

# The 22nd Annual ACM Symposium on Applied Computing Seoul, Korea

March 11 – 15, 2007

<http://www.acm.org/conferences/sac/sac2007>

Sponsored by the ACM Special Interest Group on Applied Computing

Hosted by Seoul National University and Suwon University, in Seoul.

SIGAPP



## Call for Papers ACM SAC 2007 Track on Model Transformation (MT 2007)

<http://www.model-transformation.org/MT2007/>

For the past twenty-one years the ACM Symposium on Applied Computing (SAC) has been a primary and international forum for applied computer scientists, computer engineers and application developers from around the world to gather, interact and present their work. SAC is sponsored by the ACM Special Interest Group on Applied Computing (SIGAPP), and the conference proceedings are published by ACM and are also available online through ACM's Digital Library. SAC 2007 will be hosted by Seoul National University and Suwon University, in Seoul Korea. Further information about SAC 2007 can be found at <http://www.acm.org/conferences/sac/sac2007>.

### **ABOUT THE SAC 2007 TRACK ON MODEL TRANSFORMATION (MT 2006)**

We are currently witnessing an increasing movement in the Software Engineering community towards the use of models for developing software systems. From mission computing domains (e.g., avionics and automotive industries) to financial enterprise systems, the role of models in the development of critical systems is gaining momentum. Shifting intellectual property and business logic from source code into models allows organizations to focus on the important aspects of their systems, which have traditionally been blurred by the usage of standard programming languages and underlying technologies that have added multiple layers of accidental complexity.

Model Engineering advocates models as the key artifacts in all phases of development, from system specification and analysis, to design and testing. The use of models opens up new possibilities for creating, analyzing, and manipulating systems through various types of tools and languages. Each model usually addresses one concern, and the transformations between models provide a chain that enables the automated development of a system from its corresponding models. Model transformation specification, implementation and execution are the critical parts of this process. Furthermore, model transformations are also models, and therefore an integral part of a model-based approach.

Model transformations need specialized support in several aspects in order to realize their full potential for system

modelers, transformation developers, and tool vendors. The problem goes beyond having specific languages to represent model transformations; we also need to understand the key concepts and operators supporting those languages, their semantics, and their structuring mechanisms and properties (e.g., modularity, composability, and parameterization). In addition, model transformations can be stored in repositories where they can be discovered and reused. There is also a need to chain and combine model transformations in order to produce new and more powerful transformations. Furthermore, model transformations need to be integrated into software development methodologies that have supporting tools and environments.

### **SCOPE**

After the success of last year's edition of the Model Transformation (MT) Track at SAC 2006, the MT2007 track aims to bring together researchers and practitioners to share experiences in using model transformations. Participants in the MT track will explore the practical problems of existing languages, tools, and environments for transforming models. The track will also address questions about the nature and features of model transformations, including the following topics: model merging, requirements and classification of languages for expressing transformations, measuring the quality and extra-functional requirements of model transformations (e.g., scalability, robustness, adaptability, reusability), and definition of development methodologies that allow exploiting all their potential benefits.

The track will be held between **March 11 and March 15, 2007**.

### **TOPICS**

The organizers encourage submissions from both academia and industry about the following (non-exhaustive) list of topics:

- Languages for model transformations
- Scalability and reuse of model transformations
- Metamodeling
- Domain-specific and concern-oriented modeling
- Semantics and formal aspects of model transformations

- Model Driven Architecture (MDA) and other model-driven approaches
- Model-driven code generation and other generative approaches
- Model query languages
- Model and metamodel transformations
- Model merging, weaving and composition
- Maintenance, evolution and management of model transformations
- Model-driven development methodologies, approaches, and languages
- Tools and environments for model-driven development
- Case studies and industrial experiences

## SUBMISSION GUIDELINES

Papers should represent original and previously unpublished ideas that are currently not under review in any conference or journal. Both basic and applied research papers are solicited. Papers describing novel applications and making significant research contributions are also of interest. Simultaneous submission to multiple SAC 2007 tracks is not allowed.

Submissions should follow ACM's two column format (<http://www.acm.org/sigs/pubs/proceed/template.html>), be up to 5 pages, and include the author's name, affiliation and contact details. Papers should be submitted to the Track Chairs before **September 8, 2006**, using the electronic submission system available at the SAC 2007 Web site.

Authors will be notified of acceptance by **October 16, 2006**. At least one author of accepted papers should register and participate in the Track. The conference proceedings will be published by ACM and will also be available online through ACM's Digital Library.

### Final Version

Each submitted paper will undergo a formal peer review process. The conference proceedings will be published by ACM. Hence, the camera-ready version of all accepted papers should be prepared using the ACM two-column format, for inclusion in the symposium proceedings. The maximum number of pages allowed for the final papers is five (5), with the option, at additional cost, to add three (3) more pages.

### Poster Publication of Selected Papers

A set of selected papers, from those not accepted as full papers at the Track, will be accepted as poster papers, and will be published as extended 2-page abstracts in the symposium proceedings.

### Journal Special Issue

A selected number from the best papers accepted at MT2007 will be invited for expansion and revision for possible publication at a special issue of Springer's *Journal of Software and Systems Modeling*, dedicated to "Model Transformation."

## TRACK CHAIRS

**Jean Bézivin** INRIA and Univ. of Nantes (France)  
**Jeff Gray** Univ. Alabama at Birmingham (US)  
**Alfonso Pierantonio** Univ. degli Studi dell'Aquila (Italy)  
**Antonio Vallecillo** Univ. of Málaga (Spain)

## MT2007 PROGRAM COMMITTEE

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 Wim Bast, Compuware (The Netherlands)

## IMPORTANT DATES

Workshop papers due: **8 September 2006**  
 Author notification: **16 October 2006**  
 Camera-ready papers due: **30 October 2006**  
 MT 2006 Track dates: **11-15 March 2007**

**Further information about the MT 2007 Track is available at**

<http://www.model-transformation.org/MT2007/>