MODELS 2014 VALENCIA

IEEE/ACM 17th International Conference on Model Driven Engineering Languages and Systems

September 28th – October 3rd 2014 — Valencia, Spain

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MODELS 2014 Invitation

MODELS (formerly the UML series of conferences) is the premier conference series for model-based software and systems engineering which since 1998 has been covering all aspects of modeling, from languages and methods to tools and applications. In 2014, MODELS will take place in Valencia, which is one of the most cosmopolitan and open cities in Europe, widely known for its superb weather, food and hospitality.

Valencia is Spain's third largest metropolitan area with facilities to accommodate visitors attracted to the city from countries all over the world each year. With 14 technology institutes, a broad network of infrastructures and industries, and an academic system formed by 7 universities and their business parks, Valencia also is a recognized center for education and research. We invite you to join us at this conference and to help shape the modeling methods and technologies of the future!

http://modelsconference.org/
(available early December 2013)

Important Dates

Foundations and MDE in Practice Track Papers
Submission: March 13, 2014 (Abstract)   March 20, 2014 (Paper)
Author Response: May 14, 2014   Notification: June 4, 2014

Tutorial and Workshop Proposals
Submission: March 13, 2014   Notification: April 13, 2014

Posters and ACM Student Research Competition
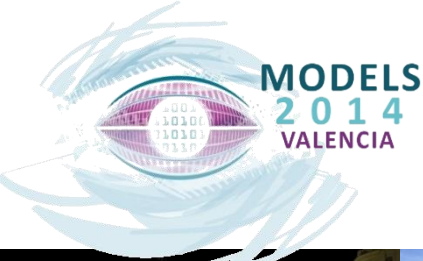Submission: July 11, 2014   Notification: August 22, 2014

Demonstrations
Submission: July 11, 2014   Notification: August 22, 2014

Doctoral and Educators Symposia
Submission: July 11, 2014   Notification: August 22, 2014

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Modeling is fundamental to all scientific and engineering endeavors and the MODELS conference series has been making its use for software and systems engineering the center of its attention since 1998. While significant advances have been made, the rapid pace of change in the way software is built and used makes it challenging to identify fundamental and enduring concepts and principles. MODELS'14 challenges the research community to *promote the magic of modeling* by solidifying and extending the foundations and successful applications of modeling in established areas such as business information and embedded systems. Moreover, MODELS'14 is particularly interested in the use of modeling for new and emerging systems, paradigms, and challenges including cyber-physical systems, cloud computing, services, social media, security, and open source. MODELS'14 seeks submissions to two tracks:

Foundations Track
The objective of the Foundations Track is to provide a forum for the exchange and discussion of new ideas, results, and insights that can advance the state-of-the-art in modeling for software and systems engineering. The following types of submissions are sought:
- **Technical Papers** describing original scientifically rigorous solutions to significant model-driven development problems.
- **Exploratory Papers** describe new, non-conventional model-driven development research positions or approaches.
- **Empirical Evaluation Papers** assessing existing problem cases or scientifically validating proposed solutions through, e.g., empirical studies, experiments, case studies, or simulations.
- **Modeling Pearls** are polished, elegant, instructive, and entertaining examples and case studies of modeling and model-based development techniques.

Model-driven Engineering in Practice Track
The objective of the Model-driven Engineering in Practice (MEIP) Track is to provide a forum for researchers and practitioners to discuss innovations and solutions to concrete software modeling problems. MEIP will be composed of invited speeches and industry-strength paper presentations with high take-away value for practitioners in model-driven engineering. We invite authors to submit:
- **Original experience reports and case studies:** Each paper should provide clear take-away value by describing the context of a problem of practical, industrial importance and application. The paper should discuss why the solution of the problem is innovative, effective, or efficient and what likely industrial impact it has or will have; it should provide a concise explanation of the approach, techniques, and methodologies employed, and explain the best practices that emerged, tools developed, and/or software processes involved.

Topics of interest include but are not limited to:

- Development, use, evolution of domain-specific modeling languages
- Evolution of general-purpose modeling languages and related standards
- Definition of the syntax and semantics of modeling and model transformation languages
- Tools and meta-tools for modeling languages and model-based development
- Definition, usage, and analysis of model transformations and generative approaches
- Integration of modeling languages and tools

- Quality assurance for models and model transformations
- Development of systems engineering and modeling-in-the-large concepts
- New modeling paradigms and formalisms
- New applications, approaches, frameworks, or processes for model-based development
- Modeling with, and for, new and emerging systems and trends such as cyber-physical systems, cloud computing, systems engineering, social media, devices and services, open source software
- Modeling for new development challenges such as security, interoperability, energy efficiency

For more details:
For these and other participation opportunities, please visit the MODELS 2014 webpage starting in early December 2013.