Springer

Software and Systems Modeling

Call for Papers

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Important Dates

Intent to submit	01-Mar-2027
Paper submission	30-Mar-2027
Notification	30-Jun-2027

Theme Section:
Human Factors in Modeling and Modeling of Human Factors

Software and systems are built by and for diverse people. End-users differ in personality, technical proficiency, emotional responses to software use, socio-economic status, gender, age, culture, language, abilities, and preferences. Capturing and supporting these human factors during requirements engineering and design is therefore essential for developing human-centric software systems.

At the same time, modeling is an intrinsically human endeavor. Modeling languages, notations, methods, and tools are created, used, interpreted, and evaluated by people. Their effectiveness depends on cognition, experience, communication, collaboration, emotions, well-being, and the broader social and organizational context. Consequently, many important questions about modeling and model-based engineering can only be answered through empirical research.

This theme section of the *Journal of Software and Systems Modeling* (SoSyM) invites original, high-quality research on both modeling of human factors and human factors in modeling. It aims to bring together researchers and practitioners from academia and industry to advance the understanding, representation, and support of human factors in model-based software and systems engineering.

Submissions should present novel research on human factors in modeling, modeling of human factors, or empirical methods for studying these topics. They must clearly describe their research questions, methods, results, and contributions, and situate the work in the relevant literature.

Topics

The theme section invites original, high-quality submissions focusing on, but not restricted to, topics related to Human Factors in Modeling and Modeling of Human Factors, including:

Modeling of human factors

- New theories and design principles for representing human factors information in models
- Methods and techniques for incorporating human factors into requirements, design models, and model-based tools
- Tools for capturing, modeling, organizing, and analyzing human factors information
- Modeling human aspects of stakeholders and end-users, including age, gender, personality, disabilities, preferences, emotional states, tasks, and knowledge

- Human-centric development in model-based software engineering
- Industrial experience reports on modeling human factors
- Reviews and surveys of approaches to human factors modeling

Human factors in modeling

- Usability and user experience of modeling methods, languages, notations, and tools
- Developer experience (DevX) in model-based engineering
- Emotions, feelings, moods, well-being, and motivation of modelers
- Stress, cognitive load, fatigue, and performance during modeling activities
- Model comprehension, notation design, and visualization
- Communicative and cognitive strategies and styles in modeling and design, including solution-space exploration
- Collaboration, teamwork, group behavior, social connectedness, and social translucence
- Human–AI collaboration and trust in AI-assisted modeling
- Inclusive and neurodiverse modeling
- Modeling education, training, and learning Empirical methodology
- Controlled experiments, quasi-experiments, surveys, case studies, replications, and studies reporting negative results
- Study designs, measurement approaches, threats to validity, open science, and data sharing

Relation to HuFaMo 2026

This theme section is closely linked to the International Workshop on Human Factors in Modeling / Modeling of Human Factors (HuFaMo), co-located with MODELS. It extends the discussions initiated at HuFaMo 2026 to a journal audience and welcomes submissions from all researchers and practitioners, not only workshop participants. Authors of papers accepted at HuFaMo 2026 are invited to submit substantially extended and enhanced versions of their work. Such submissions must explicitly describe their differences from the earlier version and comply with SoSyM's overlap rules for previously published work. Authors of accepted papers are encouraged to present their work at future editions of HuFaMo; details will be announced on the workshop website (https://hufamo.github.io/editions/2026/).

General Author Information

- Papers must be written in a scientifically rigorous manner with adequate references to related work.
- Submitted papers must not be simultaneously submitted in an extended form or in a shortened form to other journals or conferences. It is however possible to submit extended versions of previously published work if less than 75% of the content already appeared in a non-journal publication, or less than 40% in a journal publication. Please see the SoSyM Policy Statement on Plagiarism for further conditions.
- Submitted papers do not need to adhere to a particular format or page limit. Please consult the SoSyM author information for submitting papers for more details.
- Each paper will be reviewed by at least three reviewers.

Making a submission

- Communicate your intent to submit a paper by emailing the theme section editors the following information before the Intent to Submit deadline: Title, Authors, and an Abstract.
- Possible submission formats are:
  - Word (.doc, without macros)
  - Rich Text Format (.rtf)
  - PostScript (.ps, special fonts must be embedded)
  - PDF (saved as readable in version 5.0 or earlier)
- Submit your work using the online submission system manuscript central:
  - In step 1, select "Theme Section Paper" as the manuscript type.
  - In step 5, make sure field "Cover Letter" includes the line: "Theme Section on Human Factors in Modeling and Modeling of Human Factors".

Further information

The theme section welcomes empirical studies, including replication studies and studies with negative results; theoretical contributions; language, method, and tool contributions with appropriate evaluation; industrial experience reports with significant and transferable lessons learned; and survey articles.

Contact

If you have any questions or require additional information about this theme section, please contact the theme editors under shalini.chakraborty@uni-bayreuth.de.