# ACM/IEEE 13th International Conference on Model Driven Engineering Languages and Systems
## Oslo, Norway    October 3–8, 2010

**Conference Chairs:**
Øystein Haugen, Norway
Birger Møller-Pedersen, Norway

**Program Chairs:**
Dorina Petriu, Canada (Foundations)
Nicolas F Rouquette, USA (Applications)

**Workshop Chairs:**
Juergen Dingel, Canada
Arnor Solberg, Norway

**Tutorial Chair:**
Stein Krogdahl, Norway

**Doctoral Symposium Chair:**
Bernhard Schätz, Germany

**Educator Symposium Chairs:**
Peter Clarke, USA
Martina Seidl, Austria

**Panel Chair:**
Thomas Kuehne, New Zealand

**Steering Committee Chair:**
Heinrich Hussmann, Germany

**Publicity Chairs:**
Arne J Berre, Norway
Franck Fleurey, Norway

**Important Dates:**

*Foundations and Applications Papers:*

*Abstract*: **April 18**, 2010, 23:59 (UTC+12)

*Full Paper*: **May 3**, 2010, 23:59 (UTC+12)

*Workshop Proposals*: March 31, 2010

*Tutorial Proposals*: April 18, 2010

### Foundations Track Program Committee:

| | |
|---|---|
| Daniel Amyot | Gabor Karsai |
| K. Balasubramanian | Jörg Kienzle |
| Don Batory | Ingolf Krüger |
| Benoit Baudry | Thomas Kühne |
| Behzad Bordbar | Jochen Küster |
| Ruth Breu | Yvan Labiche |
| Lionel Briand | Ralf Laemmel |
| Jean-Michel Bruel | Michaël Lawley |
| Jordi Cabot | Timothy C. Lethbridge |
| Michel Chaudron | Tom Maibaum |
| Tony Clark | Radu Marinescu |
| Vittorio Cortellessa | Dragan Milicev |
| Krzysztof Czarnecki | Birger Møller-Pedersen |
| Juan de Lara | Ana Moreira |
| Jens Dietrich | Pierre-Alain Muller |
| Juergen Dingel | Ileana Ober |
| Stephane Ducasse | Iulian Ober |
| Keith Duddy | Richard Paige |
| Gregor Engels | Robert Pettit |
| Franck Fleurey | Alfonso Pierantonio |
| Robert B. France | Claudia Pons |
| David Frankel | Ivan Porres |
| Lidia Fuentes | Gianna Reggio |
| Dragan Gasevic | Arend Rensink |
| Geri Georg | Ralf Reussner |
| Sébastien Gérard | Bernhard Rumpe |
| Sudipto Ghosh | Bernhard Schätz |
| Holger Giese | Andy Schürr |
| Tudor Gîrba | Bran Selic |
| Martin Gogolla | Michał Śmiałek |
| Susanne Graf | Arnor Solberg |
| Vincenzo Grassi | Perdita Stevens |
| Jeff Gray | Paul Strooper |
| John Grundy | Tarja Systä |
| Esther Guerra | Gabriele Taentzer |
| Jun Han | Juha-Pekka Tolvanen |
| Øystein Haugen | Laurence Tratt |
| Zhenjiang Hu | Antonio Vallecillo |
| Heinrich Hussmann | Dániel Varró |
| Paola Inverardi | Eelco Visser |
| Jan Jurjens | Andrzej Wasowski |
| Audris Kalnins | Jon Whittle |
| Gerti Kappel | Andreas Winter |

## The MODELS Conference Series

… is devoted to model-based development for software and systems engineering, covering all categories of modeling languages, methods, tools, and their applications. Engineering models have long been used in the development of complex systems and the approach is also becoming more prevalent in the design of modern software systems. Methodologies and tools are emerging and applied successfully in practice. They create and manipulate such models starting with the earliest phases of development through to implementation and testing.

The MODELS series of conferences is the premier venue for the exchange of innovative technical ideas and experiences relating to model-based approaches in the development of complex systems. 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 2010 conference has two distinct tracks:

• The Foundations Track

• The Applications Track

Papers in each track will be evaluated by separate program committees based on criteria appropriate to that track. All accepted submissions of both the Foundations and Application tracks will be published as one conference proceedings in the Lecture Notes in Computer Science (LNCS).

