

Conference Chair

Thomas Kühne

Local Chairs

Stuart Marshall

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Colin Atkinson

Doctoral Symposium Chair

Jörg Evermann

Ivan Porres

Educators' Symposium Chair

Marion Brandsteidl

Andreas Winter

Publicity Chair

Werner Heijstek

Important Dates

Abstracts April 18, 2011

Full paper May 3, 2011

Authors get access to reviews

June 20, 2010

Authors' response (optional)

Within 48 hours of getting access to reviews

Notification July 5, 2011

Camera-ready July 18, 2011

All deadlines are hard. No extensions will be allowed. (All dates are according to time zone UTC-12.)

Foundations Track Program Committee

| | |
|--------------------|-----------------------|
| Daniel Amyot | Paola Inverardi |
| Colin Atkinson | Jan Jürjens |
| Joanne M. Atlee | Shmuel Katz |
| Don Batory | Gerti Kappel |
| Benoit Baudry | Gabor Karsai |
| Paulo Borba | Jörg Kienzle |
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| Michel Chaudron | Timothy C. Lethbridge |
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| Gregor Engels | Mauro Pezzè |
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| Robert France | Alfonso Pierantonio |
| Sébastien Gérard | Ivan Porres |
| Holger Giese | Nicolas Rouquette |
| Martin Glinz | Bernhard Rumpe |
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| Zhenjiang Hu | Steffen Zschaler |
| Heinrich Hussmann | |

MODELS is the premier venue for the exchange of innovative ideas and experiences of model-based approaches in the development of complex systems. Since 1998, MODELS has provided a broad forum for reporting scientific progress as well as experiences stemming from practical application of model-based methods. MODELS is a highly selective conference, with an acceptance rate averaging twenty per cent in recent years.

The conference series covers all aspects of model-based development for software and systems engineering, including modeling languages, methods, tools, and their applications. Engineering models have long been used in the development of complex systems and the approach is becoming more prevalent in the design of modern software systems.

The theme for MODELS 2011 is **Modeling in 2020**. The theme has been selected to encourage fresh thinking about the future role of modeling in complex systems engineering. We would like to encourage 'outside the box' thinking; to this end, MODELS 2011 solicits, in addition to the usual foundations and applications papers, special vision papers as part of the Foundations Track (see below). We also particularly welcome submissions with an interdisciplinary perspective.

The 2011 conference has two distinct tracks:

- Foundations track: See below
- Applications track: See back of this flyer

Papers in each track will be evaluated by separate program committees based on criteria appropriate to that track. All accepted papers in both the Foundations and Applications tracks will be published as a single conference proceedings in the Lecture Notes in Computer Science. Calls for workshops, tutorials, educators and doctoral symposium are also available from <http://www.modelsconference.org>

Call for Papers: The Foundations Track

The primary objective of the Foundations Track is to provide a forum for original scientific research on model-based methods for software and systems engineering. Papers submitted to the Foundations Track should describe original, high quality, unpublished research of a standard suitable for a major international conference. Regular papers in the Foundations Track should document theoretical, empirical and/or conceptual research that has been thoroughly and systematically evaluated. Vision papers in the Foundations Track should describe radical new ideas and, although they are not held to the same standard of evaluation, should provide enough evidence to assess their validity. The MODELS organizers solicit papers on any topic of modeling for software and systems engineering, including, but not limited to:

- | | | | |
|-----------------------------|--------------------------------|------------------------------------|-----------------------------------|
| - Architecture and Design | - Methodologies/Processes | - Model-Based Testing | - Runtime Models |
| - Aspect-Oriented Modeling | - Model Analysis | - Models in Software Product Lines | - Security Models |
| - Business Process Modeling | - Model Composition/Versioning | - Models in User Interfaces | - Semantics of Modeling Languages |
| - Domain-Specific Modeling | - Model Consistency | - Multi-View Modeling | - Standards |
| - Empirical Assessment | - Model Evolution | - Object Constraint Language | - Systems Engineering |
| - Formal Verification | - Model Execution | - Ontologies/Semantic web | - Tools |
| - Generative Programming | - Model Quality | - Profiles | - Traceability |
| - Metamodeling | - Model Transformation | - Requirements Models | |

Paper Types

We solicit two types of papers in the Foundations Track. Regular papers should describe innovative and significant original research relevant to the MODELS scope, as defined above. Vision papers are intended to challenge the status quo by either: presenting new technical ideas that depart from standard practice, providing new evidence that common wisdom should be challenged, or applying models to radically new application areas. Whilst research papers are expected to have a solid and complete evaluation, vision papers will primarily be assessed based on their level of originality and potential for impact on the field in terms of promoting fresh thinking.

