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## CALL FOR CONTRIBUTIONS

# Software Engineering Education and Training (SEET) Track ICSE 2014

URL: <http://2014.icse-conferences.org/seet>



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### Extending the Boundaries of Software Engineering Education and Training

**Goal.** Software engineering is a maturing discipline that is increasingly important in a technology enabled connected world. The changes in this new century are probing the boundaries of software engineering education and training. These changes vary from an ever-increasing rate of technology adoption to the online education popularity. It is often claimed new technologies can help educators to make a difference in software engineering teaching and learning. Others claim e-learning and its various delivery formats may even dominate education and training in the near future. Therefore, educating and training tomorrow's software engineers represent ongoing challenges. For instance, the promotion of distance learning in many topics of software engineering – such as requirements engineering, software design, modular programming, software testing and software project management – remains challenging and requires further development. Studying these subjects can become more difficult if the courses are designed without attention to human-computer interaction issues. Many software engineering topics are highly technical in nature, which may be hard for either students or professionals to learn independently in a fully online environment. There are many other challenges as the frontiers of software engineering education and training are being extended in many directions. In this context, in this year's ICSE track on Software Engineering Education and Training (SEET), our goal is to explore how to extend the boundaries of how educators, trainers, students and professional software engineers exchange and acquire software engineering knowledge and skills.

**Scope.** The ICSE 2014 SEET Track is looking for contributions that address new challenges and best practices in software engineering and training. While we welcome submissions on all topics related to software engineering education and training, we are particularly interested in submissions exploring recent trends in education and training. A few examples of such trends include the innovative use of social media for knowledge management and acquisition, the widespread adoption of mobile devices, the online education movement, and the increasing uptake in end user software engineering in business and the sciences. A key concern is how these and other exciting developments will or may play a role in traditional software engineering education and training programs. Innovative approaches to other long-term challenges are also welcome.

**Topics of interest.** The track is intended to cover a wide range of topics, including (but not limited to):

- new best practices for SEET
- innovative curriculum or course formats
- experiences with the ACM/IEEE Curriculum 2013
- impact of online education movement on SE curricula
- innovative methods for SEET in online courses
- learnable programming
- integration of software engineering research into teaching and training
- blending software engineering and other disciplines, such as music, art and psychology
- continuing education in the face of rapid technological change
- education and training paradigms of the new century, such as cloud computing or global software development
- ensuring graduated students meet new industry needs through the understanding of development practices for different environments
- innovative use of social media for knowledge management
- exploring the widespread adoption of mobile devices for SEET
- different experiences and needs in developing countries

**Format and Submissions.** All papers must conform to the [ICSE 2014 formatting and submission instructions](#). Page limits include all text, references, appendices, and figures. We solicit high-quality submissions for this track in the following categories:

- **Full papers**, up to 10 pages, documenting results and findings, where the research presented has followed established research methods;
- **Short papers**, up to 4 pages, reporting novel results that have not been fully evaluated;
- **Case study papers**, up to 8 pages, reporting on novel courses, tools, or delivery formats, possibly related to the ACM/IEEE Curriculum 2013
- **Panel session proposals**, up to 4 pages, which describe the topic to be discussed and include an argument as to why this topic will be of interest and present a proposed panel membership.

Papers must be submitted electronically by October 23rd, 2013. Accepted papers will appear in the SEET Proceedings of the ICSE 2014 Conference and the ACM and IEEE digital libraries. All submissions will be reviewed by at least three members of the SEET Program Committee. The submission must not have been previously published or concurrently submitted elsewhere. Submissions will be evaluated on the basis of originality, significance of contribution, applicability, validation, relation to the goals listed above, discussion of related work, and quality of presentation.

#### Important Dates

**Paper submission:** October 23rd, 2013

**Author Notification:** February 17th, 2014

**Camera ready version:** March 14th, 2014

#### Track Co-Chairs

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#### Program Committee

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