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Ferhat Khendek · Reinhard Gotzhein (Eds.)

System Analysis and Modeling

Languages, Methods,
and Tools for Systems Engineering

10th International Conference, SAM 2018
Copenhagen, Denmark, October 15–16, 2018
Proceedings

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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) 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). This 10th SAM conference (<http://sdl-forum.org/Events/SAM2018/>) was held in Copenhagen, Denmark, October 15–16, 2018. It was collocated with the ACM/IEEE 21st International Conference on Model-Driven Engineering Languages and Systems (MODELS 2018).

This year's edition of SAM was under the theme “Languages, Methods, and Tools for Systems Engineering,” including languages and methods standardized by the ITU-T, and domain-specific languages. This volume contains the papers presented at SAM 2018. In total, 14 high-quality papers were selected from 24 submissions, for a selection rate of 58%. Each paper was reviewed by at least three Programme Committee members and discussed during the online Programme Committee meeting. The selected papers cover a wide spectrum of topics related to system design languages and system modeling and engineering, grouped into five technical sessions. The first session is devoted to modeling for the cloud, the papers in the second session discuss notations and their semantics, while papers in the third session propose methods for the modeling and analysis of performance, safety, and realizability. Papers in session four are related to the requirement modeling notations while the last session was on collaborative modeling. In addition to the selected papers, the program of SAM 2018 included two inspiring keynotes by Dr. Azimeh Sefidcon (Ericsson, Sweden) and Professor Juergen Dingel (Queen's University, Canada).

SDL Forum Society

The SDL Forum Society is a not-for-profit organization that, in addition to running the System Analysis and Modeling (SAM) Conference series of events (once every two years), also:

- Runs the System Design Languages Forum (SDL Forum) series, every two years between SAM conference years
- Is a body recognized by ITU-T as co-developing system design languages in the Z.100 series (SDL), Z.120 series (MSC), Z.150 series (URN), and other language standards
- Promotes the ITU-T System Design Languages

For more information on the SDL Forum Society, see <http://www.sdl-forum.org>.

August 2018

Ferhat Khendek
Reinhard Gotzhein

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Furthermore, we thank the MODELS Organizing Committee for the effective support during the preparation and smooth realization of the SAM conference.

The submission and review process was run with EasyChair.org; and we thank the people behind the EasyChair conference system. We thank Springer for once again publishing the conference proceedings in their LNCS series.

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