Call for Papers

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Important Dates
Intent to submit 15 Mar 19
Paper submission 15 Jun 19
Notification 01 Sept 19

Theme Issue:
Interplay of Model-Driven and Component-Based Software Engineering

The design of modern software systems requires capabilities to properly deal with their ever-increasing complexity. To mitigate this complexity, the whole software engineering process needs to be rethought and the traditional division among development phases to be revisited. Model-Driven Engineering (MDE) and Component-Based Software Engineering (CBSE) are two orthogonal ways of reducing development complexity: MDE by shifting the focus of application development from code to models and CBSE by building the desired functionality from pre-developed components. On the one hand, an effective interplay of CBSE and MDE can help in reducing development costs and risks by: (i) enabling efficient modeling and analysis of functional as well as extra-functional properties, (ii) improving reusability through definition and implementation of components loosely coupled into assemblies, and (iii) providing automation where applicable (and favorable) in the development. On the other hand, when exploiting the interplay of MDE and CBSE, clashes arise due to misalignments in their terminology but also, and more importantly, due to differences in some of their basic assumptions and focal points.

The Journal of Software and Systems Modeling (SoSyM) invites original, high-quality submissions for its theme issue on “Interplay of Model-Driven and Component-Based Software Engineering” (ModComp) focusing on related topics, including:

- Definition, enhancement, maintenance of component models
- Component model evolution
- Partial model reuse
- Model composition
- Component versioning
- Modeling component interaction and component behaviors
- Model extraction for componentization of legacy systems
- Component interoperability
- Management and elicitation of model interdependencies
- Model transformation in presence of third-party components
- Metamodel modularity
- Composition of MDE artefacts
- Enforcement of incrementality
- State of the art and practice reviews and mappings
- Industrial experience reports and case 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 “Federico Ciccozzi” (+ federico.ciccozzi@mdh.se) 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 ModComp”.

Further information

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

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