

IMCL2023

"Smart Mobile Communication & Artificial Intelligence"

Porto Palace Hotel*, Thessaloniki, 9–10 November 2023

** IMCL2023 is planned as an onsite event. Remote presentations will be supported.*

Special Session Call for Papers

From Headsets to Mindsets: Human-Centred Extended Reality for Fostering Participation, Engagement and Co-Creation. (From Headsets to Mindsets)

Overview

Extended Reality (XR) technologies such as Augmented Reality (AR), Virtual Reality (VR) and Mixed Reality (MR), empower students and teachers to engage in the process of learning and teaching in more authentic, interactive, and embodied ways. By combining interactive design paradigms with multisensory hardware and software, XR technologies have the potential to enhance the teaching and learning experience by focusing on human-driven elements such as participation, engagement, and co-creation. One of the key challenges identified in XR research is the focus on devices, headsets, hardware, and software as the predominant dynamics that influence the quality of the learning experience and less on the actual processes, practices and mindsets that may trigger meaning-making, knowledge construction and co-creation during the design and delivery of learning. This special session places emphasis on human-centred design and associated paradigms, constellations, and applications manifested for designing XR applications and tools that enable students and teachers to be more creative, resilient, participatory, and self-directed. In conjunction with the ongoing progress and revolution of generative AI, data-informed evidence and immersive content, this special session aims to shed light on how XR technologies and other emerging technologies such as games, AI applications and 3D designs can facilitate students and teachers to design and enact teaching and learning that is focused on creativity and critical practice. Authors are invited to submit research contributions or practical experience reports. All papers will be peer-reviewed by at least two referees. The special session provides an opportunity to experience state-of-the-art research and development in a plethora of XR topics that render both technical and empirical research related to work that present innovations in the field of XR applications and tools for learning, teaching, and training.

Topics

- XR applications and tools for human-centred design (interaction, participation, collaboration, creativity, engagement, storytelling, empathy, ethics etc.)
- XR application and tools for evaluation and testing (3D content, renderings, prototype testing, software, hardware, sensors etc.)
- Generative AI models for meaningful assessment and feedback and personalised learning (embedded into XR applications, games, chatbots, text-to—text, text-to-image, text-to-video etc.)
- Data and media literacy for active citizenship, learning and teaching

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- Models and frameworks for enhancing new and existing digital competencies and skills (AI-based, game-based, media and data literacy-based competencies, skills and capabilities)
- Computational thinking, tangibles, coding environments, 3D design and 3D printing for tinkering and making
- Game-based learning and playful interventions for social resilience
- Experiences of using immersive and emerging technologies for enhancing learning and teaching
- STEAM learning and arts integration in education and training

Program Committee

Chair(s)

Petros Lameris, Centre for Post Digital Cultures, Coventry University, Coventry, UK
Nektarios Moumoutzis, Lab of Distributed Multimedia Information Systems and Applications,
School of Electronics and Computer Engineering, Technical University of Crete
Sylvester Arnab, Centre for Post Digital Cultures, Coventry University, Coventry, UK

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Dr Polyxeni Arapi, Technical University of Crete - parapi@tuc.gr

Contribution Types

Special sessions, held in parallel with the general conference, are an integral part of the conference. Special sessions papers are required to meet the same standards as papers in the general conference and are published in the same conference proceedings.

The length of special session papers is 8-10 pages.

Presentation Types

IMCL2023 is planned as an onsite event. However, distant/pre-recorded presentations for special session papers are supported.

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Proceedings

All special session paper submissions are subject to a double-blind reviewing process. Only accepted and presented special session papers will appear in the proceedings if they have been uploaded before the deadlines. The conference proceedings will be published as IMCL2023 Proceedings in the Springer series "[Lecture Notes in Networks and Systems](#)".

More info is available at: <https://www.imcl-conference.org/current/proceedings.php>

Important Dates

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| 17 Jul 2023 | Submission of complete papers for special sessions |
| 31 Jul 2023 | Notification of acceptance |
| 13 Sep 2023 | Camera-ready due & author registration deadline |
| 09 Nov 2023 | IMCL2023 Conference Opening |

More info is available at: <https://www.imcl-conference.org/current/deadlines.php>

Submission

Please visit: <https://www.conftool.org/imcl-conference-2023/> and submit your paper by selecting the respective special session.