

# Preface

## 15th System Analysis and Modelling Conference (SAM 2023)

SAM is the yearly event of the SDL Forum Society and provides a global arena for participants from academia and industry to present and discuss the most recent innovations, trends, experiences and concerns in modeling, specification, analysis, implementation, and monitoring of complex systems using ITU-T's Specification and Description Language (SDL-2010) and Message Sequence Chart (MSC) notations, as well as related system design languages — including but not limited to UML, ASN.1, TTCN, SysML and the User Requirements Notation (URN).

The main topic of this year's conference is "System Modeling and Analysis in State-of-Practice Technologies", which includes languages and methods standardized by the ITU-T as well as domain-specific languages for state-of-practice domains like artificial intelligence, digital twins, no code, low code, DataOps, and metaverse. It also focuses on software engineering technologies such as requirements engineering, software verification and validation, model checking, and automated code generation. Particular topics of interest are the evolution of languages, model-driven development, system engineering models as well as industrial application and tools.

Altogether, SAM 2023 received 25 submissions. After a strict peer reviewing process, the program committee selected ten full papers and three short papers for presentation and inclusion in the proceedings. The program and the proceedings also contain a keynote address by Ole Lehrmann Madsen from Aarhus University, Denmark, and Birger Møller-Pedersen from the University of Oslo, Norway. Further, a panel discussion is part of the conference.

Running an international conference requires an immense effort from all parties involved. In particular, we like to thank the program committee members and several other reviewers for the timely delivery of highly in-depth reviews for the submitted papers. Moreover, we appreciate the logistics support provided by the organizers of the MODELS conference as well as by IEEE. Last, but not least, we like to express our gratitude to the members of the SDL Forum Society Board for their valuable backing and helpful advice.

We hope you enjoy the proceedings and the conference.

Peter Herrmann and Stein Erik Ellevseth  
***SAM 2023 Organizers***