

Preface

This volume contains selected papers from LOPSTR 2003, the 13th International Symposium on Logic-Based Program Synthesis and Transformation. The LOPSTR series is devoted to research in logic-based program development. Particular topics of interest are specification, synthesis, verification, transformation, specialization, analysis, optimization, composition, reuse, component-based software development, agent-based software development, software architectures, design patterns and frameworks, program refinement and logics for refinement, proofs as programs, and applications and tools.

LOPSTR 2003 took place at the University of Uppsala from August 25 to August 27 as part of PLI 2003 (Principles, Logics, and Implementations of High-Level Programming Languages). PLI was an ACM-organized confederation of conferences and workshops with ICFP 2003 (ACM-SIGPLAN International Conference on Functional Programming) and PPDP 2003 (ACM-SIGPLAN International Conference on Principles and Practice of Declarative Programming) as the main events. The LOPSTR community profited from the shared lectures of the invited speakers, and the active scientific discussions enabled by the co-location.

LOPSTR 2003 was the thirteenth in a series of events. Past events were held in Manchester, UK (1991, 1992, 1998), Louvain-la-Neuve, Belgium (1993), Pisa, Italy (1994), Arnhem, The Netherlands (1995), Stockholm, Sweden (1996), Leuven, Belgium (1997), Venice, Italy (1999), London, UK (2000), Paphos, Cyprus (2001), and Madrid, Spain (2002).

I wish to thank the PLI Organizing Committee and especially Kostis Sagonas for welcoming LOPSTR as part of PLI 2003 and taking care of the many organizational matters. Special thanks go towards Roland Bol for taking care of LOPSTR specific matters in Uppsala, towards Wim Vanhoof for assistance with the Program Chair work, and towards Qiang Fu for the help in preparing this volume. The sponsorship of the Association for Logic Programming (ALP) is gratefully acknowledged, and the LNCS team of Springer-Verlag is thanked for publishing this volume with the selected and revised papers. Last but not least, authors, PC members and additional reviewers are thanked for all the work that went into preparing this selection of revised papers.

Out of 32 submissions, the program committee selected 18 works for presentation; 16 were revised and submitted for this volume. The program committee selected 12 of them for inclusion in this volume. In addition, a paper based on the invited talk of Michael Leuschel is included as well as some abstracts based on the other papers presented at LOPSTR.

The preproceedings were printed in Uppsala and are also available at <http://www.cs.kuleuven.ac.be/~dtai/lopstr03/>, a page with all information about LOPSTR 2003.