### Call for papers - *The Foundations Track*

Over the years model-based development has gained rapidly increasing popularity across various engineering disciplines. Numerous efforts resulted in the invention of concepts, languages, and tools for the definition, analysis, transformation, and extension of domain-specific modeling languages as well as general-purpose modeling language standards. Problems in this domain span multiple disciplines and have to be addressed by collaborative research activities spanning domains such as industrial automation, business engineering, hardware/software co-design, real-time system development, Web 2.0 application design, and so forth. A primary objective of the Foundations track of MODELS is to build a forum for exchange and discussion of new research results dedicated to advancing the state-of-the-art of model-based development in general. Topics of interest include but are not limited to:

- • Development of domain-specific modeling languages
- • Design 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
- • Definition and usage of model transformation and generation approaches
- • New methodologies/frameworks/processes for model-driven development
- • Development of systems engineering and modeling-in-the-large concepts
- • New model quality assurance techniques (analysis, testing, verification)
- • Integration of modeling languages and tools (hybrid multi-modeling approaches)
- • Evolution of modeling languages and models
- • New modeling paradigms and formalisms

### Submission Process

The paper length is limited to 15 pages. Paper submission must conform to the Springer LNCS formatting guidelines (see http://www.springer.com/computer/lncs).

All submissions must be original, unpublished, and not submitted simultaneously for publication elsewhere. They will undergo a thorough review process by a track-specific committee comprising leading experts from academia and industry; however, papers that are too long or violate the LNCS formatting instructions will be rejected.

The reviews of the papers will be provided to the authors around June 17, 2010 and authors will have 48 hours to submit an optional response limited to 500 words for the purpose of clarification, correction, or answering questions asked by the reviewers. Responses will be taken into account during the PC meeting.

Accepted papers will be published in the conference proceedings by Springer in the LNCS series. Authors of best papers from the conference will be invited to revise and submit extended versions of their papers for a special issue of the Journal on Software and Systems Modeling (Springer Press). For further details concerning the submission process consult http://www.modelsconference.org/.

# MODELS
# OSL 2010

*(Please see reverse side for details about the Applications Track)*

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Patrick Albert
Robert Baillargeon
Edward Barkmeyer
Mariano Belaunde
Rao G Bhaskar
Conrad Bock
Behzad Bordbar
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Murray Cantor
Tony Clark
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Mark Linehan
Nikolai Mansourov
Neno Medvidovic
Stephen Mellor
Ed Merks
Dragan Milicev
Hiroshi Miyazaki
Juan Carlos Molina Udaeta
Pierre-Alain Muller
Syed Salman Qadri
Nicolas Rouquette
Ina Schieferdecker
Ed Seidewitz
Bran Selic
Richard Soley
Ingo Stürmer
Jun Sun
Francois Terrier
Laurence Tratt
Markus Voelter
Michael von der Beeck
Ben Watson
Thomas Weigert
Frank Weil
Jon Whittle
Ed Willink

## Call for papers -
### The Applications Track

As with any emerging technical discipline, model-based engineering approaches to software and system development give rise to a unique set of challenges related to practical application. These include a very diverse list of issues such as problems of scaling to multi-domain and geographically distributed teams, difficulties of integrating new methods and tools into legacy environments, resistance to culture change, and coping with immature technologies. Nevertheless, there are numerous practical examples of industrial application of model-based engineering in which such problems have been overcome, resulting in successful systems that clearly demonstrate the viability and the advantages of model-based methods. Unfortunately, there is still insufficient awareness among many practitioners of such results and the potential of these methods for delivering major increases in productivity and product quality.

A primary objective of the MODELS applications track is to provide a realistic and verifiable picture of the current state-of-the-practice of model-based engineering. In addition to such experience reports, papers that describe innovative solutions and concepts stemming from practical application of model-based methods and tools in industrial, business and science-driven settings are deemed highly relevant to this track. Topics of interest include but are not limited to:

• Introducing model-based approaches into organizations
• Experience stories in general (successful and unsuccessful)
• How to scale modeling to large combinations of users, viewpoints or workflows
• Issues related to limitations, gaps and mismatches in current modeling standards
• Engineering and managing sets of modeling languages
• Integrating models into business environments such as development or sales
• Experience with model-based engineering tools and traceability to/from models

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### About Oslo and the conference locations

Oslo, capital of Norway, is located in the center of Scandinavia and is bounded by the fjord and forested hills, providing stunning scenery. The woods around Oslo are easily accessible by metro, and the city itself offers many outdoor cafes and pedestrian areas near the city center and along the waterfront. Most sites and museums are easily accessible by short walks or metro rides (see http://www.visitoslo.com/en). Early October in Oslo is a time of cool, crisp weather that is generally sunny and clear.

The conference site is Oslo Congress Centre (http://www.oslokongressenter.no/) in the very heart of Oslo, with all hotels within walking distance.

*(Please see reverse side for details about the Foundations Track)*

# MODELS
# OSLO
# 2010