brinda](#)

What Shapes Fifth Graders' Conceptions About Artificial Intelligence? ([abstract](#))

PRESENTER: [Torsten Brinda](#)

14:30 [Konstantin Oltmann](#) and [Ralf Romeike](#)

Doing vs. Being Agile in K-12 Computer Science Education: Moving from Methodology to Mindset ([abstract](#))

PRESENTER: [Konstantin Oltmann](#)

14:00-15:30 Session 4C: Symposium

Reimagining the Learning Environment: Pedagogy, Assessment, and Human Dignity in the AI Era

Presenters:

- Yuko Murakami – *Humanities: What Should Be Nurtured in the Age of GAI*
- Said A.S. Yunus & Eliana El-Khoury – *Deepening Formative and Alternative Assessment of Human Skills in AI-Augmented Learning Environments*
- Mary Webb – *AI-Enhanced Formative Assessment in Higher Education: Opportunities and Challenges*

CHAIR:

[Toshinori Saito](#)

LOCATION: [TD303](#)

14:00 [Nicholas Mavengere](#), [Toshinori Saito](#), [Yuko Murakami](#), [Said Yunus](#), [Eliana El-Khoury](#) and [Mary Webb](#)

Reimagining the Learning Environment: Pedagogy, Assessment, and Human Dignity in the AI Era ([abstract](#))

PRESENTER: [Toshinori Saito](#)

15:00-15:15 Coffee Break

15:15-16:15 Session 5A: Educator Capability & Professional Learning - Full Papers

CHAIR:

[Stefan Pasterk](#)

LOCATION: [TD306\(Keynote\)](#)

15:15 [Eric Sanchez](#)

Design-Based Research in Educational Technology: Where Do We Stand After 25 Years? ([abstract](#))

15:45 [Christophe Reffay](#)

Do Higher Education Teachers Care About Ecology When They Teach Generative AI Tools Usage? ([abstract](#))

15:15-16:15 Session 5B: Emerging Technologies & Applications - Full Papers

CHAIR:

[Felix Ziemann](#)

LOCATION: [TD302](#)

15:15 [Javier Osorio](#) and [Arthur Tatnall](#)

The Role and Impact of Breakthrough Technologies in Contemporary Educational Research: An Analysis of Leading Journals and IFIP TC3's Official Journal ([abstract](#))

PRESENTER: [Javier Osorio](#)

15:45 [Futaba Yoneyma](#), [Miho Nagaki](#) and [Yoshiaki Matsuzawa](#)

ChatGPT: An AI-Powered Tutoring System for Introductory Programming That Avoids Giving Direct Solutions ([abstract](#))

PRESENTER: [Futaba Yoneyma](#)

16:30-17:15 Session 6: Shuttle from Conference Venue to Rabat

Wednesday, October 29th

08:00-08:45 Session 7: Shuttle to Conference Venue

09:00-10:30 Session 8: Keynote #2: If Learning is a Human Activity when does AI have a Role?

Prof Arnold Pears: Since the release of ChatGPT, one of the most highly visible Large Language Model based ChatBots, in 2022 research has been prolific in all aspects of the educational research sphere. Generative AI models are in wide use in many industries, and prevalent use among student populations worldwide is a fact that Higher Education Institutions must accept. Research on generative AI initially dealt with the ability of the models to respond to assessment items in a range of disciplines. LLM systems are (due to their structure and the nature of the training data) inherently highly suited to formulating responses to many assessment questions, be they computer programming code, image generation, music, or more general purpose text. It became clear that these types of tools can generate very good responses to many assessment items, including examinations which are heavily based on recall of information. This is not surprising considering that the tools are trained on precisely the data that assessment items are asking to be recalled. There is also a growing literature on the use of generative AI in teaching and learning situations, ranging from using the tools to write assignment solutions to potential use as an interactive study partner. Use of variants of LLM trained on special purpose data-sets and integrated into other systems and tools have rapidly infiltrated all elements of academic work from teaching and learning to research. Generative AI tools are readily available to automate large components of data analysis (both qualitative and quantitative) as well as Grant Writing, academic article writing, and creating of social media and other types of communication. Indeed, academic staff are also using AI to automate aspects of the assessment process, provide automated tutoring to students, and to generate material for use in teaching. In this talk I will argue that learning, and indeed teaching, should be intensely human activities in order for them to retain their social purpose and desired outcomes. Abdication of cognition to these powerful tools is a considerable risk facing our profession, and it is vital that we start to ask serious questions about when and how these tools are appropriate in the context of the academy.

