Preface

The international summer school on Generative and Transformational Techniques in Software Engineering (GTTSE 2005) was held in Braga, Portugal, from July 4–8, 2005. In this volume, you find an augmented selection of the material presented at the school, including tutorials, technology presentations, and contributions to the participants workshop.

The GTTSE summer school 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, meta-models, and documentation. This concerns many areas of software engineering: software reverse and re-engineering, model-driven approaches, automated software engineering, generic language technology, to name a few. These areas differ with regard to the specific sorts of meta-models (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 2005 instance of GTTSE offered 8 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 10 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 have been asked to submit an extended abstract beforehand. The Organization Committee reviewed these extended abstracts and invited 14 students to present their work at the workshop.

This volume contains extended and reviewed versions of the material presented at the summer school. Each of the 7 tutorials included here was reviewed by 2 members of the Scientific Committee of GTTSE 2005. The 8 included technology presentations were reviewed by 3 members each, as were the 6 selected participant contributions. Review was selective and involved multiple rounds of improvements.

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.

May 2006

Ralf Lämmel, João Saraiva, and Joost Visser
Program Chairs and Organization Chair
GTTSE 2005

Organization

GTTSE 2005 was hosted by the Departamento de Informática, Universidade do Minho, Braga, Portugal.

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