Aim and Scope

The First Edition of the Software Architecture: Theory, Technology, and Applications (SA-TTA 2013) is part of the 28th ACM Symposium on Applied Computing (SAC). For the past twenty-seven years, ACM SAC has been a primary gathering forum for applied computer scientists, computer engineers, software engineers, and application developers from around the world. SAC 2013 is sponsored by the ACM Special Interest Group on Applied Computing (SIGAPP), and will be held at the Institute of Engineering of the Polytechnic Institute of Coimbra, Coimbra, Portugal.

The goal of the track SA-TTA is to bring together researchers and practitioners having the common objective of transforming Software Architecture into a mature discipline leveraging on both solid scientific foundations and validated engineering methodologies and tools. SA-TTA is focused broadly on how to address functional requirements and quality characteristics in the design, maintenance, and adaptation and evolution of software architectures through the support of automated techniques and tools. Of special interest are architecture description languages, formalisms, techniques, methodologies, tools, and runtime environments that support these activities, possibly exploiting model-driven engineering principles. A special emphasis will be put also on technical aspects of software architectures development for specific class of software systems and application domains.

The SA-TTA track seeks to attract scholars, researchers, engineers, and practitioners interested in Applied Software Architecture, namely a special emphasis will be put on practical engineering concerns, experiences in tools development, and applications of Software Architecture. Specific topics include, but are not limited to:

- Architecture description languages and component models for Software Architectures
- Architectural patterns, styles, viewpoints, and tool support
- Adaptivity architectural patterns and tactics
- Architecture quality measures and tool support
- Functional validation and verification techniques for Software Components and Architectures
- Linking architecture to requirements and implementation
- Software architectures at run-time
- Software Product Lines for Software Architecture
- Software Architectures for legacy systems and systems integration
- Software Architectures for Real-time and Embedded Systems
- Software Architectures for Self-adaptive Systems
- Software Architectures for Cloud-based applications and Services
- Software Architectures for Social Computing
- Software Architectures for Collective Adaptive Systems
- Model-driven methodologies and tools for Software Architectures
- Industrial experiments and case studies

Submissions

Two types of submissions are allowed: regular papers and student research abstracts (new for SAC 2013) . See the submission page www.unibg.it/sa-tta/submission.html for more details. Accepted papers will be published in the annual conference proceedings. Paper registration for the conference is required and allows the paper to be printed in the conference proceedings. An author or a proxy attending SAC MUST present the paper. This is a requirement for the paper to be included in the ACM digital library. No-show of scheduled papers will result in excluding the papers from the ACM digital library.

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Important Dates

Regular papers:
> Paper Submission: September 21, 2012
> Author Notification: November 10, 2012
> Camera ready copies: November 30, 2012

Student research abstracts:
> Research Abstracts: October 31, 2012
> Author Notification: November 30, 2012
> Presentations: March 19, 2013