



QoSA

The
System View

June 17-21, 2013
University of British Columbia
Vancouver, Canada
http://qosa.ipd.kit.edu/qosa_2013

Ninth International Conference on the Quality of Software Architectures

Call for Papers to QoSA 2013

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QoSA is the premier forum for the presentation of new results in the area of software architecture quality. It brings together researchers, practitioners and students who are concerned with software architecture quality in a holistic way. As a working conference QoSA has a strong practical bias, encompassing research papers, industrial reports and invited talks from renowned speakers.

The System View

This year the main theme of QoSA is "**The System View**". Often, a software system is not isolated, but is a part of a larger system that relies on that software. Examples of such systems are technical systems such as smart grids or embedded systems as well as systems that include human actors. When making decisions, not only is the quality of the software architecture itself important, but also the quality of the system architecture and the overall system. As an example, additional quality metrics related the whole system might be needed.

In this year's QoSA we solicit contributions that explore this holistic system perspective, connect quality of software architecture to system architecture or other system considerations, and explore foundations for assuring the desirable quality of systems that rely on software. At the same time, submissions related to the general topic of the conference are welcome. Topics of interest for the conference include (but are not limited to) the following themes:

Architecture Design and Implementation

- design decisions and their influence on the quality of software architecture
- maintaining architectures in the presence of change
- architectural refactorings and implications for quality
- architectural standards, reference architectures
- model-driven methods and tools for architecture design and implementation

Architecture Evaluation

- quality assessment of legacy systems and third party applications
- empirical validation, testing, prototyping and simulation for assessing architecture quality
- quality attributes of software architectures
- methods and processes for evaluating architecture quality
- model-driven evaluation of architecture quality
- evaluating the effects of architectural adaptations at run-time
- lessons learned and empirical validation of theories and frameworks on architecture quality

Architecture Management

- assessment and enforcement of architectural conformance throughout the software lifecycle
- traceability of architecture to requirements and implementation
- models and tools for coping with architecture evolution
- applications to industrial case studies and use cases

Submissions

We solicit two types of submissions: regular papers and position papers.

- **Regular papers** should describe original and significant results of theoretical, empirical, conceptual, or experimental research or of experience from industrial practice. Reflecting the practical emphasis of QoSA, papers showcasing applications along with a sound conceptual contribution are welcome. Regular papers are limited to **10 pages**.
- **Position papers** describe novel ideas or innovative proposals whose aim is to stimulate discussion related to experiences and ideas, rather than to present mature results. Position papers are limited to **6 pages**.

The best contribution of the conference will receive the ACM SIGSOFT Distinguished Paper Award, given by the ACM Special Interest Group on Software Engineering.

Important Dates

Abstract submission: Feb 06, 2013; Paper submission: Feb 13, 2013,

Author notification: Mar 25, 2013; Final version: Apr 17, 2013, Conference: Jun 17-21, 2013