CHAIR:

[Therese Keane](#)

LOCATION: [TD306\(Keynote\)](#)

10:30-11:00 Morning Coffee Break

11:00-12:00 Session 9A: Equity, Access & Inclusion - Full Papers

CHAIR:

[Andreas Schwill](#)

LOCATION: [TD306\(Keynote\)](#)

11:00 [Torsten Brinda](#), [Dieter Engbring](#), [Ulrik Schroeder](#), [Carsten Schulte](#), [Marco Thomas](#), [Nadine Bergner](#) and [Ira Diethelm](#)

Open Educational Resources for Teaching Computer Science Pedagogy to Secondary School Computer Science Teachers ([abstract](#))

PRESENTER: [Torsten Brinda](#)

11:30 [Lana Issa](#) and [Ralf Romeike](#)

AI Transparency and Explainability From Computing Education Perspective ([abstract](#))

PRESENTER: [Ralf Romeike](#)

11:00-12:00 Session 9B: AI & Personalised Learning - Full Papers

CHAIR:

[Michael Weigend](#)

LOCATION: [TD302](#)

11:00 [Atsushi Hikita](#), [Tomohiro Inagaki](#) and [Emi Nagasawa](#)

Media Literacy Learning and Learner Attitude Formation Using a Social Media Simulator 2: Investigation of Indicators of Attitude Formation and Trial of a Simplified Simulator ([abstract](#))

PRESENTER: [Atsushi Hikita](#)

11:30 [Andreas Bollin](#), [Nina Angela Lobnig](#), [Stefan Pasterk](#) and [Markus Wieser](#)

Making Computer Science Count: Curriculum Implementation and University Enrollment Across Europe ([abstract](#))

PRESENTER: [Andreas Bollin](#)

12:00-13:00 Session 10A: Curriculum & Assessment Innovation - Full Papers

CHAIR:

[Christophe Reffay](#)

LOCATION: [TD306\(Keynote\)](#)

12:00 [Stefan Pasterk](#), [Corinna Mößlacher](#), [Katharina Brugger](#) and [Andreas Bollin](#)

A Competency Model for an Informatics Lab ([abstract](#))

PRESENTER: [Stefan Pasterk](#)

12:30 [Hasan Selcuk](#), [Miroslava Cernochova](#), [Tomas Jerabek](#), [Anat Cohen](#), [Guy Cohen](#), [Adi Yaakov Azaria](#), and [Patrik Vostinar](#)

Teacher Education for the AI Era: A Cross-National Study of Student Teachers' AI Literacy in Latvia, Czechia, Israel, and Slovakia ([abstract](#))

PRESENTER: [Miroslava Cernochova](#)

12:00-13:00 Session 10B: Emerging Technologies & Applications - Full Papers

CHAIR:

[Eric Sanchez](#)

LOCATION: [TD302](#)

12:00 [Nina Angela Lobnig](#) and [Andreas Bollin](#)

Does the Story Matter? A Case Study on Storytelling and SQL Learning ([abstract](#))

PRESENTER: [Nina Angela Lobnig](#)

12:30 [Ralf Romeike](#) and [Jan Schlenzka](#)

From Theory to Simulation: Computational Modeling in Science Education ([abstract](#))

PRESENTER: [Ralf Romeike](#)

13:00-14:00 Lunch Break

14:00-15:00 Session 11A: AI & Personalised Learning - Full Paper

CHAIR:

[Torsten Brinda](#)

LOCATION: [TD306\(Keynote\)](#)

14:00 [Khalil Moutafatin](#), [Majdoulayne Hanifi](#) and [Mohamed Nabil Saidi](#)

Mapping Meaning at Scale: A Comparative Study of Semantic Alignment in Modern NLP Models BERT, SMITH, BigBird and GPT-3 ([abstract](#))

PRESENTER: [Khalil Moutafatin](#)

14:00-15:00 Session 11B: Short Papers and Presentations

CHAIR:

[Toshinori Saito](#)

LOCATION: [TD302](#)

14:00 [Seiichi Tani](#), [Kei Uehara](#), [Hiroyasu Kakuda](#), [Katsuhiko Kakehi](#), [Naoko Takahashi](#), [Takeo Tatsumi](#), [Yoshiaki Nakano](#), [Yasuichi Nakayama](#), [Tomohiro Nishida](#), [Kenichi Hagihara](#), [Hirokazu Bando](#) and [Yutaka Yasuda](#)

Mock Examinations in Informatics as a Foundation for Assessment Design in Japanese University Admissions ([abstract](#))

PRESENTER: [Seiichi Tani](#)

14:20 [Léa Richez](#) and [André Tricot](#)

