Springer

Software and Systems Modeling

Call for Papers

Theme Issue:

Variability Modeling of Software Intensive Systems

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Important Dates

Intent to submit	10 Aug 14
Paper submission	10 Oct 14
First Notification	10 Dec 14

Variability management is a major challenge in the development, maintenance, and evolution of software-intensive systems. Variability modeling is a facet of system modeling, which is a very actual topic in the industry. Many modeling tool users ask for variability support. Several tool vendors have already extended their modeling tools, or are developing suitable variability extensions for their tools (Vector, Atego, IBM, Mathworks). Several industrial standards are considering extensions for variability (including AUTOSAR and SysML).

The theme focuses broadly on innovative work in the area of variability modeling and management. We particularly invite contributions with a strong variability modeling aspect, but also addressing the wider area of variability management, e.g., requirements, architecture, analysis, implementation, evolution and teaching of variability modeling. The purpose is to present new results for mastering variability throughout the whole lifecycle of systems, system families, and product lines.

The ***Journal of Software and Systems Modeling*** (SoSyM) invites original, high-quality submissions for its theme issue on “Variability Modeling of Software Intensive Systems” focusing on modeling related issues. Topics of interest include, but are not limited to:

- Variability across the software life cycle
- Separation of concerns and modularity
- Variability evolution
- Variability mining and reverse-engineering
- Feature, aspect, and service orientation
- Software configuration management and version control
- Architecture and design approaches for variability
- Software economic aspects of variability
- Visualization and management of variability
- Adaptivity at runtime and development time
- Reasoning about variability
- Analysis of models and artifacts with variability
- Programming languages and tool support
- Case studies, empirical studies and experience reports
- Teaching variability management

General Author Information

- Papers must be written in a scientifically rigorous manner with adequate references to related work, using suitable evaluation methods for claims.
- 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, but should be prepared using font "Times New Roman" with a font size no smaller than 11 pt, and with 1.5 line spacing. Please consult the SoSyM author information for submitting papers.
- Each paper will be reviewed by at least three reviewers.

Making a submission

- Communicate your intent to submit a paper by emailing the theme issue editors the following information before the Intent to Submit deadline: Title, Authors, and an Abstract. Early contact is appreciated.
- 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 and select "Dr. Bernhard Rumpe" as the "Editor-in-Chief" (EIC).
  - In step 4, add "Andrzej Wasowski" (+wasowski@itu.dk) or "Thorsten Weyer" (+Thorsten.Weyer@paluno.uni-due.de) as an editor and choose "Designate as Preferred Editor".
  - In step 5, make sure field "Cover Letter" includes the line: "Submission for Theme Issue on Variability Modeling".

Further information

If you have any questions or require additional information about this theme issue, please contact the editors.