
INTERNATIONAL CONFERENCE ON MODEL TRANSFORMATION (ICMT) 2008*Theory and Practice of Model Transformations***Co-located with TOOLS EUROPE and SEAFOOD**

1-2 July, 2008 – ETH Zurich, Switzerland

<http://www.model-transformation.org/ICMT2008/>
icmt2008@model-transformation.org

CALL FOR PAPERS

As the complexity of IT systems grows, the role of models is becoming essential for dealing with the numerous aspects involved in their development and maintenance processes. Models allow capturing the relevant aspects of a system from a given perspective, and at a precise level of abstraction. In addition to models, the transformations between them are other key elements in Model-Driven Engineering (MDE). Model transformations allow the definition and implementation of the operations on models, and also provide a chain that enables the automated development of a system from its corresponding models. Furthermore, model transformations may also be realized using models, and are, therefore, an integral part of any model-driven approach.

There are already several proposals for model transformation specification, implementation, and execution, which are beginning to be used by MDE practitioners. However, model transformations need specialized support in several aspects in order to realize their full potential. The problem goes beyond having specific languages to represent model transformations; we also need to understand their foundations, such as 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 as reusable assets, where they can be managed, discovered and reused. There is also a need to chain and combine model transformations in order to produce new and more powerful transformations, and to be able to implement new operations on models. Finally, model transformations need methodology support, i.e., they need to be integrated into software development methodologies supported by appropriate tools and environments.

SCOPE

After the success of two previous Tracks on Model Transformation at the ACM Symposium on Applied Computing (MT 2006 at Dijon, France, and MT 2007 at Seoul, Korea), the inaugural Conference on Model Transformations, ICMT 2008, will bring together researchers and practitioners to share experiences in using model transformations. Like its predecessors, ICMT 2008 combines a strong practical focus with the theoretical approach required in any discipline that supports engineering practices.

ICMT 2008 will be held at the ETH premises in Zurich, Switzerland, on July 1-2, and will host invited talks, technical sessions, and panels. As a working conference, ICMT 2008 will foster the interactions between the participants, stimulating lively debates and discussions around the topics

of interest of the conference. In addition, ICMT 2008 is co-located with two other major conferences, SEAFOOD 2008 and TOOLS Europe 2008, which allows attendees to benefit from interactions with researchers and practitioners from closely related communities.

ICMT 2008 participants will explore the practical problems of existing languages, tools, and environments for transforming models, and discuss the new challenges ahead. In particular, the conference will address questions about the nature and features of model transformations, their composability and combination to build new model transformations and implement high-level model management operations (merge, refinement, realization, union, difference and comparison). The conference will also address issues related to the classification of languages for expressing transformations, the measurement of the quality and extra-functional requirements of model transformations (e.g., scalability, robustness, adaptability, reusability), and the definition of development methodologies that allow exploiting all their potential benefits.

TOPICS

Contributions are solicited on all aspects of model transformation foundations, practices and technologies. In particular, we 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
- Domain-specific and concern-oriented modelling with model transformations
- Semantics and formal aspects of model transformations
- Implementation of model transformation engines
- Model transformations with Model-Driven Architecture (MDA) and other model-driven approaches
- Model-driven code generation and other generative techniques using a model transformation approach
- Model query languages as related to model transformation concerns
- Higher-level transformations and model transformation operators
- Model merging, weaving and composition
- Maintenance, evolution and management of model transformations
- Model-driven development methodologies, approaches, and languages with a focus on transformations
- Tools and environments for model-driven development with transformations
- Case studies and industrial experiences reporting on success or failure with model transformations

SUBMISSION GUIDELINES

Contributions 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, although we specifically welcome papers describing novel ideas with sound conceptual contributions that showcase applications. Papers presenting industrial experiences or tools supporting model transformation practices are also encouraged.

Each submitted paper will undergo a formal peer review process by at least 3 members of the Program Committee. Submissions should follow the LNCS format, be up to 15 pages, and include the author's name, affiliation and contact details. Further instructions for submitting a paper are at <http://www.model-transformation.org/ICMT2008/>. The submission deadline is January 25, 2008.

Authors will be notified of acceptance by March 18, 2008. At least one author of each accepted paper must register and participate in the conference. The proceedings will be published in the Lecture Notes in Computer Science series by Springer.

SPECIAL JOURNAL ISSUE

The conference chairs have confirmed a special issue with the journal *Software and Systems Modeling* (SoSym). The best papers from this conference will be invited for a round of reviews for this special issue.

IMPORTANT DATES

Paper submission: January 25, 2008
Notification of acceptance: March 18, 2008
Camera-ready version due: April 4, 2008
Conference dates: 1-2 July, 2008

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Further information about the ICMT 2008 conference can be found at: <http://www.model-transformation.org/ICMT2008/>  
The organizers may be contacted at:  
[icmt2008@model-transformation.org](mailto:icmt2008@model-transformation.org)  
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