



**18TH INTERNATIONAL CONFERENCE OF
EDUCATION,
RESEARCH AND
INNOVATION**

A banner image showing a low-angle view of a modern building's glass and steel structure, with a blue sky and green trees visible in the background.

**CONFERENCE
PROCEEDINGS**

10-12 NOVEMBER 2025
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Seville, Spain

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Preface

The ICERI2025 Conference Proceedings include the papers accepted and presented at the 18th annual International Conference of Education, Research and Innovation (ICERI2025).

The conference topics were primarily focused on new research projects and innovations in the field of education; specifically: Education: New Trends and Experiences, Pedagogical Methods and Innovations, Teacher Training and Educational Management, Quality in Education. Inclusive Learning, Special Education, and Technology in Teaching and Learning.

The conference was held in Seville, Spain, from the 10th to the 12th of November 2025. Pre-conference workshops were delivered on the 9th of November. Over 800 professionals were in attendance and took advantage of the opportunity to gain knowledge about the latest projects and innovations in education. The conference programme was designed to offer a range of activities, including varied oral and poster sessions, interactive workshops, and inspiring keynote speeches by distinguished international figures, which remain available in the IATED Talks (iated.org/talks/).

The ICERI2025 International Programme Committee was made up of lecturers and researchers from across the world. A blind peer review process was followed to ensure the quality of the final publication. During this process, the following criteria were evaluated: content quality, relevance to the field, clarity of structure, and originality.

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Thank you again to all delegates and participants who made ICERI2025 possible. Your dedication, enthusiasm, and hard work are constantly improving and shaping the future of education.

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ICERI2025 Keynote Speakers

Amy Smith – Massachusetts Institute of Technology (MIT), United States



Keynote speech:

Is Human-Centered Design becoming less Human?

Human-centered design (HCD), the practice of putting the user's experience at the center of the design process, was popularized in the 1990's and moved into the mainstream in the following decades. It is generally considered the gold standard for user participation in design, but a deeper look at participation raises some questions about ways to enrich user engagement that takes greater advantage of their knowledge and creativity and gives them a greater role in decision-making and direction-setting. While a wide variety of tools and techniques have been developed to get user input to inform the HCD process, the degree of participation of these users can vary significantly, ranging from simple feedback sessions to interactive focus groups to activities that involve users in different parts of the design process. Recent advances in artificial intelligence (AI) are working on creating large language models (LLM) simulations to create personas for human subject research and applying them in human-centered design. While this may facilitate the focus on the user experience in the design of the product, is it at the expense of user engagement in the process?

In this talk, Ms. Smith will present a framework for thinking about participation in the context of design, looking at HCD and other user-focused design paradigms. She will highlight the tangible and intangible benefits of engaging users in the design process, drawing on research and experiences from MIT D-Lab. Finally, she will engage the audience in small group discussions around the role of AI in design to lay the groundwork for further conversations throughout the conference.

Biography:

Amy Smith is the founding director of MIT D-Lab and senior lecturer in Mechanical Engineering at MIT. She served in the US Peace Corps in Botswana and has done field work in Uganda, Tanzania, Senegal, South Africa, Nepal, Haiti, Honduras, Guatemala, Colombia, Mali, South Sudan, Ghana and Zambia. She won the BF Goodrich Collegiate Inventor's Award and the Lemelson-MIT Student Prize for Invention for her work creating technologies to improve the lives of people living in low-resource environments. In 2002, she founded MIT D-Lab and began teaching a series of courses and field trips that focus on the development, design and dissemination of appropriate technologies for international development. She also founded the IDEAS competition, the International Development Design Summit and the International Development Innovation Network. She was selected as a MacArthur Fellow in 2004 and was named one of Time Magazine's 100 Most Influential People in 2010 for her work to promote local innovation. She currently co-leads the Humanitarian Innovation Initiative at D-Lab, advancing participation and participatory design among people who have been forcibly displaced by conflict. Her design and research interests are in local innovation ecosystems, water testing, treatment and storage; agricultural processing and alternative energy.

C. Edward Watson – American Association of Colleges and Universities, United States



Keynote speech:

Embracing AI as Essential Learning: Preparing Students for Life Beyond College

Generative AI tools have had an astonishingly quick impact on the ways we learn, work, think, and create. While higher education's initial response was to develop strategies to diminish AI's influence in the classroom, it is now clear that AI competencies and literacies must be embraced as essential learning for most colleges and universities. These responses and realities create a challenging tension that higher education must work to resolve. Drawing from his new book, *Teaching with AI: A Practical Guide to a New Era of Human Learning* (Johns Hopkins University Press, 2024), Dr. C. Edward Watson will detail the challenges and opportunities that have emerged for higher education, especially in terms of pedagogical practice and student learning. The core focus of this keynote will be on concrete approaches and strategies higher education can adopt, both within the classroom and across larger curricular structures, to best prepare students for the life that awaits them after graduation. It will also detail the pedagogical possibilities regarding how AI can have a positive impact on student learning.

Biography:

C. Edward Watson, Ph.D., is the Vice President for Digital Innovation at the American Association of Colleges and Universities (AAC&U). He is also the founding director of AAC&U's Institute on AI, Pedagogy, and the Curriculum. Prior to joining AAC&U, Dr. Watson was the Director of the Center for Teaching and Learning at the University of Georgia (UGA) where he led university efforts associated with faculty development, TA development, learning technologies, and the Scholarship of Teaching and Learning. He continues to serve as a Fellow in the Louise McBee Institute of Higher Education at UGA and recently stepped down after more than a decade as the Executive Editor of the *International Journal of Teaching and Learning in Higher Education*. His most recent book is *Teaching with AI: A Practical Guide to a New Era of Human Learning* (Johns Hopkins University Press, 2024). Dr. Watson has been quoted in the *New York Times*, *Chronicle of Higher Education*, *Inside Higher Ed*, *Campus Technology*, *EdSurge*, *EdTech*, *Consumer Reports*, *UK Financial Times*, and *University Business Magazine* and by the AP, CNN and NPR regarding current teaching and learning issues and trends in higher education.

