Proceedings of the
Doctoral Symposium at the
International Conference on Graph Transformation
(ICGT 2008)

Preface

Andrea Corradini, Emilio Tuosto

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For the first time in the history of the ICGT conference series, during the Fourth International Conference on Graph Transformation held in Leicester (UK) in September 2008, a specific event, the *ICGT 2008 Doctoral Symposium*, was explicitly dedicated to Ph.D. students and young researchers who completed their doctoral studies within the previous two years. The Doctoral Symposium consisted of some technical sessions, held during the main conference, dedicated to presentations by doctoral students and young researchers, giving them a unique opportunity to present their work and to interact with established researchers of the graph transformation community and with other students. Among the several submissions, sixteen contributions were selected for presentation at the conference, and the corresponding abstracts were included in the ICGT 2008 proceedings, which were published by Springer as Volume 5214 of the Lecture Notes in Computer Science series.

After the conference, authors of selected contributions were invited to submit a full paper on the topic presented at ICGT. The papers were reviewed by the members of the ICGT 2008 Program Committee, chaired by Andrea Corradini and Emilio Tuosto, and by their co-reviewers. Paper submission and reviewing were supported by the free conference management system EasyChair.

The following eight contributions were selected for publication, and are included in the present volume:

1. Dénes Bisztray, Reiko Heckel and Hartmut Ehrig
   Verification of Architectural Refactorings: Rule Extraction and Tool Support

2. Mike Dodds and Detlef Plump
   From Hyperedge Replacement to Separation Logic and Back

3. Davide Grohmann and Marino Miculan
   Deriving Barbed Bisimulations for Bigraphical Reactive Systems

4. Mohammad Hammoudeh, Robert Newman and Sarah Mount
   Modelling Clustering of Wireless Sensor Networks with Synchronised Hyperedge Replacement

5. Frank Hermann
   Permutation Equivalence of DPO Derivations with Negative Application Conditions based on Subobject Transformation Systems

6. Ajab Khan, Paolo Torrini and Reiko Heckel
   Model-based Simulation of VoIP Network Reconfigurations using Graph Transformation Systems

7. Carlos Matos and Reiko Heckel
   Migrating Legacy Systems to Service-Oriented Architectures

8. Michael Striewe and Michael Goedicke
   Using a Triple Graph Grammar for State Machine Implementations

We would like to thank the members of the Program Committee as well as Ralf Klasing and Paweł Sobociński for their excellent work in selecting the papers of this volume. We would also like to thank the organizers of ICGT for their constant support during the Doctoral Symposium.

July 2009

Andrea Corradini, Dipartimento di Informatica, Pisa
Emilio Tuosto, Department of Computer Science, Leicester

PC chairs of the Doctoral Symposium of ICGT 2008

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