Towards Inclusive Programming Education: Protocol for an Online Study on Hybrid Coding Interface ([abstract](#))

PRESENTER: [Léa Richez](#)

14:00-16:15 Session 11C: Doctorial Consortium

CHAIR:

[Javier Osorio](#)

LOCATION: [TD303](#)

15:00-15:15 Afternoon Coffee Break

15:15-16:15 Session 12A: Short Papers and Presentations

Emerging Technologies & Applications

CHAIR:

[Kalaš Ivan](#)

LOCATION: [TD306\(Keynote\)](#)

15:15 [Serkan Ucan](#), [Mary Webb](#) and [Arthur Galamba](#)

Recognising Need, Requesting Support: GenAI-Supported Socially-shared Regulation in Online Collaborative STEM Inquiry Learning ([abstract](#))

PRESENTER: [Mary Webb](#)

15:35 [Mary Webb](#) and [Matt Bower](#)

Artificial Intelligence (AI) Literacy for Teaching and Learning: Outcomes from EDUsummIT2025 ([abstract](#))

PRESENTER: [Mary Webb](#)

15:55 [Said Yunus](#), [Sharifa Juma](#), [Maryam Ismail](#), [Aziza Hussein](#), [Ali Abdulla](#) and [Siti Abdalla](#)

Bridging Foundational Gaps Through Digital Inclusion: Lessons From Bububu Primary Schools in Zanzibar ([abstract](#))

PRESENTER: [Said Yunus](#)

15:15-16:15 Session 12B: Emerging Technologies & Applications - Full Papers

CHAIR:

[Andreas Bollin](#)

LOCATION: [TD302](#)

15:15 [Barbora Stenová](#) and [Karolina Miková](#)

**Students' Preconceptions About Sensor-based Communication Technologies,
Aged 10-14 Years. ([abstract](#))**

PRESENTER: [Barbora Stenová](#)

15:45 [Miho Nagaki](#), [Ayuka Oishi](#), [Futaba Yoneyama](#) and [Yoshiaki Matsuzawa](#)

**An Attendance Management System Using Front and Rear Camera Capture
to Encourage Student Engagement in University Lectures ([abstract](#))**

PRESENTER: [Miho Nagaki](#)

16:30-17:15 Session 13: Shuttle from Conference Venue to Rabat

Thursday, October 30th

08:00-08:45 Session 14: Shuttle to Conference Venue

09:00-10:30 Session 15: Keynote #3: Computer Science Education in Latin America: Breaking Myths, Building Bridges

Prof. Ernesto Cuadros-Vargas: Latin America remains one of computing education's most overlooked regions—a land of untapped potential and unexpected innovations. This keynote demystifies CS education in Peru, Colombia, and Brazil, revealing how these countries tackle universal challenges with locally tailored solutions. In Peru, grassroots advocacy and accreditation reforms clash with infrastructure gaps, yet pioneering universities drive change. Colombia blends K-12 CS integration with bold university-industry partnerships, while Brazil leverages its research muscle to align curricula with global standards—yet all three face stark inequities between urban and rural access. Beyond problems, the region offers lessons: agile policy experiments, hybrid pedagogies for resource-limited settings, and a culture of collaboration over competition. The talk closes with a call to action—for research partnerships, faculty exchanges, and a rethink of what "global" CS education truly means.

CHAIR:

[Ouassim Karrakchou](#)

LOCATION: [TD306\(Keynote\)](#)

10:30-11:00 Morning Coffee Break

11:00-12:00 Session 16A: Curriculum & Assessment Innovation - Full Papers

CHAIR:

[Ralf Romeike](#)

LOCATION: [TD306\(Keynote\)](#)

11:00 [Felix Ziemann](#) and [Torsten Brinda](#)

Everyday Life Contexts for Interdisciplinary Teaching of CS-related Concepts in Primary Schools ([abstract](#))

PRESENTER: [Felix Ziemann](#)

11:30 [Minami Niwa](#) and [Yoshiaki Matsuzawa](#)

A Trial Workshop Towards Understanding Value Exchange within Ecosystems for Information System Design ([abstract](#))

PRESENTER: [Minami Niwa](#)

11:00-12:00 Session 16B: Publishing - Post Conference Book and Special Issue - Education and Information Technologies

Don Passey (Lead Editor Post Conference Book) and Katherine Moretti (Springer Editor) - Special Issue of Education and Information Technologies.

