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Preface

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Preface

Graphs are a general kind of models that 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 in a rule-based manner. Considering current trends in software development such as model driven development (MDD) and model-integrated computing (MIC), there is an emerging need to describe model manipulations such as 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 was 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. 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 Second International Workshop on Graph and Model Transformation (GraMoT) 2006, held in Brighton, United Kingdom, on September 8, 2006, where it was a satellite event of the IEEE Symposium on Visual Languages and Human-Centric Computing, 2006.

The workshop consisted of 11 papers, organized into four thematic sessions: (1) Relations between model transformation languages, (2) Syntax checking, (3) Execution of graph transformations and model transformations, and (4) Semantics of model transformations. After each session, the workshop had a short discussion panel on the topic of the session. Researchers from both academic and industrial backgrounds have participated in the workshop. This collection contains the revised version of the original papers presented at the workshop.

The workshop had demonstrated again that the graph and model transformation communities both are doing interesting and highly relevant research work that leads to significant new results. The organizers wish to thank the participants for their hard work in the hope that the workshop series will continue and will serve as a forum for presenting and discussing new results.

December, 2006

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Organizers