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Jens Grabowski · Steffen Herbold (Eds.)

System Analysis and Modeling

Technology-Specific Aspects
of Models

9th International Conference, SAM 2016
Saint-Melo, France, October 3–4, 2016
Proceedings

Editors

Jens Grabowski
Georg-August-Universität Göttingen
Göttingen
Germany

Steffen Herbold
Georg-August-Universität Göttingen
Göttingen
Germany

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Preface

The System Analysis and Modeling (SAM) conference provides an open arena for participants from academia and industry to present and discuss the most recent innovations, trends, experiences, and concerns in modeling, specification, and analysis of distributed, communication, and real-time systems using the Specification and Description Language (SDL-2010) and Message Sequence Charts (MSC) notations from the International Telecommunication Union (ITU-T), as well as related system design languages such as UML, ASN.1, TTCN-3, SysML, and the User Requirements Notation (URN).

The first seven editions of SAM (Berlin 1998, Grenoble 2000, Aberystwyth 2002, Ottawa 2004, Kaiserslautern 2006, Oslo 2010, and Innsbruck 2012) were workshops. Since the 2014 edition of SAM in Valencia, SAM has become a conference to better reflect its structure, audience, and overall quality.

This 9th SAM conference (<http://sdl-forum.org/Events/SAM2016/>) was co-located with the ACM/IEEE 19th International Conference on Model-Driven Engineering Languages and Systems (MODELS 2016) in Saint-Malo, France, during October 3–4, 2016.

Theme for 2016: Technology-Specific Aspects of Models

Modern modeling languages are used in many different domains and for many different applications. Technology-specific aspects of models include domain-specific aspects of models and peculiarities of using models for different technologies, including, but not limited to the Internet of Things (IoT), automotive software, cloud applications, and embedded software. Moreover, the usage of models for different purposes and the combination with different software engineering technologies, including but not limited to software testing, requirements engineering, and automated code generation are also of interest within this theme.

SAM 2016 especially invited contributions that cover such domain and application-specific aspects. Additionally, academics and industry representatives were invited to provide contributions regarding models and quality, language development, model-driven development, and applications.

Review Process

SAM 2016 used a multi-tier review process. First, all papers were reviewed by at least three Program Committee members. The papers and reviews were then made available to Program Committee members who did not have a conflict of interest with the authors. The papers were discussed online during a one-week online meeting before final decisions were made. Out of 31 full papers, 15 papers were selected (48% acceptance rate).

Proceedings Overview

This volume contains 15 papers selected for presentation at SAM 2016. The volume reflects the five sessions of the conference. The first two sessions are closely aligned with the conference theme with a session on the “Internet of Things” and a session on “Technology-Specific Aspects.” The other three sessions cover aspects regarding modeling languages and model-driven development in general and were organized in the sessions “Languages, Configurations and Features” and “Patterns and Compilation.”

Acknowledgement

The ninth edition of SAM was made possible by the dedicated work and contributions of many people and organizations. We thank the authors of submitted papers, the 41 members of the Program Committee, the three additional reviewers, and the board members of the SDL Forum Society. We thank the MODELS 2016 local Organizing Committee for their logistic support. The submission and review process was run with the EasyChair conference system (<http://www.easychair.org/>) and we thank the people behind this great tool.

October 2016

Jens Grabowski
Steffen Herbold

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