

- Impact factor: 2.0 almost no backlog (below 4 months)
- Journal-first publication track at MODELS-conference
- Now also soliciting Tool Papers (see https://sosym.org/tool_paper/)

SOFTWARE AND SYSTEMS MODELING

Software and Systems Modeling (SoSyM) is a quarterly international journal (published in English) that focuses on theoretical and practical issues pertaining to the development and application of software and system modeling languages and techniques. The aim of the journal is to publish high-quality works that further understanding of the theoretical underpinnings of modeling languages and techniques, present rigorous analyses of modeling experiences, and introduce scalable modeling techniques and processes that facilitate rigorous, efficient or economical development of software.

The journal is unique in its emphasis on theoretical foundations of modeling languages and techniques, and on rigorous analyses of "real-world" modeling experiences. The balance of theoretical works and works based on in-depth analyses of experiences offers insights to researchers that can inform future investigations into better modeling languages and techniques, and provides modeling practitioners with a deeper understanding of modeling languages and techniques that can lead to more effective application.

The journal targets researchers, practitioners and students who have a vested interest in results generated by high-quality modeling research and by rigorously analyzed modeling experiences. We invite authors to submit papers that discuss and analyze research challenges and experiences pertaining to software and system modeling languages, techniques, tools, practices and other facets. The following are some of the topic areas that are of special interest, but the journal publishes on a wide range of software and systems modeling concerns:

- Domain-specific models and modeling standards
- Model-based testing techniques
- Model-based simulation techniques
- Formal syntax and semantics of modeling languages such as the UML
- Rigorous model-based analysis
- Model composition, refinement and transformation
- Software Language Engineering
- Modeling Languages in Science and Engineering
- Language Adaptation and Composition
- Metamodeling techniques
- Measuring quality of models and languages
- Ontological approaches to model engineering
- Generating test and code artifacts from models
- Model synthesis
- Methodology
- Model development tool environments
- Modeling Cyberphysical Systems
- Data intensive modeling
- Derivation of explicit models from data
- Case studies and experience reports with significant modeling lessons learned
- Comparative analyses of modeling languages and techniques
- Scientific assessment of modeling practices

Impact Factor: 2.0 (2023), Web of Science, Clarivate

Software and Systems Modeling

Model-based development

- Languages
- Architectures
- Methods
- Tools

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Focuses on theoretical underpinnings and practical issues in the development and application of software and system modeling languages, techniques, and methods



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Article Information

SoSyM consists of several different types of articles, including the following:

- Regular papers that have open submission deadlines for all SoSyM topic areas
- Expert voices that provide reflective commentary by modeling experts (e.g., M. Broy, D. Harel, M. Jackson, C. Kobryn, and T. Reenskaug)
- Special and theme sections on state-of-the-art topics within modeling (e.g., performance modeling, human modeling, CPS, or variability)
- Survey/overview articles that systematically summarize a specific research area
- Tool Papers describing and analyzing innovative software tools and systems

If you are interested in modeling related research, SoSyM should be both:

- Excellent source for finding ideas, results etc. to build on (we also plan to increase the number of special sections in the future)
- Primary venue to publish your research results (no page charges or page limit)

Open calls for theme sections can be found at: https://www.sosym.org/theme_sections/

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