



CALL FOR PAPERS
**3rd International Workshop on Graph and Model Transformation
(GraMoT 2008)**



Leipzig, Germany
May 12, 2008

<http://mathematik.uni-marburg.de/~swt/gramot>

A satellite event of the
**International Conference on Software Engineering 2008
(ICSE 2008)**

Graphs are a general kind of models which have been used in various fields of computer science. On one hand, they are well-suited to formally describe complex structures. On the other hand, the underlying structure of models, especially visual models, can be described best by graphs, due to their multidimensional extension. Graphs can be manipulated by graph transformation in a rule-based manner. Considering current trends in software development such as model driven engineering and model-integrated computing, there is an emerging need to describe model manipulations, model evolution, model semantics, etc. in a precise way. Recent research has shown that graph transformation is a promising formalism to specify model transformations.

The goal of the workshop is to foster interaction between the graph transformation and the model transformation community to facilitate exchange of results and challenge problems. The graph transformation research community has built up a significant body of knowledge over the past 30 years and in addition to the theoretical base several practical implementations have been created. The research area of model transformations has recently been identified as a key subject in model-driven development. Graph transformations could offer an elegant theory and powerful concepts for the model-driven engineering of software systems, while the software engineering community can generate interesting challenges for the graph transformation community. Therefore, there is a need for strong interaction and inter-operation between these communities: the intellectual interchange of ideas, problems, and solutions will lead to major advances in both fields.

Submissions: Anticipated submissions are either research or position papers and not more than 8 pages long. Research papers present new results from actual research which might be preliminary or intermediate, while position papers report on lessons learned or open model transformation problems. Topics of interest include, but are not restricted to:

- Graph transformation for the syntactical definition of model transformation languages
- Graph transformation as a tool to capture model transformation semantics
- Verification of model transformations based on graph transformation
- Novel concepts and results from graph transformations useful for model transformation
- Tool support for model transformation based on or inspired by graph transformation principles
- Comparison of graph transformation with other approaches to model transformation
- Novel application areas for graph transformation performing model transformation
- Problems in and limitations of model transformation where the use of graph transformation could help

Authors are invited to submit their papers by Jan 24, 2008. Submissions are to be sent to the workshop organizers via email, in PDF or Postscript form. Simultaneous submission to other venues and submission of previously published material are not allowed. Electronic submission will be required, except by special arrangement with the program chairs. Authors will be notified of acceptance by Feb 7, 2008. Final, camera-ready versions of accepted papers must be submitted by Feb 21, 2008.

All submissions will undergo a review process by the program committee. The proceedings of this workshop will be published in the ACM and IEEE digital Libraries. A preliminary version of the proceedings will be available at the workshop. For preparing your paper, please adhere strictly to the ICSE 2008 submission guidelines at <http://icse08.upb.de/calls/fsguidelines.html>.

Important deadlines:

Submission: Jan 24, 2008
Notification: Feb 7, 2008
Final version: Feb 21, 2008
Workshop: May 12, 2008

Organization:

- Gabor Karsai (Vanderbilt University, US)
- Gabriele Taentzer (Philipps-Universität Marburg, Germany)

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Program Committee (Tentative)

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