

Preface

This volume contains the papers from LOPSTR 2001, the 11th International Workshop on Logic-based Program Synthesis and Transformation. Topics of interest to LOPSTR cover all aspects of logic-based program development and, in particular, specification, synthesis, verification, transformation, specialization, analysis, optimization, composition, reuse, component-based software development, and software architectures.

LOPSTR 2001 took place in the Coral Beach Hotel in Paphos (Cyprus) from November 28–30, 2001. Past LOPSTR workshops 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), and London, UK (2000).

LOPSTR 2001 was co-located with the 17th International Conference on Logic Programming (ICLP 2001)¹ and the 7th International Conference on Principles and Practice of Constraint Programming (CP 2001)². The LOPSTR community profited a lot from the scientific discussions, the lectures of the invited speakers, and the various sessions of ICLP and CP.

I would like to express my gratitude to all the authors of the submitted papers and all the attendees for their commitment and cooperation. Among the submitted papers, the Program Committee selected 13 papers for presentation. After the workshop, the authors were asked to submit improved versions of their papers which were then reviewed by the Program Committee. The final versions have been collected in this volume, which also includes the paper by our invited speaker, Natarajan Shankar (Stanford Research Institute, Menlo Park, USA), on the generation of efficient programs from logic.

My warmest thanks also go to all the members of the Program Committee and the additional reviewers for their diligent work and invaluable help. I would like to thank Fabio Fioravanti (IASI-CNR of Rome, Italy), Maurizio Proietti (IASI-CNR of Rome, Italy), and Antonis Kakas (University of Cyprus, Cyprus), who worked with me with great enthusiasm and dedication as members of the Organizing Committee.

The pre-proceedings of LOPSTR 2001 were printed by the IASI Institute of the National Research Council of Rome, Italy, and the Department of Computer Science of the University of Cyprus in Nicosia. I also thank Springer for accepting to publish these final proceedings in the LNCS series. The LOPSTR 2001 home page is: http://www.iasi.rm.cnr.it/~adp/lopstr01_cfp.html.

April 2002

Alberto Pettorossi

¹ Codognet, Ph., editor, *Logic Programming — ICLP 2001, Lecture Notes in Computer Science* 2237, Springer-Verlag, 2001.

² Walsh, T., editor, *Principles and Practice of Constraint Programming — CP 2001, Lecture Notes in Computer Science* 2239, Springer-Verlag, 2001.

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