CHAIR:

[Therese Keane](#)

LOCATION: [TD302](#)

12:00-13:00 Session 17A: Educator Capability & Professional Learning - Full Papers

CHAIR:

[Yoshiaki Matsuzawa](#)

LOCATION: [TD306\(Keynote\)](#)

12:00 [Paolo Ciancarini](#), [Marcello Missiroli](#) and [Giancarlo Succi](#)

Reframing Informatics Education Through the Lenses of AI: A Multi-Perspective Exploration ([abstract](#))

PRESENTER: [Marcello Missiroli](#)

12:30 [Markus Wieser](#) and [Andreas Bollin](#)
""Looping the if" - The Importance of the Order of Programming Concepts Using the Example of If-Statements and Conditional Loops ([abstract](#))
PRESENTER: [Markus Wieser](#)

12:00-13:00 Session 17B: Short Papers and Presentations

CHAIR:

[Miroslava Cernochova](#)

LOCATION: [TD302](#)

12:00 [Mohamed Nuh](#) and [Mikko Ruuhonen](#)
Challenges in E-Learning for E-government implementation in Post-Conflict Context- Leveraging Learning Passport Platform in Somalia ([abstract](#))
PRESENTER: [Mikko Ruuhonen](#)

12:20 [Camille Miele](#) and [Louis Bourgaux](#)
How to Teach AI while AI is Evolving? ([abstract](#))
PRESENTER: [Camille Miele](#)

12:40 [Eleanor Overland](#)
Evaluating AI Tools: A Framework for Teachers and School Leaders ([abstract](#))

13:00-14:00 Lunch Break

14:00-15:30 Session 18A: Symposium

AI and the Future of Professions: Bridging Industry Demands and Human-Centred Curriculum Design

Presenters:

- Jaana Holvikivi – *Professional Skills in the ICT Field: Changes in the Past and Future*
- Marie Collins – *Human Skills and Generative AI in Education: An Irish Perspective*
- Atsushi Hikita – *Elements for Developing AI Literacy*
- Daryl Hepting – *Human Agency and the “Why”: Reimagining the CS Curriculum with CS2023*

CHAIR:

[Toshinori Saito](#)

LOCATION: [TD302](#)

14:00 [Toshinori Saito](#), [Nicholas Mavengere](#), [Jaana Holvikivi](#), [Marie Collins](#), [Atsushi Hikita](#) and [Daryl Hepting](#)
AI and the Future of Professions: Bridging Industry Demands and Human-Centred Curriculum Design ([abstract](#))
PRESENTER: [Toshinori Saito](#)

14:00-15:00 Session 18B: Emerging Technologies & Applications - Full Papers

CHAIR:

[William Keane](#)

LOCATION: [TD306\(Keynote\)](#)

14:00 [Kathleen Plötner](#) and [Axel Wiepke](#)

**Analysing Spatial Presence in Virtual Reality Through Video Triangulation:
A Qualitative Study in Foreign Language Teacher Education ([abstract](#))**

PRESENTER: [Axel Wiepke](#)

14:30 [Ivan Kalas](#) and [Maria Cujdikova](#)

Structural Thinking in Primary Robotics ([abstract](#))

PRESENTER: [Ivan Kalas](#)

15:00-15:15 Afternoon Coffee Break

15:30-17:30 Social Event

19:00-22:00 Dinner

Friday, October 31st

View this program: [with abstractsession overviewtalk overview](#)

08:00-08:45 Session 19: Shuttle to Conference Venue

09:00-10:00 Session 20: Keynote #4 - Morocco - TBA

CHAIR:

[Javier Osorio](#)

LOCATION: [TD306\(Keynote\)](#)

10:00-10:15 Coffee Break

10:15-11:00 Session 21A: WG Meeting 3.1

CHAIR:

[Torsten Brinda](#)

LOCATION: [TD306\(Keynote\)](#)

10:15-11:00 Session 21B: WG Meeting 3.4

CHAIR:

[Toshinori Saito](#)

LOCATION: [TD302](#)

11:00-11:45 Session 22A: WG Meeting 3.3

CHAIR:

[Therese Keane](#)

LOCATION: [TD306\(Keynote\)](#)

11:00-11:45 Session 22B: WG Meeting 3.7

CHAIR:

[Javier Osorio](#)

LOCATION: [TD302](#)

12:15-13:00 Session 23: WG Meeting 3.9

CHAIR:

[Mary Webb](#)

LOCATION: [TD306\(Keynote\)](#)

13:00-13:15 Session 24: Closing Service

CHAIR:

[Don Passey](#)

LOCATION: [TD306\(Keynote\)](#)

13:15-13:45 Lunch Break

14:00-14:45 Session 25: Shuttle from Conference Venue to Rabat