Conference Tracks & Sessions

The ICERI2025 conference program is available online at <https://iased.org/ICERI2025>

ORAL SESSIONS MONDAY

Flipped and Blended Learning
Rethinking Assessment in the Age of AI
Employability Trends and Challenges
Teacher Well-being and Motivation
Design Thinking
Digital and AI Skills for Teachers
Internships and Work-Integrated Learning
Student Wellbeing (1)
STEM Education (1)
Architecture Education
AI in Higher Education
Assessment and Evaluation
Entrepreneur-ship Education
Pre-service Teacher Training (1)
Creativity & Critical Thinking
ICT Skills for Teachers
Workplace and Work-Integrated Learning
Diversity and Inclusion (1)
STEM Education (2)
Sustainability in Architecture and Engineering
Virtual and Augmented Reality
Technology-Enhanced Learning
International Students and Exchange Experiences
Professional Development of Teachers
Digital Transformation of Education
Educational Leadership and Management
Mentoring and Tutoring
Arts and Social Sciences in the Age of AI
Diversity in STEM
Sustainability in Vocational and Higher Education
Immersive Reality
Research in the Age of AI
Communities of Practice
Pre-service Teacher Training (2)
Pedagogical Innovations
AI Literacy for Teachers
University-Industry Cooperation
Diversity and Inclusion (2)
STEM Education (3)
Sustainability in Engineering Education

POSTER SESSIONS MONDAY

Emerging Technologies in Education
Educational Trends and Experiences

ORAL SESSIONS TUESDAY

Hybrid and Online Learning
Personalized Learning (1)
Digital Literacy
Educational Policies and Management
Collaborative Online International Learning
Gender Equality
STEM Teachers
Special Education (1)
Elderly Education
AI in Academic Writing
Risks and Challenges of AI
Personalized Learning (2)
Educational Robots
Teacher Training
Problem-Based and Challenge-Based Learning
Student Engagement
Mathematics Teaching
Special Education (2)
Early Childhood Education
AI for Language Learning
Student and Teacher Perspectives on AI
21st Century Skills
Coding and Computational Thinking
Educational Management
Simulation-Based Learning
Student Emotional Wellbeing and Mental Health
Mathematics Education
Experiences in Primary and Secondary Education
Teachers and Parents in Early Childhood Education
Teaching in Intercultural and Multilingual Classrooms
AI for Assessment and Feedback
Creativity and Design Thinking
Technology Trends in Education
Teacher Training and Teaching Competencies
Digital Games
Student Support and Dropout Prevention
Gamification in Higher Education
Special Education Teachers
Health and Life Sciences Education
Curriculum Design and Accreditation Experiences
Research and Reflections on AI in Education
Critical Thinking
Computer Science Education
Research Policies and Management
Collaborative and Team-Based Learning
Student Wellbeing (2)
Science Engagement
Assistive Technologies
Gender and Equality in Education
English as a Foreign Language

POSTER SESSIONS TUESDAY

Pedagogical Innovations in Education
Challenges in Education and Research

VIRTUAL SESSIONS

DIGITAL TRANSFORMATION OF EDUCATION

21st Century Skills
Data Science & AI in Education
Digital Technologies and Resources for Distance Learning
Digital Transformation
Educational Programming & Robotics

DIGITAL & DISTANCE LEARNING

Blended, Hybrid & Mobile Learning
e-Learning Experiences
Learning Analytics & Educational Data Mining
Learning Management Systems & Virtual Learning Environments

INNOVATIVE EDUCATIONAL TECHNOLOGIES

Chatbots & Robots
Generative AI in Education
Technology Enhanced Learning
Videos and Social Media in Education
Virtual & Augmented Reality

ACTIVE & STUDENT-CENTERED LEARNING

Active & Experiential Learning
Developing Soft and Transversal Skills
Gamification & Game-based Learning
Pedagogical Innovations
Problem & Project-Based Learning

ASSESSMENT, MENTORING & STUDENT SUPPORT

Assessment & Evaluation
Mentoring & Tutoring
Student Support & Motivation
Student Wellbeing

TEACHER TRAINING & ED. MANAGEMENT

Educational Management
ICT & Digital Skills
Professional Development of Teachers
Teacher Training and Support

QUALITY & IMPACT OF EDUCATION

Experiences and Challenges in Curriculum Design
Links between Education and Research
Mobility & International Projects
Quality in Education
Sustainability & Social Impact of Education
University-Industry Collaboration

EDUCATIONAL STAGES & LIFE-LONG LEARNING

From Pre-school to Secondary Education
Higher Education & Labour Market Transition
Vocational Training
Developing Entrepreneurship in Education
Life-long & Workplace Learning
Non-Formal and Informal Learning

MULTICULTURALITY & INCLUSION

Diversity Issues
Inclusive Education
Multicultural Education
Special Educational Needs

STEM EDUCATION

Computer Science Education
Engineering Education
STEM Experiences

LANGUAGE LEARNING AND TEACHING

Foreign Languages
Language Learning & Translation Studies
New Technologies in Language Learning

DISCIPLINE-ORIENTED SESSIONS

Architecture & Interior Design Education
Libraries and Museums as Learning Spaces
Health Sciences Education