



Preface

Graphs are very high-level, abstract 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 multi-dimensional extension. Graphs can be manipulated by graph transformation operations in a rule-based manner. Considering current trends in software development such as model driven development (MDD), there is an emerging need to describe model manipulations such as model evolution, semantics definition, etc. in a precise way. Recent research has shown that graph transformation is a promising formalism to specify model transformations.

The goal of the GraMoT workshop was to foster interaction between the graph transformation and the model transformation community, and to facilitate the 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. We believe 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.

This volume contains the proceedings of the International Workshop on Graph and Model Transformation (GraMoT) 2005, held in Tallinn, Estonia, on September 28, 2005, where it was a workshop of the 2005 Generative Programming and Component Engineering (GPCE) conference.

The workshop consisted of 14 papers, organized into three thematic sessions: (1) Different views on model transformations, (2) Theory and applications, and (3) Tools for model transformation. At the end of the day, the

workshop had a discussion panel on the topic of graph and model transformation, with representatives from the research and industry communities.

The program of the workshop provided a proof that the graph and model transformation communities are both vibrant, lively groups, who can and should work together and generate significant new contributions.

Gabor Karsai
Gabriele Taentzer