

Message from the Working Group Chairs

In these proceedings we present reports from the Working Groups that convened at the 22nd Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), held at Università di Bologna, Bologna, Italy from 1-5 July, 2017.

The concept of Working Groups is unique to the ITiCSE conference. A Working Group comprises a team of 5 to 10 researchers who work together on a project related to computing education. Working Groups provide a wonderful opportunity to work intensively on a topic of interest with an international group of computing education researchers. Working groups begin work electronically before the ITiCSE conference. They convene for face-to-face work on the Friday evening before the conference, work together on the Saturday and Sunday, and continue working throughout the three days of the conference. At the end of the conference the groups submit a draft report and a few weeks after the conference they submit a final report for review.

In 2017 16 proposals for Working Groups were received and a record number of nine Working Groups were selected by the Working Group chairs to convene at ITiCSE 2017. Participants presented their results to conference attendees at one of two special working group presentation sessions. Their final reports were double blind reviewed by at least three selected expert reviewers, and eight reports were selected for publication in this proceedings for the ACM Digital Library.

The Working Group reports cover diverse topics: student engagement, game development, assessment development, perceptions of code quality, a holistic understanding through research papers, effects of lecturer interventions on student behaviour, the Internet of Things and early developmental activities leading to computational thinking skills.

We would like to thank the authors and reviewers for their work in producing a high standard of Working Group reports. A special thank you to the organizers of ITiCSE 2017 for all their help with the local arrangements in Bologna.

Welcome to this proceedings of the Working Group Reports of ITiCSE 2017 from Bologna, Italy!

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