



**17TH INTERNATIONAL CONFERENCE OF
EDUCATION,
RESEARCH AND
INNOVATION**

A photograph of a modern building's interior, showing a complex, white, geometric ceiling structure with a grid of beams and recessed lighting. The sky and some greenery are visible through the structure.

**CONFERENCE
PROCEEDINGS**

11-13 NOVEMBER 2024
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Seville, Spain

Edited by

Luis Gómez Chova, *University of Valencia, Spain*
Chelo González Martínez, *Polytechnic University of Valencia, Spain*
Joanna Lees, *CEU Cardinal Herrera University, Spain*

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Preface

The ICERI2024 Conference Proceedings contain the papers presented at the 17th annual International Conference of Education, Research and Innovation. This conference was held in Seville from the 11th to 13th of November 2024.

This annual conference was attended by educators, researchers and technologists from more than 70 countries with the purpose of networking with other professionals and sharing their knowledge about education, pedagogical technologies, and educational innovations. To fulfil this goal, networking activities, plenary sessions, parallel thematic sessions, and networking activities and workshops were offered. Keynote speeches were delivered by global educational experts. You can see their talks at IATED Talks: <https://iated.org/talks/>.

ICERI2024's scope was focused on the topics listed here: Pedagogical Methods and Innovations, Technology in Teaching and Learning, Inclusive Learning, Special Education, Emerging Technologies in Education, International Cooperation, Teacher Training and Educational Management, Curriculum Design, Accreditation and Quality in Education, University-Industry Cooperation and Open Educational Resources.

The ICERI2024 International Program Committee is composed 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 relevance, clear structure, clarity, originality, and alignment with the conference topics and disciplines.

As IATED strives to guarantee high technical and professional quality of the publications, and that good practice and ethical standards are maintained, all authors included in this publication signed the copyright transfer agreement. More information about our publication ethics is available at: https://iated.org/publication_ethics. As always, we wish to extend our most sincere thanks and best wishes to all members and delegates who have contributed to the ICERI2024 Conference Proceedings.

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ICERI2024 Keynote Speakers

Bart Rienties – The Open University, United Kingdom



Keynote speech:

Implementing learning analytics and learning design at scale: Lessons from the Open University UK and SoLAR

The Open University UK has been designing, implementing, and evaluating how to effectively provide meaningful learning opportunities for hundreds and thousands of learners across the globe. Since 2015 a range of learning analytics studies and practical intervention studies have shown that these learning analytics and learning design decisions made by educators substantially influence what, how and when learners are learning. However, applying and translating learning design and learning analytics in other institutions, countries and contexts is not a mere copy-paste job. In this keynote at ICERI2024 I will reflect on some of the lessons learned of how you might start to think about implementing learning analytics and learning design in your own context, if you have not already started to do so already. I will also reflect on how learning analytics and learning design has been implemented across the globe based upon the experiences within the Society of Learning Analytics Research (SoLAR).

Biography:

Dr. Bart Rienties is Professor of Learning Analytics and programme lead of the learning analytics and learning design research programme at the Institute of Educational Technology at the Open University UK. He leads a group of academics who provide university-wide learning analytics and learning design solutions and conduct evidence-based research of how students and professionals learn. As educational psychologist, he conducts multidisciplinary research on work-based and collaborative learning environments and focuses on the role of social interaction in learning, which is published in leading academic journals and books. His primary research interests are focussed on Learning Analytics, Professional Development, and the role of motivation in learning. Furthermore, Bart is interested in broader internationalisation aspects of higher education. He has successfully led a range of institutional/national/European projects, and has received a range of awards for his educational innovation projects. He is President of the Society of Learning Analytics Research (SoLAR), the largest researcher community on learning analytics. He has published over 300 academic outputs, and is the 1st most published and cited author on learning design and learning analytics in the period 2014-2023 (Drugova et al. 2023), the 2nd most published author on Networks in Education in period 1969-2020 (Saqr et al. 2022), and the 3rd most published author on EdTech in the period 2002-2022 (Aaradhi & Chakraborty, 2023).

Pat Yongpradit – Code.org, United States***Keynote speech:******AI Literacy: Teaching With and About AI***

AI literacy is the foundation for realizing the benefits of AI while mitigating the risks. As AI becomes more prevalent, education systems must equip students with skills to recognize, evaluate, and create with these technologies. Beginning with an introduction to AI and its transformative impact, the session will delve into what AI literacy entails and why it is essential for educators and students alike. Rather than a general discussion of

“AI in education”, attendees will gain insights into how the computer science (CS) education community has grappled with critical questions about the role of AI in the CS classroom. The session will highlight the potential of AI to enhance CS education and emphasize the opportunity to reflect on and rethink education as a whole.

