ECMFA 2020 - Preliminary Call for Papers

16th European Conference on Modelling Foundations and Applications
ECMFA 2020
Co-located with STAF 2020.
June 22-26 – Bergen, Norway
http://staf2020.hvl.no/events/ecmfa2020/

ABOUT THE CONFERENCE
Model-Based Engineering (MBE) is an approach to the design, analysis, and development of software and systems that relies on exploiting high-level models and computer-based automation to achieve significant boosts in both productivity and quality.

The European Conference on Modelling Foundations and Applications (ECMFA) is the premier European forum dedicated to advancing the state of knowledge and fostering the application of all aspects of MBE and related approaches.

In its 16th edition, ECMFA will introduce two major innovations to strengthen the scope of the community and to foster the quality of its contributions.

- First, the *International Conference on Model Transformations (ICMT)* will join forces with ECMFA, merging both into one single event that unites all aspects related to Model-Based Engineering (MBE).

- Second, a **two-phase submission and review process** is introduced, with two possible submission periods (October and February). Papers accepted in the first round will be published as soon as they are ready, and presented at the conference. Authors of papers not accepted in the first phase can resubmit improved versions of their work in the second submission phase.

This is fully aligned with the decision made last year of publishing the ECMFA accepted papers in a platinum open-access journal, namely, the *JOT* journal (http://www.jot.fm/), which is indexed by, e.g., Scopus, dblp, and Scientific Commons.

SUBMISSIONS
We are soliciting papers presenting original research on all aspects of model-based engineering. Two types of submissions are possible:

- **Foundation Papers**, dealing with modeling foundations, such as metamodeling, model transformations, model engineering methods and tools, and related aspects.

- **Application Papers**, dealing with the application of modeling techniques, including experience reports on the use of MBE methods and tools, industrial case studies, or successful applications of MBE practices in the industry or in public administrations, with significant modeling lessons learned. All applications must have been done in real contexts and at least one of the authors of the paper must be from the company or administration where the application took place.

Submissions must conform to the *JOT LaTeX template* and must not exceed 20 pages (including figures, references, and appendices). Failure to conform to these guidelines may result in disqualification of the paper. No simultaneous submission to other publication venues (either a conference or a journal) is allowed; any concurrent submission will result in the immediate rejection of the paper.

All submissions will be peer-reviewed by at least three members of the Program Committee. Contributions will be evaluated based on their suitability for the conference, originality, and technical soundness. They require novel and scientifically rigorous contributions to the field, supported by adequate evaluation results.

All papers have to be submitted electronically in PDF format through Easychair.

TOPICS OF INTEREST
Topics of interest include, but are not limited to:

- Foundations of MBE and model transformations.
- Application of MBE methods, tools, and techniques to specific domains, e.g., automotive, cyber-physical systems, robotics or IoT.
- Successful use of MBE and Model Transformations in connection with other disciplines and approaches, such as Artificial Intelligence, Blockchain, or Open Source.
- Educational aspects of MBE.
- Tools and initiatives for the successful adoption of MBE in industry.
REVIEW CRITERIA AND PROCESS

All papers will be assessed by the program committee in terms of their novelty, significance, and rigor. Applications papers will weight these factors differently than Foundations papers.

Contributions can be submitted to any of the two submission periods. Papers submitted to the first round of review can be recommended by the Program Committee to be accepted-as-is, accepted with minor revisions, undergo major revisions (and resubmit in the second round) or rejected. Recommendations for papers submitted in the second round are for accept, minor revisions or reject.

Papers accepted at any of the two rounds with minor revisions will be given a specified period of time to perform the revisions and re-submit. The same reviewers will assess how well the revision requests have been addressed by the authors, and whether the final paper maintains or improves the level of contribution of the original submission. Revisions that significantly lessen the contribution of the work or that fail to adequately address the reviewers’ original concerns will result in the paper’s rejection.

Papers not accepted in the first round can be resubmitted to the second one, indicating how they have improved the paper to address the reviewers’ criticisms. Papers not accepted in the second round but with a sufficient level of quality may be encouraged to resubmit next year, or alternatively as regular JOT articles, hence continuing their review process through the normal journal channels.

Papers will be published in the JOT journal as soon as they accepted and one of their authors registers in the conference.

ARTIFACTS

Artifacts are recommended, but not required, for the initial submission. Depending on the papers, reviewers may take the existence of artifacts as a positive signal about the work. Also depending on the papers, artifacts may be required as a condition for publication.

PUBLICATION

All accepted papers will be published as platinum open-access journal publication in JOT. At least one author for each accepted paper must register before the early registration deadline and present the paper during the conference. Failure to do so will result in the paper being withdrawn from the proceedings.

COMMITTEES

Program chairs

Richard Paige, McMaster University, Canada
Antonio Vallecillo, Universidad de Málaga, Spain

Program committee

Adrian Rutle, Western Norway University of Applied Sciences
Alessandra Bagnato, Softeam
Alfonso Pierantonio, University of L’Aquila
Andrzej Wąsowski, IT University
Andy Schuerr, Darmstadt University of Technology
Antonio Cicchetti, Mälardalen University
Arend Rensink, University of Twente
Athanasios Zolotas, University of York
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Bernhard Rumpe, RWTH Aachen University
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Carlos Cetina, Universidad San Jorge
Colin Atkison, University of Mannheim
Daniel Varro, McGill University and Budapest Univ. of Technology and Economics
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Fiona Polack, Keele University
Francis Bordeleau, Cmind Inc
Gabi Taentzer, Philips-Universität Marburg
Gerti Kappel, TU Wien
Javier Troya, University of Seville
Jean-Michel Bruel, IRIT

IMPORTANT DATES

Round 1:
* Submission: Oct 11, 2019
* Notification: Dec 13, 2019

Round 2:
* Submission: Feb 21, 2020
* Notification: April 24, 2020

Conference: 22-26 June, 2020

Jeff Gray, University of Alabama
Jennifer Horkoff, Chalmers and the Univ. of Gothenburg
Jesús Sánchez Cuadrado, Universidad de Murcia
Joel Greenyer, Leibniz Universität Hannover
Juha-Pekka Tolvanen, MetaCase
Loli Burgueño, Open University of Catalonia and CEA
Manuel Wimmer, JGU Linz
Marco Brambilla, Politecnico di Milano
Mark van den Brand, Eindhoven Univ. of Technology
Martin Gogolla, University of Bremen
Massimo Tisi, INRIA
Michalis Famelis, University of Montreal
Omar Alam, Trent University
Oystein Haugen, Ostfold University College and SINTEF
Ralf Laemmel, Universität Koblenz-Landau
Shaakat Ali, Simula Research Lab
Sahar Kokaly, University of Toronto
Sebastien Gerard, CEA, LIST
Steffen Zschaier, King’s College London
Sudipto Ghosh, Colorado State University
Tao Yue, Simula Research Lab
Thomas Kuehne, Victoria University of Wellington
Toni Clark, Aston University
Vasco Amaral, Universidade Nova de Lisboa
Zhenjiang Hu, Peking University
Zinovy Diskin, McMaster Univ. and Univ. of Waterloo