



Call for Papers

The [System Analysis and Modelling \(SAM\) 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, analysis, and realization 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-3, SysML and the User Requirements Notation (URN).

SAM 2024 is co-located with the 27th International Conference on Model Driven Engineering Languages and Systems ([MODELS 2024](#)) in Linz, Austria.

Scope and Topics

This year's edition of SAM will focus on "Challenges and Opportunities of Systems Modeling and Analysis in the Era of AI and the Metaverse". This includes advancements/usage of languages/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, DevOps, and metaverse. Also included are software engineering technologies, such as agile methods and development aspects, such as requirements engineering, software verification and validation, model checking, code generation, tool support and training. Authors are invited to submit papers related to this year's theme including the following non-exclusive list of topics:

- **Evolution of languages:** domain-specific languages, modular language design, semantics and evaluation, languages for artificial intelligence systems (like traditional data classification and regression systems as well as neural networks), high-level modeling languages with strong semantics to avoid and reduce coding, ModelOps to support strong interaction with IT operations and life cycle management.

- **Model-driven development:** AI-supported system modeling, agile modeling, analysis and transformation of models, approaches to reduce or avoid coding by reuse, verification and validation of models, systematic testing based on and applied to models, automated verification by model checking, approaches to increase quality and efficiency in teams like applying peer, mob and ensemble programming processes to modeling.
- **System engineering models:** semantics of system models, refinement of system designs into implementations, automated code generation, integration of system and software design models, non-functional aspects in system models (such as performance, quality of service, real-time aspects, security), creation of digital twins from models and applying hardware/software-in-the-loop to model simulation.
- **Industrial application and tools:** industrial usage reports, standardization activities, tool support and frameworks, domain-specific applicability (such as telecommunications, aerospace, automotive, Internet of Things), modeling and analysis in machine control and monitoring (e.g., IEC 61499), model-based creation of immersive web spaces (e.g., metaverse).

The conference programme will include:

- Presentations from invited speakers,
- Presentation of research papers,
- Presentation of industrial experiences,
- Tool demonstrations.

For general questions, please send an email to sam2024@easychair.org

Paper Submission

SAM 2024 welcomes academic and industrial submissions in the following categories:

- Full papers describing original, unpublished results (max 10 pages, including figures and appendices in ACM format, and up to two more pages containing only references in ACM format).
- Short papers, describing work in progress (max 6 pages, including figures and appendices in ACM format, and up to two more pages containing only references in ACM format).

Full papers should describe significant, original, and unpublished results related to but not limited to any of the SAM-related topics. Short papers are insightful contributions on SAM relevant topics such as preliminary and initial research results for which a complete evaluation has not yet been performed. We also encourage the submission of (full or short) papers that describe negative results and replication studies. These types of papers advance our knowledge by allowing us to continuously (re)evaluate our understanding of the current approaches.

Each paper submitted will be evaluated by at least three reviewers, based on significance, originality, substance, correctness, and clarity.

Best Paper Awards will be given to authors of long and short papers, which will be selected by the program committee and SAM Co-chairs among the accepted and presented papers.

Submission Instructions

The SAM 2024 proceedings are expected to be published by ACM. It is requested:

- All submissions must conform to SAM 2024 formatting instructions and must not exceed 10 pages for full papers and 6 pages for short papers (excluding references). The page limit is strict, and it will not be possible to purchase additional pages
- All submissions must be in PDF and made through the [SAM 2024 EasyChair web page](#).
- Formatting instructions are available at [ACM Proceedings Template](#) for both LaTeX and Word users. LaTeX users must use the provided *acmart.cls* and *ACM-Reference-Format.bst* without modification, enable the conference format in the preamble of the document (i.e., `\documentclass[sigconf,review]{acmart}`), and use the ACM reference format for the bibliography (i.e., `\bibliographystyle{ACM-Reference-Format}`). The review option adds line numbers, thereby allowing referees to refer to specific lines in their comments.
- By submitting to SAM2024, authors acknowledge that they are aware of and agree to be bound by the [ACM Policy and Procedures on Plagiarism](#). In particular, papers submitted to SAM 2024 must not have been published elsewhere and must not be under review or submitted for review elsewhere while under consideration for SAM 2024.

Accepted papers must be presented in person at SAM 2024 by one or more of the authors present at the conference.

Important Dates

Paper submission deadline:	June 24, 2024
Notification of acceptance:	July 29, 2024
Camera-ready version deadline:	August 19, 2024
SAM Conference:	Mon 23 - Tue 24 September 2024

General Chairs

Alois Zoitl — Johannes Kepler University Linz
Jens Grabowski — University of Göttingen

Programme Committee

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Bianca Wiesmayr	— LIT CPS Lab, Johannes Kepler University Linz
Anna Zamansky	— University of Haifa
Alois Zoitl	— LIT CPS Lab, Johannes Kepler University Linz

About the SDL Forum Society

The SDL Forum Society that runs the conference is a non-profit organization established by language users and tool providers to promote the Specification and Description Language (SDL-2010), Message Sequence Charts (MSC) and related System Design Languages (including but not limited to ASN.1, TTCN-3, SysML and URN), to provide and disseminate information on the development and use of the languages, to support education on the languages and to plan and organize the SAM conference series and events to promote the languages.