

# Preface

Technologies have impacted the ways we learn and teach. The need for continuous just-in-time training has made learning technology an indispensable part of life for workers. The necessity to disseminate information to large masses in education has led to an explosion of technological innovations in that field. Today, there are various technologies that can be used for teaching and learning. These include tools such as social media, MOOC, big data, and cloud. We are also living in a world of increased mobility where proliferation of mobile technologies is creating a host of new “anytime and anywhere learning” for students. Higher education will vigorously adopt new teaching approaches, propelled by opportunity and efficiency as well as student and parental demands.

The 4th LTEC (2015) conference examined these technologies that are changing the way teachers teach and students learn, while giving special emphasis to the pedagogically effective ways one can harness these new technologies in education. This conference brings together researchers across all educational sectors, from primary years, to informal learning, to higher education across a range of disciplines from humanities to computer science, media, and cultural studies with different perspectives, experiences, and knowledge in one location. It aims to help practitioners find ways of putting research into practice and for researchers to gain an understanding of real-world problems, needs, and aspirations.

The proceedings consist of 24 papers covering various aspects of technologies for learning including:

- MOOC challenges
- Cooperative learning
- Learning engineering
- Learning tools and environments
- STEM

The authors of the papers come from many different countries such as Australia, Brazil, Estonia, Finland, France, Germany, Greece, Guatemala, Japan, Korea, Malaysia, Mexico, Slovakia, Slovenia, Switzerland, Taiwan, and Tunisia, and the UK.

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