ECMFA 2014: Call for Papers

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 ECMFA conference series is dedicated to advancing the state of knowledge and fostering the industrial application of MBE and related approaches. Its focus is on engaging the key figures of research and industry in a dialog which will result in stronger and more effective practical application of MBE, hence producing more reliable software based on state-of-the-art research results.

ECMFA 2014 will be co-located with ICMT, TAP, ICGT and TTC as part of the STAF federation of leading conferences on software technologies (http://stafconferences.info). The joint organisation of these prominent conferences provides a unique opportunity to gather practitioners and researchers interested in all aspects of software technology, and allow them to interact with each other.

Contributions

ECMFA has two distinct Paper Tracks: one for research papers (Track F) dealing with the foundations for MBE, and one for industrial/applications papers (Track A) dealing with the applications of MBE, including experience reports on MBE tools.

Research Papers (Track F)

In this track, we are soliciting papers presenting original research on all aspects of MBE. Typical topics of interest include, among others:

- Foundations of (Meta)modelling

- Domain Specific Modelling Languages and Language Workbenches

- Model Reasoning, Testing and Validation

- Model Transformation, Code Generation and Reverse Engineering

- Model Execution and Simulation

- Model Management aspects: (Co-)Evolution, Consistency, Synchronization,…

- Model-Based Engineering Environments and Tool Chains

- Foundations of Requirements Modelling, Architecture Modelling, Platform Modelling

- Foundations of Quality Aspects and Modelling non-functional System Properties

- Scalability of MBE techniques

- Collaborative Modeling

Industrial Papers (Track A)

In this track, we are soliciting papers representing views, innovations and experiences of industrial players in applying or supporting MBE. In particular, we are looking for papers that set requirements on the foundations, methods, and tools for MBE. We are also seeking experience reports or case studies on the application, successes or current shortcomings of MBE. Quantitative results reflecting industrial experience are particularly appreciated. All application areas of MBE are welcomed including but not

limited to any of the following:

- MBE for Large and Complex Industrial Systems

- MBE for Safety-Critical Systems

- MBE for Health Care

- MBE for Cloud and Mobile Computing

- MBE for Software and Business Process Modelling

- Comparative Studies of MBE Methods and Tools

- Metrics for MBE Development

- MBE Training

Submission and selection

Manuscripts for both tracks must be submitted as PDF files through the EasyChair online submission system: https://www.easychair.org/conferences/?conf=ecmfa2014. Please ensure that you submit to the right track!

Research papers should be up to 16 pages long; Industrial papers should be 12 pages long. In both cases, papers must be compliant with the LNCS paper style (see http://www.springer.de/comp/lncs/authors.html). Failure to conform to these guidelines may result in disqualification of the paper. In particular, papers longer than the maximum number of pages may be automatically rejected without review.

All contributions will be subject to a rigorous selection process by the Program Committee. No simultaneous submission to other publication outlets (either a conference or a journal) is allowed; any concurrent submission will result in the immediate rejection of the paper.

As in previous years, the proceedings of the conference with the accepted papers of both Tracks will be published in a dedicated Springer LNCS volume. If accepted, one of the authors must attend the ECMFA 2014 conference and present the work in person.

Important dates

- Abstract submission deadline: January 28, 2014

- Papers submission deadline: February 4, 2014

- Notification to authors: March 11, 2014

Programme committee chairs

- **Foundations track:** Jordi Cabot, INRIA – École des Mines de Nantes, France
- **Applications track:** Julia Rubin, IBM Research - Haifa, Israel