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Educating for a New Future: Making Sense of Technology- Enhanced Learning Adoption

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Proceedings


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Preface

Welcome to the proceedings of the 17th European Conference on Technology Enhanced Learning (EC-TEL 2022) - one of the flagship events of the European Association of Technology Enhanced Learning (EATEL). Due to the restrictions imposed by the COVID-19 pandemic, EC-TEL 2020 and 2021 were held in an online format. However, EC-TEL 2022 was able to be held in person in Toulouse, France, and was hosted by the Institut de Recherche en Informatique de Toulouse during September 12–16, 2022.

In addition to the restrictions of hosting EC-TEL 2022 as an in-person event, the COVID-19 pandemic generated further challenges concerning technology-enhanced learning. In order to avoid the spread of the virus, many educational institutions rapidly shifted to remote learning activities. This derived to an intensive use of educational technologies without necessarily having the required capacities. Still, best practices and lessons learned can be captured by looking back to what happened during that period of time. In this context, researchers and practitioners who are involved in the design and implementation of technology enhanced learning (TEL) not only have the responsibility of understanding the consequences of the pandemic in terms of TEL adoption, but also the opportunity to evaluate and improve the learning processes at an institutional level.

In this context, the conference topic for EC-TEL 2022 was “Educating for a new future: Making sense of technology-enhanced learning adoption”. In the past two decades, many educational technologies emerged and evolved along with the growing attention for ‘the Web’ and ‘the Internet’. Throughout this road, researchers and practitioners have designed and implemented different types of strategies, tools, services, and devices to improve learning for a wide range of students. Many studies have been carried out by our community to describe promising technologies, which underpin and benefit multiple educational contexts around the world. However, never before have we seen the increased mainstream adoption of educational technologies observed since the outbreak of the COVID-19 pandemic. The current context gives rise to several questions such as: What is the purpose of education in the current context of societal transformation? How do learning technologies support this new purpose? How do we ensure that technology is a means to make education more inclusive? In case of another similar situation, will institutions, teachers and students be more prepared for this rapid shift to full digital situation (electronic administration, teaching, etc.)? In that sense, this EC-TEL conference provides us with an opportunity to search for answers to some of these questions, and to explore different topics concerning the future of education.

For EC-TEL 2022, 109 research paper contributions were received. All papers were reviewed by at least three members of the TEL community in a double-blind review process, followed by discussions and a meta-review provided by a senior TEL member. As a result, 30 research papers (27.5%) were accepted and presented at the conference. In addition, 21 posters and 10 demos were presented during the conference to fuel the discussions among the researchers. Research, poster, and demo papers can be found in this volume. In addition, the conference offered seven workshops over two days and a doctoral consortium.

We would like to thank all people involved for making this conference possible particularly authors who submitted their contributions to the conference. Thanks also to the members of the Program Committee who provided reviews on papers, discussed them and supported decision making on paper acceptance. We would like to thank the workshop chairs, Sergey Sosnovsky and Patricia Santos; the dissemination chair, Yizhou Fan; the doctoral consortium chairs, Mikhail Fominykh, Ioana Jivet, Jan Schneider, Daniele Di Mitri, and Zacharoula Papamitsiou; and the steering committee representative, Ralf Klamma. We would also like to thank the local organizers, Mar Pérez-Sanagustín and Julien Broisin, for their hard and excellent work for EC-TEL 2022.

July 2022

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