How to Submit

Papers for consideration should not have been published or be currently under review elsewhere. In the case of dispute, Springer's Policy on Publishing Integrity will be followed. Paper submissions must conform to the Springer LNCS formatting guidelines. Regular papers are limited to 15 pages in length. Vision papers are limited to 10 pages in length. These page limits include all text, references, figures, appendices and annexes. The title of vision papers MUST be preceded by "Vision Paper:". All submissions must be written in English. Submissions must be in PDF format. **Any submission that does not conform to the page limits or formatting instructions will be desk rejected without review.** Papers must be submitted electronically through CyberChairPRO. Accepted papers (both regular and vision) 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).

Review and Evaluation Criteria

All papers will be thoroughly reviewed by at least three members of the Foundations Track Program Committee. Both types of papers will be assessed based on originality, rigour, presentation and comparison to related work. Regular papers will additionally be assessed based on evaluation. Vision papers will also be assessed based on potential 'game changing' impact. Although vision papers are not expected to have an evaluation as thorough as that for a research paper, preliminary investigations that provide evidence to support the ideas are particularly welcome. The review process will include an Author Response phase (see to the left for dates). Reviews will be provided to authors who will then have 48 hours to prepare a short (500 word) optional response. The response is to be used for the purpose of clarification, correction or to respond to questions asked by the reviewers. Author responses will be used in the decision making process. Authors should, however, be realistic in their expectations of the Author Response phase: reviews cannot be updated to reflect the author response and it is likely that only decisions on borderline papers will be affected (in 2010, decisions on 9 out of 43 borderline papers were changed as a result of the author response).

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Applications Track Program Committee

| | |
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| Patrick Albert | Dragan Milicev |
| Robert Baillargeon | Hiroshi Miyazaki |
| Edward J. Barkmeyer | Juan Carlos |
| Balbir Barn | Molina Udaeta |
| Mariano Belaunde | Syed Salman Qadri |
| Jorn Bettin | Ina Schieferdecker |
| Rao Bhaskar | Bran Selic |
| Behzad Bordbar | Richard Soley |
| William Cook | Ingo Stürmer |
| Diarmuid Corcoran | Jun Sun |
| Huascar Espinoza | Francois Terrier |
| Geri Georg | Laurence Tratt |
| Jack Greenfield | Michael |
| Pavel Hruby | von der Beeck |
| Narendra Jussien | Thomas Weigert |
| Vinay Kulkarni | Frank Weil |
| Stephen J. Mellor | Ed Willink |

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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.

The objectives of the MODELS applications track are to provide a realistic and verifiable picture of the current state-of-the-practice of model-based engineering and to provide a forum where the problems encountered by the industrial adoption of model driven techniques can be explored. The Applications Track seeks articles that describe and analyse the application of model driven techniques to industrial case studies that describe innovative solutions and concepts arising from practical deployment of tools and techniques, and that describe industrial problems that can help shape the model driven research agenda. Topics of interest include but are not limited to:

- *Introducing model-based approaches into organizations.*
- *Application, technology and methodology case studies (successful and unsuccessful).*
- *Issues of scalability (model size, user group size, viewpoint size etc.)*
- *Limitations, gaps and mismatches in current modeling standards.*
- *Industrial scale model management.*
- *Economic issues of model driven development.*
- *Achieving industrial quality benchmarks with model driven development.*
- *Industrial requirements for domain specific modelling.*
- *Visions for industrial strength model driven engineering.*

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Review and Evaluation Criteria

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