16th International MODELS Conference: Model Driven Engineering Languages and Systems

September 29th – October 4th 2013   *Miami, Florida USA*

General Chairs
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Demonstration Chairs
Yan Liu, *Pacific Northwest National Lab*
Steffen Zschaler, *King's College London*

Poster Chairs
Sudipto Ghosh, *Colorado State University*
Benoit Baudry, *INRIA/IRISA*

ACM Student Research Competition Chairs
Ethan Jackson, *Microsoft Research*
Davide Di Ruscio, *University of L'Aquila*

Publicity Chairs
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Social Media Chairs
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MODELS 2013 Invitation

MODELS 2013 will continue the MODELS history in providing the top forum for researchers and practitioners to meet and share experiences in software and systems modeling. Traditional events (e.g., Foundations/Applications track papers, Workshops, Tutorials, and Panels) will represent key venues for disseminating novel ideas in modeling research. For the 2013 conference, Demonstrations and Poster sessions will be formalized, along with the first year of the ACM Student Research Competition at MODELS!

In 2013, MODELS will take place in the midst of Miami's most popular beach area. As the 5th largest urban city in the USA, Miami is a major hub for culture, entertainment, arts, and fashion (e.g., the famous "South Beach" area). Miami has recently been named one of the USA's cleanest cities and most walkable cities. With over 14 universities and colleges in the area, Miami also is a recognized center for education and research. We invite you to join us at this international conference and to help shape the modelling methods and technologies of the future!

For more details (available early-November, 2012):
http://modelsconference.org/

Important Dates

Foundations and Applications Track Papers
Submission: March 4, 2013 (Abstract)   March 14, 2013 (Paper)
Author Response: May 8, 2013   Notification: May 30, 2013

Tutorial and Workshop Proposals
Submission: March 4, 2013   Notification: April 1, 2013

Posters and ACM Student Research Competition
Submission: July 15, 2013   Notification: August 23, 2013

Doctoral and Educators Symposia
Submission: July 15, 2013   Notification: August 23, 2013

Demonstrations
Submission: July 15, 2013   Notification: August 23, 2013

Student Volunteers
Application: July 15, 2013   Notification: August 23, 2013

Sponsored by:
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With its 16th anniversary, this year's MODELS research community is challenged to demonstrate the maturity and effectiveness of model-driven engineering in established application domains like business information or embedded systems, as well as explore its limits, by investigating new applications areas and combinations with other emerging technologies, such as cyber-physical systems, semantic web, and cloud computing. To provide a broader forum for reporting on scientific progress, as well as experiences and issues stemming from practical application of model-based methods, the conference has two distinct tracks, a Foundations Track and an Application Track, each looking for specific papers.

Foundations Track

Technical Papers describing original scientifically rigorous solutions to significant model-based development problems. A technical paper should clearly describe the problem addressed, the relevant state of the art, the scientifically-founded solution, and the benefits of the contribution. Appropriate examples, synthetic or otherwise, should be used to explain all aspects of the proposed contribution.

Exploratory papers describing new, non-conventional model-based development research positions or approaches. These papers should challenge the status-quo and describe solutions that are based on new ways of looking at model-based development problems and solutions. They must clearly describe the inadequacies in the current state-of-the-art and rigorously present their approach, clearly demonstrating its pertinence and correctness.

Applications Track

Application papers providing a realistic and verifiable picture of the current state-of-the-practice in model-based engineering and explore the problems encountered by the industrial adoption of model-based techniques. Contributions should describe and analyze the application of model-based techniques to industrial problems, preferably identifying shortcomings, innovative solutions, and concepts arising from practical deployment of tools and techniques.

Empirical Evaluation Papers evaluating existing problem cases or scientifically validating proposed solutions through, for example, empirical studies, experiments, case studies, or simulations. The topic of the evaluation presented in the paper must be clearly stated. The research method must be sound and appropriate.

Topics of interest include but are not limited to:

- Model-based development and its proven effectiveness
- Development and use of domain-specific modeling languages
- Evolution of general-purpose modeling languages and related standards
- Definition of the syntax and semantics of modeling languages
- Tools and meta-tools for modeling languages and model-based development
- Model composition and metamodel composition
- Definition and usage of model transformations and generative approaches
- Support for legacy issues and evolution of models
- Proposals of new model quality assurance techniques: analysis, testing, model checking, verification and validation
- Model-based development and cyber-physical systems
- New methodologies/frameworks/processes for model-based development
- Development of systems engineering and modeling-in-the-large concepts
- Integration of modeling languages and tools: hybrid multi-modeling approaches
- New modeling paradigms and formalisms
- Modeling in, and for, the Cloud

Evaluation and Submission Process

For detailed comments about the evaluation process and specific instructions for submission, as well as details about other opportunities at MODELS (e.g., Workshops, Tutorials, Demonstrations, Posters, ACM SRC, and various Symposia), please visit the MODELS 2013 webpage starting in early November 2012.