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# Addressing Global Challenges and Quality Education

15th European Conference  
on Technology Enhanced Learning, EC-TEL 2020  
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Proceedings


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# Preface

Welcome to the proceedings of the 15th European Conference on Technology Enhanced Learning (EC-TEL 2020), one of the flagship events of the European Association of Technology Enhanced Learning (EATEL). In addition to the social and economic crisis, the pandemic has led to a historic inflection point in education. The impact of COVID-19 worldwide and the closure of schools and universities has led to numerous changes in how, where and with which tools we learn, and how education can take place at a distance. One of these changes is that lockdowns triggered the use of Technology-Enhanced Learning (TEL) at a massive level and throughout the world due to the urgent need to transform face-to-face into online classes. Such circumstances pose new challenges and research questions that our community must address.

Looking back, the theme of EC-TEL 2020 (Addressing Global Challenges and Quality Education) could not have been more timely with COVID-19 affecting education and its quality all over the world. Thus, the Sustainable Development Goals of Quality Education and Reduced Inequalities, as defined in the United Nations Agenda 2030, are more essential than ever. In a global world of great contrasts, we are all suffering the consequences of this unexpected pandemic, and it is paramount to find global solutions to provide equitable quality education and promote lifelong learning opportunities for all. This not only requires improving student performance and success in general but also supporting under-represented groups and those disadvantaged by inequality. In this challenging context, the active role of the TEL community may be crucial to pursue the aforementioned goals.

Another important change this year is that EC-TEL 2020 will be held online for the first time in its 15-year history. Although EC-TEL 2020 was initially planned to take place in Heidelberg, Germany, local health authorities advised against organizing large events. What was to be a major liability has been transformed into a powerful experience in which to continue learning and evolving as a community thanks to the researchers who have continued to rely on this conference to submit and present their contributions. This year, 91 contributions were received despite the difficulties of some researchers to carry out developments and studies as well as reporting them. All of these contributions were reviewed by three members of the TEL community, who also had follow-up discussions to agree on a meta-review. As a result, 24 research papers (26.4%) were accepted and presented at the conference. This shows the high competitiveness and quality of this conference year after year. In addition, 20 posters, 5 demos, and 8 impact papers were presented during the conference to fuel the discussions among the researchers. Research papers, posters, and demos can be found in this volume, while impact papers are published in companion proceedings via CEUR.

EC-TEL 2020 was co-located with another major conference in Germany, the 18th Fachtagung Bildungstechnologien der GI Fachgruppe Bildungstechnologien (DELFI 2020). This helped create partnerships between the two conferences and allowed attendees to exchange ideas and benefit from presentations and workshops that were

offered in both conferences. As an example, 14 workshops and 4 keynotes (Linda Castañeda, Jens Mönig, Samuel Greiff, and Sabine Seufert) were co-located between EC-TEL 2020 and DELFI 2020.

The last words are words of gratitude. Thanks to the researchers who sent their contributions to EC-TEL 2020. Thanks to the members of the Programme Committee who devoted their time to give feedback to authors and supported decision making on paper acceptance. Finally, deep thanks to the local organizers, Marco Kalz and Joshua Weidlich, who have worked very hard to host this conference online with the same quality as in previous years.

July 2020

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