

IMCL2023

*"Smart Mobile Communication & Artificial Intelligence"*

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

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

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## Special Session Call for Papers

### Learning Analytics and Knowledge in Mobile Environments (LAK-ME)

#### Overview

This session highlights the importance of learning analytics through mobile communication and mobile technologies. This session will invite contributions focusing on data collection, analysis and knowledge extraction, specifically in mobile learning environments. Mobile learning has inherent challenges to student engagement and potentially detrimental effects on students' performance (Wilkinson & Barter, 2016). These challenges are related to interface constraints, limited input capabilities, distractions, multitasking and compatibility and responsiveness related issues in such technologies. This session addresses these issues using learning analytics in mobile learning environments. Moreover, this session will also include contributions using sensing technologies and multimodal learning analytics in mobile learning environments.

Multimodal learning analytics and sensor-based analytics have shown high potential to capture the learning performance and learning process across a diverse set of learning contexts (Sharma & Giannakos, 2020). The state-of-the-art solutions focus on capturing engagement, providing adaptive and personalised content to learners in various learning settings, such as formal and informal, individual and collaborative learning. However, multimodal learning analytics and sensor-based analytics are limited in mobile learning contexts. The main reason behind this, in the past, has been the unavailability of the consumer grade sensing devices and issues related to integrating such technologies in mobile learning environments in a seamless manner.

With the advancements in the off the shelf sensing technologies and available software development toolkits, it is becoming increasingly easier to integrate sensor-based and multimodal learning analytics toolkits in traditional learning environments (Wang et al, 2023). In this session, we will focus on two types of contributions. First are the contributions that use sensor based and/or multimodal learning analytics to capture students' engagement, performance and other learning processes in mobile learning environments. The second type of contributions will focus on the adaptation, personalisation and feedback opportunities and challenges in mobile learning environments using appropriate learning analytics.

#### Topics

The contributions should be related to, but not limited to, the following topics:

- Learning analytics in mobile learning technologies
- Sensor-based learning analytics in mobile learning technologies
- Multimodal learning analytics in mobile learning technologies

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- Wearable sensing in learning contexts
- Learning dashboards for mobile learning environments
- Adaptation and personalization in mobile learning environments
- Factors related to students' performance in mobile learning environments
- Facilitating engagement in mobile learning environments
- Feedback and assessment in mobile learning environments
- Privacy and ethical aspects of mobile learning analytics

## Program Committee

### Chair(s)

Kshitij Sharma, Norwegian University of Science and Technology, Norway,  
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### Members

Sofia Papavlasopoulou (Norwegian University of Science and Technology, Norway)

Sanna Jarvela (University of Oulu, Finland)

Jonna Malmberg (University of Oulu, Finland)

Luis Prieto Pablo Santos (University of Valladolid, Spain)

Maria Jesus Rodriguez Triana (Tallinn University, Estonia)

Mutlu Chukurova (University College London, UK)

Mohammad Abidgail (University of Eastern Finland, Finland)

Himanshu Verma (TU Delft, The Netherlands)

Shitanshu Mishra (UNESCO, New Delhi, India)

Khanh Nguyen (University of Oulu, Finland)

## 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

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.