

Preface

ICALT 2023

The International Conference on Advanced Learning Technologies (ICALT) is an annual conference organized by the IEEE Computer Society and IEEE Technical Community on Learning Technology. It aims to bring together people who are working on the design, development, use, and evaluation of technologies that will be the foundation of the next generation of e-learning systems and technology-enhanced learning environments. After its kick-off as IWALT in Palmerston North, New Zealand (2000), ICALT has been held in Madison, USA (2001), Kazan, Russia (2002), Athens, Greece (2003), Joensuu, Finland (2004), Kaohsiung, Taiwan (2005), Kerkade, The Netherlands (2006), Niigata, Japan (2007), Santander, Spain (2008), Riga, Latvia (2009), Sousse, Tunisia (2010), Athens, Georgia, USA (2011), Rome, Italy (2012), Beijing, China (2013), Athens, Greece (2014), Hualien, Taiwan (2015), Austin, USA (2016), Timisoara, Romania (2017), Mumbai, India (2018), Maceió, Brazil (2019), Tartu, Estonia (2020, Online), and Virtual (2021, Online) due to the COVID-19 pandemic, Bucharest, Romania (2022, Hybrid). The 23rd IEEE International Conference on Advanced Learning Technologies (ICALT 2023) is organized by IEEE TCLT and held in Orem, Utah, United States, in a hybrid model due to the pandemic.

This year, the ICALT conference is structured with 14 tracks on various thematic topics, including: Technologies for Open Learning and Education; Adaptive and Personalised Technology-Enhanced Learning; Mobile Applications of Learning Technologies for Education and Development; Digital Game and Intelligent Toy Enhanced Learning; Computer Supported Collaborative Learning; Big Data in Education and Learning Analytics; Technology-Enhanced Science, Technology, Engineering and Math Education; Technology Enhanced Language Learning; Technology Supported Education for People with Disabilities; Artificial Intelligence and Smart Learning Environments; Augmented Reality and Virtual Worlds in Education and Training; Motivational and Affective Aspects in Technology-enhanced Learning; Technology-Enhanced Assessment in Formal and Informal Education; Internet of Everything (IoE) for Smart Education; and a Doctoral Consortium.

ICALT 2023 received 186 papers from 46 countries. All submissions were peer-reviewed through a double-blind review process by an international panel of at least three international expert referees and decisions were taken based on research quality. We are very pleased to report that the quality of the submissions this year turned out to be very high. In average each submission in the main tracks received 3.5 reviews. A total of 32 papers were accepted as full papers, thus resulting in a full paper acceptance rate of around 22.54%. Furthermore, 59 papers were accepted for presentation as short papers, 15 as discussion papers, and 3 papers were selected for the Doctoral Consortium.

We acknowledge the invaluable assistance of the track chairs and the track program committee members. A complete list of track chairs and track PC members can be found in the next page. Most reviewers provided detailed and constructive comments which were valuable for the authors to continue improving their papers, even if their submissions were not selected for the conference.

Given the high-quality works done by authors, reviewers, and track chairs, we are confident that the ICALT 2023 proceedings captures the current state-of-the-art research in the learning technology field and will have a significant impact on the research community in the longer term.

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