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Altri autori (Persone)	HeinemanGeorge T KofronJan PlasilFrantisek
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Abstracts of the Keynotes -- Intrinsic Definition in Software Architecture Evolution -- A Component-Based Approach to Adaptive User-Centric Pervasive Applications -- Model-Driven Analysis -- Validating Model-Driven Performance Predictions on Random Software Systems -- Statistical Inference of Software Performance Models for Parametric Performance Completions -- Parameterized Reliability

Prediction for Component-Based Software Architectures -- Architecture-Driven Reliability and Energy Optimization for Complex Embedded Systems -- Quality of Service Adaptation -- QoS Driven Dynamic Binding in-the-many -- A Hybrid Approach for Multi-attribute QoS Optimisation in Component Based Software Systems -- Using QoS-Contracts to Drive Architecture-Centric Self-adaptation -- Case Studies and Experience Reports -- Is BPMN Really First Choice in Joint Architecture Development? An Empirical Study on the Usability of BPMN and UML Activity Diagrams for Business Users -- Barriers to Modularity - An Empirical Study to Assess the Potential for Modularisation of Java Programs -- Evaluating Maintainability with Code Metrics for Model-to-Model Transformations -- Good Architecture = Good (ADL + Practices).

Sommario/riassunto

The goal of QoSA is to address aspects of software architecture focusing broadly on quality characteristics and how these relate to the design of software architectures. Specific issues of interest are defining quality measures, evaluating and managing architecture quality, linking architecture to requirements and implementation, and preserving architecture quality throughout the lifetime of the system. Past themes for QoSA include Architectures for Adaptive Software Systems (2009), Models and Architecture (2008), and Software Architecture, Components, and Applications (2007). In this, the sixth incarnation of QoSA, researchers and practitioners demonstrated how specific sub-elements within an architecture lead to measurable quality in the implemented system. While clear challenges remain, the theme for QoSA 2010 was "Research into Practice - Reality and Gaps."

There were 32 submissions to QoSA 2010 from which the Program Committee selected 11 long papers, for an acceptance rate of 34%. To further foster collaboration and exchange of ideas with the component-based software engineering community, QoSA was held as part of the conference series Federated Events on Component-based Software Engineering and Software Architecture (COMPARCH). These federated events were QoSA 2010, the 13th International Symposium on Component-Based Software Engineering (CBSE 2010), the 15th International Workshop on Component-Oriented Programming (WCOP 2010), and the First International Symposium on Architecting Critical Systems (ISARCS 2010), a symposium dedicated to dependability, safety, security and testing/analysis for architecting systems. Because of the close relationship between the CBSE and QoSA communities, COMPARCH 2010 once again integrated these technical programs to further promote discussion and collaboration. We would like to thank the QoSA Steering Committee and the members of the Program Committee for their dedicated and valuable work during the review process. We thank Alfred Hofmann from Springer for his continuing support in reviewing and publishing this proceedings volume.
