



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

4th International Workshop on Multi-Paradigm Modeling - MPM'10

Organizing Committee

Vasco Amaral, [Universidade Nova de Lisboa](#)
Hans Vangheluwe, [McGill University](#)
Cécile Hardebolle, (publicity) [Supélec](#),
László Lengyel, (website) [Budapest Univ. of Technology and Economics](#)

Steering Committee

Juan de Lara, [U. Autonoma de Madrid](#)
Gabor Karsai, [Vanderbilt University](#)
Pieter J. Mosterman, [The MathWorks Inc.](#)
Tihamér Levendovszky, [Vanderbilt Univ.](#)

Programm Committee

Antonio Vallecillo, [Universidad de Málaga](#)
Chris Paredis, [Georgia Tech](#)
Christophe Jacquet, [Supélec](#)
Didier Buchs, [University of Geneva](#)
Dirk Derudder, [Free University of Brussels](#)
Esther Guerra, [U. Carlos III de Madrid](#)
Frédéric Boulanger, [Supélec](#)
Franck Fleurey, [SINTEF](#)
Gabriela Nicolescu, [Polytechnique Montréal](#)
Gergely Mezei, [Budapest U. of Technology and Economics](#)
Hessam Sarjoughian, [Arizona State Univ.](#)
Holger Giese, [Hasso-Plattner-Institut](#)
Jeff Gray, [University of Alabama](#)
Jonathan Sprinkle, [University of Arizona](#)
José Luis Martín, [U. Complutense de Madrid](#)
J.P.M Voeten, [Eindhoven University of Technology](#)
Laurent Safa, [Silver Egg Technology](#)
Levi Lúcio, [University of Luxembourg](#)
Luís Pedro, [D'Auriol Assets](#)
Mamadou K. Traoré, [FR Sciences et Technologies](#)
Manuel Wimmer, [Vienna Univ. of Technology](#)
Mark Minas, [U. of the Federal Armed Forces](#)
Martin Toerngren, [KTH Royal Institute of Technology](#)
Matteo Risoldi, [University of Geneva](#)
Mirko Conrad, [The MathWorks](#)
Pieter van Gorp, [Eindhoven U. of Technology](#)
Peter Bunus, [Linköping University](#)
Reiko Heckel, [University of Leicester](#)
Stefan Van Baelen, [Katholieke Universiteit Leuven](#)
Thomas Feng, [Oracle](#)
Thomas Kuhne, [Victoria Unive. of Wellington](#)

Scope of the Workshop

Computational modeling has become the norm in industry to remain competitive and be successful. As such, Model-Based Design of embedded software has enterprise-wide implications and modeling is not limited to isolated uses by a single engineer or team. Instead, it has reached a proliferation much akin to large software design, with requirements for infrastructure support such as version control, configuration management, and automated processing.

The comprehensive use of models in design has created a set of challenges beyond that of supporting one isolated design task. In particular, the need to combine, couple, and integrate models at different levels of abstraction and in different formalisms is posing a set of specific problems that the field of Computer Automated Multiparadigm Modeling (CAMPaM) is aiming to address.

The essential element of multiparadigm modeling is the use of explicit and heterogeneous models throughout. This leads to a framework with omnipresent models. Some represent the syntax of formalisms used for modeling, others are used to model the transformations that represent the operational semantics, as well as model-to-model transformations for inter-formalism transformation. Moreover, others are used to model the composition of models or even to model the composition of modeling formalisms. These models are then used to facilitate generative tasks in a language engineering space, such as evolving a domain specific modeling formalism as its requirements change, but also in a tool engineering space, such as automatic generation of integrated development environments. The use of ubiquitous explicit models during the whole system design process, from modeling formalism definition to system implementation, allows multiple types of analyses at various levels with great benefits in terms of performance, cost-effectiveness, safety, etc.

The purpose of this workshop is to bring together researchers and practitioners in the area of Multi-Paradigm Modeling in order to identify possible points of synergy, common problems and solutions, tool building aspects and visions for the future of the area.

Topics of interest (not limited)

- Applications (of current MPM techniques and tools and test/validate it);
- Language Engineering (and modeling Language Engineering);
- Usability (and modeling Usability) of MPM tools and models;
- Model Transformation (and modeling Transformations);
- Language Composition;
- (Meta)Model Evolution;
- Multi-View Modeling;
- Model Exchange, Debugging, Testing and Consistency;
- Visualization of Multi-Paradigm Models;
- MPM Education;
- Multi-Abstraction.

Submission Procedure

Papers must be submitted electronically as PDF via <http://avalon.aut.bme.hu/mpm10/>. Papers should not exceed 12 pages and follow the style available at the workshop web site.

Papers will be peer reviewed. Accepted papers will be published in the workshop proceedings in the form of a technical report. The best two papers will be published in the LNCS series of Springer.

Important Dates

Paper submission deadline: July 31, 2010
Notification of acceptance: September 5, 2010
Camera-ready papers due: September 12, 2010