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Generative and Transformational Techniques in Software Engineering II

International Summer School, GTTSE 2007
Braga, Portugal, July 2-7, 2007
Revised Papers

Springer

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Preface

The second instance of the international summer school on Generative and Transformational Techniques in Software Engineering (GTTSE 2007) was held in Braga, Portugal, during July 2–7, 2007. This volume contains an augmented selection of the material presented at the school, including full tutorials, short tutorials, and contributions to the participants workshop.

The GTTSE summer school series brings together PhD students, lecturers, technology presenters, as well as other researchers and practitioners who are interested in the generation and the transformation of programs, data, models, metamodels, documentation, and entire software systems. This concerns many areas of software engineering: software reverse and re-engineering, model-driven engineering, automated software engineering, generic language technology, to name a few. These areas differ with regard to the specific sorts of metamodels (or grammars, schemas, formats etc.) that underlie the involved artifacts, and with regard to the specific techniques that are employed for the generation and the transformation of the artifacts. The first instance of the school was held in 2005 and its proceedings appeared as volume 4143 in the LNCS series.

The 2007 instance of GTTSE offered eight tutorials, given by renowned representatives of complementary approaches and problem domains. Each tutorial combines foundations, methods, examples, and tool support. The program of the summer school also featured eight invited technology presentations, which presented concrete support for generative and transformational techniques. These presentations complemented each other in terms of the chosen application domains, case studies, and the underlying concepts. Furthermore, the program of the school included a participants workshop to which all students of the summer school were asked to submit an extended abstract beforehand. The Organizing Committee reviewed these extended abstracts and invited 12 students to present their work at the workshop.

This volume contains extended and revised versions of the material presented at the summer school. Each of the seven full tutorials included here was reviewed by two members of the Scientific Committee of GTTSE 2007. The five included short tutorials were reviewed by three members each. The four included participant contributions were selected on the basis of three reviews for each such submission. All submissions were carefully revised based on the reviews.

We are grateful to all lecturers and participants of the school for their enthusiasm and hard work in preparing excellent material for the school itself and for these proceedings. Due to their efforts the event was a great success, which we trust the reader finds reflected in this volume.

April 2008

Ralf Lämmel
Joost Visser
João Saraiva

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GTTSE 2007 was hosted by the Departamento de Informática, Universidade do Minho, Braga, Portugal.

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Table of Contents

I Full Tutorials

Design Space of Heterogeneous Synchronization 3
Michał Antkiewicz and Krzysztof Czarnecki

Software Reuse beyond Components with XVCL (Tutorial) 47
Stan Jarzabek

.QL: Object-Oriented Queries Made Easy 78
Oege de Moor, Damien Sereni, Mathieu Verbaere, Elnar Hajiyev, Pavel Avgustinov, Torbjörn Ekman, Neil Ongkingco, and Julian Tibble

Transforming Data by Calculation 134
José N. Oliveira

How to Write Fast Numerical Code: A Small Introduction 196
Srinivas Chellappa, Franz Franchetti, and Markus Püschel

A Gentle Introduction to Multi-stage Programming, Part II 260
Walid Taha

WebDSL: A Case Study in Domain-Specific Language Engineering 291
Eelco Visser

II Short Tutorials

Model-Driven Engineering of Rules for Web Services 377
Marko Ribarić, Dragan Gašević, Milan Milanović, Adrian Giurca, Sergey Lukichev, and Gerd Wagner

An Introduction to Context-Oriented Programming with ContextS 396
Robert Hirschfeld, Pascal Costanza, and Michael Haupt

A Landscape of Bidirectional Model Transformations 408
Perdita Stevens

Evolving a DSL Implementation 425
Laurence Tratt

Adding Dimension Analysis to Java as a Composable Language Extension (Extended Abstract) 442
Eric Van Wyk and Yogesh Mali

III Participants Contributions

Model Transformations for the Compilation of Multi-processor Systems-on-Chip 459
Éric Piel, Philippe Marquet, and Jean-Luc Dekeyser

Implementation of a Finite State Machine with Active Libraries in C++ 474
Zoltán Juhász, Ádám Sipos, and Zoltán Porkoláb

Automated Merging of Feature Models Using Graph Transformations . . . 489
Sergio Segura, David Benavides, Antonio Ruiz-Cortés, and Pablo Trinidad

Modelling the Operational Semantics of Domain-Specific Modelling Languages 506
Guido Wachsmuth

Author Index 521