CERME11: Thematic Working Group 16
Students Learning Mathematics with Technology and Other Resources

Leader: Hans-Georg Weigand (Germany), weigand@mathematik.uni-wuerzburg.de
Co-leaders: Ana Donevska-Todorova (Germany/Macedonia), Eleonora Faggiano (Italy), Eirini Geraniou (UK), Nathalie Sinclair (Canada)

Scope and focus of the Thematic Working Group
The scope of this thematic working group is to address opportunities and possibilities, as well as challenges and limitations, of information and communication technology (ICT) and other resources for student learning. ICTs include a range of resources, such as software, hand-held devices, online and classroom activities. In addition, they are considered in relation to more traditional non-digital resources such as textbooks, worksheets and various types of tools and manipulatives. We want to establish an overview of the current state of the art research in technology use in mathematics education, including practice-oriented experiences, research-based evidence, and theoretically enriched perspectives, as seen from an international perspective and with a focus on student learning. We also aim to suggest important trends for technology-rich mathematics education in the future, including a research agenda. Even though TWG15 is closely related to this theme, it focuses on the role and practices of the teacher.

Call for papers and poster proposals
TWG16 particularly welcomes theoretical, methodological, empirical or developmental paper and poster proposals on these and other issues, such as:

- Analyses of the impact of using digital and non-digital technology on students’ learning, including large-scale empirical studies;
- New forms of digital resources and state of the art technology, e.g. 3D printers and 3D pens;
- Digital assessment of and for learning;
- e-learning, personalized learning, blended mathematics education and (Massive Open) Online Courses for mathematics;
- Influence and use of social media in students' perception of learning mathematics;
- Promoting communication and collaborative work between students through ICT;
- Using ICT for out-of-school mathematics learning;
- Virtual and augmented reality in mathematics education;
- Resources and technologies devoted to the support of students with disabilities;
- Digital resources for research in mathematics education.

Any paper/poster of relevance to the overall focus of the group will be considered.

Papers and poster proposals should use the CERME template, and conform to the guidelines at the guidelines website. CERME 11 uses a submission website. The authors submit the initial version of their paper on the website (uploading it both as a .doc and a .pdf file, and providing the required information, in particular the TWG number).

Reviews and decisions
Each paper will be peer-reviewed by two persons from among those who submit papers to this TWG. Please expect to be asked to review up to two papers yourself. The group leaders will decide about the acceptance of posters.

Important dates
- 15th July 2018: Early bird submission (please refer to the early bird website)
- 15th September 2018: Initial submission by authors in the submission system.
- 3rd November 2018: Initial decisions on papers and posters sent.
- 24th November 2018: The authors submit a revised version if needed.
- 5th December 2018: Final decisions sent.
- 12th December 2018: Final version uploaded.
- 13th January 2019: Papers available on CERME 11 website.