



Springer

Call for Papers

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Important Dates

Intent to submit 01 Apr 2022

Paper submission 02 May 2022

Notification 04 Jul 2022

Software and Systems Modeling



Theme Section: **Model and Data Engineering**

In the age of "Data Science and Advanced Analytics," we are witnessing a race for developing data-driven smart systems in various domains such as business, finance, healthcare, environment, cybersecurity, etc., due to the explosion of the data issued by multiple providers. This development contributes to getting added value for companies and citizens. Two complementary ingredients are required for ensuring valuable systems: data and models. The data dimension is mainly related to Data Science that unifies machine learning, statistics, data mining, databases, and distributed systems. The achievement of this value may pass through the augmentation of input data by external resources such as Knowledge Graphs. The success of the above techniques depends on the input data quality and the consideration of other non-functional properties related to legal, ethical, and economic aspects.

On the other hand, modeling plays a crucial role in Data Science since it covers all steps of Data Science workflow. Regarding data provenance and its quality, models contribute to providing vendor-independent solutions. At the algorithmic level, models help in explaining the inner working of the used methods/algorithms to system designers, users, regulators, and citizens to achieve trust and accountability. Therefore, the success of Data Science depends on our skill to use it smartly and simultaneously exploit data and modeling capabilities.

Model and Data Engineering Conference (MEDI) provides an exciting venue for learning and reinforcing the prerequisites for designing and exploiting Valuable and Explainable Data-driven Systems and Software. MEDI was launched in 2011 and succeeded in attracting research from both data engineering and model engineering communities. Each year, MEDI invites world-known researchers from both model and data domains to give talks. In 2021, MEDI was indexed by CORE., which represents a very important event.

Last year, the MEDI conference celebrated its tenth anniversary at Tallinn, with a rich program including three keynote speakers and 8 sessions (Stepwise Modelling and Analysis, Multi-perspective Modelling, Modelling and Interactions, Machine Learning, Data Management, Blockchains, and databases and Ontologies).

This theme section celebrates the ten years of existence of MEDI by choosing [Journal of Software and Systems Modeling](#) journal that has a significant impact and importance on Software and Systems Modeling community.

For this 10th anniversary theme section for MEDI, we invite researchers on Modeling and Data engineering field to submit their recent findings that fit the MEDI conference topics with a particular interest in the central role of modeling activities on designing and exploiting data-driven valuable, and explainable systems and software.

General Author Information

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- 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

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- 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: “Submission for Theme Section on Model and Data Engineering (MEDI)”.

Further information

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