

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

### "(Mobile) Mixed and Augmented Reality in Education" (MAR-EDU' 2023)

#### Overview

Mixed Reality (MR) is broadly defined as the merging of real and virtual worlds to produce new contexts. Augmented Reality (AR) is the superposition of computer-generated elements in the real world. The rapid growth of mobile technologies facilitates the development of MR and AR systems and applications. Both MR and AR are evolving fast and are opening new horizons in education and training. MR and AR have the potential to offer engaging and immersive learning experiences improving learning outcomes in formal and informal education. These relatively new educational technologies necessitate new theoretical and empirical studies to explore how MR and AR can be effectively used in education, what instructional methods and pedagogies are appropriate to use and how teachers and learners can take full advantage of them.

The special session "(Mobile) Mixed and Augmented Reality in Education" (MAR-EDU' 2023) within the IMCL 2023 International Conference aims to promote the discussion on the applications and the impact of Mixed and Augmented Reality in Education. It will provide an opportunity for researchers and practitioners to present their latest work and propose Mixed and Augmented Reality systems and solutions, pedagogies, and instructional design methodologies as well as case studies and implementations.

#### Topics

The special session "(Mobile) Mixed and Augmented Reality in Education" (MAR-EDU'2023) invites original papers (full/short/poster submissions) in the following topics:

- Learning and teaching in virtual worlds
- Mobile assisted Mixed and Augmented Reality
- Smart Glasses in Teaching and Learning
- Instructional design with Mixed and Augmented Reality
- Mixed and Augmented Reality in online education
- Mixed and Augmented Reality pedagogies and didactics
- Collaborative learning in Mixed and Augmented Reality contexts
- Game-based learning in Mixed and Augmented Reality
- Problem-based learning in Mixed and Augmented Reality
- Inquiry-based learning in Mixed and Augmented Reality
- Mixed and Augmented Reality – based assessment
- Mixed and Augmented Reality in science education
- Mixed and Augmented Reality in special education
- Mixed and Augmented Reality in language education
- Mixed and Augmented Reality in medical education

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.*

---

- Mixed and Augmented Reality in archaeology education
- Mixed and Augmented Reality in cultural heritage
- Mixed and Augmented Reality in field trips
- Evaluation of Mixed and Augmented Reality in education
- Affective issues in Mixed and Augmented Reality
- Teacher training in Mixed and Augmented Reality
- Wearables in education
- Simulations and virtual labs in teaching and learning
- Teachers and students' perceptions about Mixed and Augmented Reality
- Mixed and Augmented Reality adoption
- Usability issues in Mixed and Augmented Reality
- Mixed and Augmented Reality related ethics

## Program Committee

### Chair(s)

**Stavros A. Nikou**, Lecturer Digital Education, School of Education, University of Strathclyde, Glasgow, UK, Email: [stavros.nikou@strath.ac.uk](mailto:stavros.nikou@strath.ac.uk), Webpage: <https://www.strath.ac.uk/staff/nikoustavrosdr/>

**Anastasios A. Economides**, Professor Information Systems IPPs and Economics Department, Director SMILE Lab, University of Macedonia, Thessaloniki, GR, Email: [economid@uom.gr](mailto:economid@uom.gr), Webpage: <http://smile.uom.gr>

**Maria Perifanou**, Senior researcher in TEL, SMILE Lab, University of Macedonia, Thessaloniki; Adjunct Lecturer, School of Philosophy, Aristotle University of Thessaloniki; Adjunct Academic Staff, School of Humanities, Hellenic Open University, Patras, GR, Email: [mariaperif@gmail.com](mailto:mariaperif@gmail.com), Webpage: <http://smile.uom.gr>

### Members

**Feng-Kuang Chiang**, Shanghai Jiao Tong University, China

**Benedikt Hensen**, RWTH Aachen University, Germany

**Dominik May**, University of Wuppertal, Germany

**Alexander Mikroyannidis**, The Open University, UK

**Stylios Mystakidis**, University of Patras, Greece

**Antigoni Parmaxi**, Cyprus University of Technology, Cyprus

**Carlos Santos**, University of Aveiro, Portugal

**Apostolos Vlachos**, University of the Aegean, Greece

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.*

---

### 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.

### 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

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.