Springer

Call for Papers

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Important Dates
Intent to submit   03 Aug 2020
Paper submission   02 Nov 2020
Notification   08 Jan 2021

Software and Systems Modeling

Theme Issue:
Model-Driven Requirements Engineering

Model-Driven Requirements Engineering (MoDRE) benefits from Model-Driven Development (MDD) techniques when properly balancing flexibility for capturing varied user needs with formal rigidity required for model transformations, as well as high-level abstraction with information richness. MoDRE seeks to explore those areas of RE that have not yet been formalized sufficiently to be incorporated into an MDD environment. MoDRE also investigates how RE models can benefit from emerging topics in the model-driven community, such as modeling for sustainability, of human values, of adaptive cyber-physical systems, as well as agile and collaborative modeling.

In light of the 10th edition of the MoDRE workshop series, it is time to take a critical look over the last ten years to consolidate the state-of-the-art and identify future challenges. Therefore, the goals of this theme issue are: (i) to analyze the strengths and weaknesses of MDD approaches for RE, (ii) to explore areas of RE where models are used and are now mature enough to be incorporated into MDD processes; (iii) to discuss how MDD techniques help address important problems of RE; and (iv) to look back at ten years of successes and failures of RE modelling techniques to better understand where to go next.

The *Journal of Software and Systems Modeling* (SoSyM) invites original, high quality submissions for its theme issue on "Model-Driven Requirements Engineering" focusing on related topics, including:

- **Modeling languages and metamodels** for RE approaches, for supporting separation of concerns in requirements models, for non-functional requirements, and for RE models in specific domains (e.g., adaptive cyber-physical systems, Big Data, AI applications, human values, or sustainability);
- **Automated analysis of requirements models and transformations involving requirements models**, e.g., for consistency of different requirements models and views, traceability and correctness purposes;
- **Requirements models at runtime** and **simulation of requirements models**;
- **Flexible and collaborative modeling in RE**;
- **Empirical studies on Model-Driven RE**;
- **Model-driven requirements engineering in industry**: industry problems and practices, success stories about adopting Model-Driven RE in industry, industrial empirical studies.

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, 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.
- 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 4, add "J. Araujo, A. Moreira, G. Mussbacher, P. Sanchez" as editor. Please make sure that the 'Recommended' radio button is checked and that you enter 'Special Section Editors' into the 'Reason' text box before pressing "Add Selected Editor(s)".
    - In step 5, make sure field "Cover Letter" includes the line: "Submission for Theme Issue on MoDRE".

Further information

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