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Models in Software Engineering

Workshops and Symposia at MODELS 2010
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Reports and Revised Selected Papers



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Preface

The MODELS series of conferences is the premier venue for the exchange of innovative technical ideas and experiences relating to model-driven approaches in the development of software-based systems. Following the tradition of previous conferences, MODELS 2010 hosted several satellite events in Oslo during the three days before the main conference. There were two MODELS symposia and 12 MODELS workshops:

- Doctoral Symposium
- Educators’ Symposium
- Model-Based Architecting and Construction of Embedded Systems (ACES-MB)
- Aspect-Oriented Modeling (AOM)
- Equation-Based Object-Oriented Modeling Languages and Tools (EOOLT)
- Model-Driven Interoperability (MDI)
- Models and Evolution (ME)
- Models@run.time
- Model-Driven Engineering, Verification and Validation (MoDeVVa)
- Multi-paradigm Modeling: Concepts and Tools (MPM)
- Non-functional System Properties in Domain-Specific Modeling Languages (NFPinDSML)
- OCL and Textual Modeling
- Quality of Service-Oriented Software Systems (QUASOSS)
- Model-Based Engineering for Robotics (RoSym)

In addition, the MODELS 2010 satellite event program included two industry-oriented events (*Project Presentations* and *Industry Track*), four Tutorials (*DSL1*, *DSL2*, *Methods and Tools*, and *Eclipse/EMF*), and one MODELS co-located event (*The 6th Workshop on System Analysis and Modelling (SAM 2010)*).

New this year was a more flexible organization of the satellite events which allowed and encouraged participants to move around and create their own customized MODELS 2010 satellite event program. For example, participants could follow a session of a workshop, then shift to another session of another workshop or participate in a tutorial or follow some presentations of the Industry Track or Project Track. During the satellite events there were up to eight parallel sessions. This flexibility was received very well, and we believe it helped create a setting which offered something interesting to attend for everybody at any point in time.

MODELS 2010 had a record number of more than 400 attendees, of which about 350 attended the satellite events. The workshops and symposia provided a collaborative forum for groups of participants to exchange recent and/or preliminary results, to conduct intensive discussions on a particular topic, or to

coordinate efforts between representatives of a technical community. The discussions were lively and the attendance was high.

These proceedings include the selected best papers of the MODELS workshops and symposia. Fourteen MODELS workshop proposals were submitted. The selection of workshops was performed by the Workshop Committee which consisted of the following experts:

- Juergen Dingel, Queen’s University, Canada (Co-chair)
- Arnor Solberg, SINTEF, Norway (Co-chair)
- James Bieman, Colorado State University, USA
- Jean-Marc Jézéquel, INRIA, France
- Alexander Pretschner, TU Kaiserslautern, Germany

The focus of the Educators’ Symposium was on sharing experience related to teaching modeling techniques and on developing resources to support effective training of future practitioners of model-driven development.

The Doctoral Symposium provided a forum in which PhD students could present and get feedback on their work in progress. The symposium fostered the role of MODELS as a premier venue for research in model-driven engineering. The symposium provided the students with independent and constructive feedback about their already completed work and more importantly their planned research work.

The organizers of the 12 workshops and the two symposia invited the authors of the selected best papers to revise and extend their papers for publication in these proceedings. The selected papers went through two rounds of reviews before being included in the proceedings. Each workshop and symposium also provided a summary of the event; these summary reports are included in these proceedings.

We would like to thank everyone involved in making the satellite events highly successful, especially the organizers of the satellite events, the members of the Workshop Committee, the General Chair, Øystein Haugen, the chair of the MODELS Steering Committee Heinrich Hussmann and last, but not least, all the active participants.

February 2011

Juergen Dingel
Arnor Solberg

Organization

Sponsoring Institutions

ACM

IEEE

SINTEF

Department of Informatics, University of Oslo

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