Biography:

Pat Yongpradit is the Chief Academic Officer for Code.org, a non-profit dedicated to promoting computer science education, and lead of TeachAI, a global initiative to guide education leaders in rethinking education in an age of AI. His work spans policy and government affairs, curriculum and professional learning, school outreach, coalition building, and international development. Before becoming a global voice for K-12 computer science and AI education, he taught for 13 years, inspiring students to create mobile games and apps for social causes and broadening participation in computer science among underrepresented groups. He has been featured in the book, “American Teacher: Heroes in the Classroom,” and has been recognized as a Microsoft Worldwide Innovative Educator. He is certified in biology, physics, math, health, and technology education. Although Pat currently spends most of his time in education policy conversations, he still finds ways to sneak into the classroom!

Conference Tracks & Sessions

The ICERI2024 conference program is available online at <https://iased.org/iceri2024>

ORAL SESSIONS MONDAY

Assessment in the age of AI
ICT Skills among Teachers
Integrating Generative AI into Programming Education
Entrepreneur-ship Education
Workplace Learning
Technology-enhanced Learning
Developing Soft Skills
Educational Management
Health Promotion
Student Wellbeing in Higher Education
Sustainability in Architecture, Engineering & Construction
AI Skills among Teachers
Digital Repositories & Open Educational Resources
Generative AI and the World of Work
Entrepre-neurial Competences
Current Issues in Work-Integrated Learning in Europe
Learning Analytics
Information & Data Literacy
Educational Management & Leadership
STEM Education (1)
Student Support and Wellbeing (1)
Technology-Enhanced Business Education
Generative AI integration in Education
e-Learning
Experiences in Programming Education
International Projects & Mobility Experiences
Curriculum Design
Evaluation & Assessment
Digital Literacy
Educational Management in Higher Education
Experiences in Nursing Education
Inclusion of Learners with Special Educational Needs (1)
Accounting & Business Education
Microlearning & Videos for Learning
Best practices in Online Education
Robots in Education
Entrepreneur-ship Education & Competence Development
Critical Thinking
Online Assessment & Feedback
Education in Post-pandemic Times
Digital Transfor-mation of Education
New Technologies in Health Sciences Education
Research on Gender in Education
New Trends in Architecture and Civil Engineering Education

POSTER SESSIONS MONDAY

Pedagogical Innovations in Education
Challenges in Education and Research

ORAL SESSIONS TUESDAY

VLEs & LMS
Game-Based Learning
Challenges in Research and Development in Higher Education
Student Support
Sustainability & Social Impact of Education
Project-Based Learning
Pre-service Teacher Training (1)
Encouraging STEM Careers
Professional Development of STEM teachers (1)
Innovations in Special Education
Language Learning
Immersive Technologies
Gamification
Industry-University Collaboration and Innovation
Student Engagement and Motivation
Education for Sustainability
Problem-Based Learning
Pre-service Teacher Training (2)
Experiences in Engineering Education
STEM Pre-service Teacher Training
New Technologies in Special Education
Language Learning Assessment
Augmented and Virtual Reality
Experiential Learning
Quality in Education
Student Support and Wellbeing (2)
Sustainability in Higher Education
Flipped and Blended Learning
New Technologies for Teacher Training
STEM Education (2)
Professional Development of STEM teachers (2)
Diversity Issues & Inclusive Education
Teaching Reading and Writing
Ethics in the Age of AI
Pedagogical Innovations (1)
Creativity & Design Thinking
Tutoring & Coaching
Service Learning & Community Engagement
Lifelong Learning and Continuing Education
Professional Development of Teachers
Challenges for Computer Science Education
Technology-Enhanced STEM Education
Inclusion of Learners with Special Educational Needs (2)
Arts and Humanities in the 21st Century
AI-Powered Education
Pedagogical Innovations (2)
Collaborative International Learning Experiences
Challenges for Vocational Education and Training
Adult Education
Work-Integrated Learning and Employability in the 21st Century
Communities of Practice and Collaboration in Education
STEM in Schools
Experiences in STEM Education
Inclusion & Support of Minorities
Early Childhood Education

POSTER SESSIONS TUESDAY

Emerging Technologies in Education and Research
Educational Trends and Experiences

VIRTUAL SESSIONS**DIGITAL & DISTANCE LEARNING**

Blended, Hybrid & Mobile Learning
Distance Education in Times of Crisis
e-Learning Experiences
LMS & VLEs
MOOCs & Open Educational Resources

DIGITAL TRANSFORMATION OF EDUCATION

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

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

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 and the Labour Market
Life-long & Workplace Learning
Vocational Training
Non-Formal and Informal Learning

MULTICULTURALITY & INCLUSION

Diversity Issues
Inclusive Education
Multicultural Education
Special Educational Needs

STEM EDUCATION

Computer Science Education
Engineering Education
Mathematics & Statistics
STEM Experiences

LANGUAGE LEARNING AND TEACHING

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

DISCIPLINE-ORIENTED SESSIONS

Architecture & Design Education
Business & Tourism Education
Health Sciences Education
Military Education and Training