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Logic-Based Program Synthesis and Transformation

21st International Symposium, LOPSTR 2011
Odense, Denmark, July 18-20, 2011
Revised Selected Papers

Volume Editor

Germán Vidal
Universitat Politècnica de València
MiST, DSIC
Camino de Vera, S/N
46022 València, Spain
E-mail: gvidal@dsic.upv.es

ISSN 0302-9743 e-ISSN 1611-3349
ISBN 978-3-642-32210-5 e-ISBN 978-3-642-32211-2
DOI 10.1007/978-3-642-32211-2
Springer Heidelberg Dordrecht London New York

Library of Congress Control Number: 2012943721

CR Subject Classification (1998): D.1.6, D.2.4-5, F.4.1, G.2.2, F.3,
I.2.2-4, D.3.1, F.1.1

LNCS Sublibrary: SL 1 – Theoretical Computer Science and General Issues

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Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Preface

This volume contains a selection of the papers presented at the 21st International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR 2011) held July 18–20, 2011, in Odense (Denmark). Information about the symposium can be found at: <http://users.dsic.upv.es/~lopstr11/>. Previous LOPSTR symposia were held in Hagenberg (2010), Coimbra (2009), Valencia (2008), Lyngby (2007), Venice (2006 and 1999), London (2005 and 2000), Verona (2004), Uppsala (2003), Madrid (2002), Paphos (2001), Manchester (1998, 1992, and 1991), Leuven (1997), Stockholm (1996), Arnhem (1995), Pisa (1994), and Louvain-la-Neuve (1993).

The aim of the LOPSTR series is to stimulate and promote international research and collaboration in logic-based program development. LOPSTR traditionally solicits contributions, in any language paradigm, in the areas of specification, synthesis, verification, analysis, optimization, specialization, security, certification, applications and tools, program/model manipulation, and transformational techniques. LOPSTR has a reputation for being a lively, friendly forum for presenting and discussing work in progress. Formal proceedings are produced only after the symposium so that authors can incorporate this feedback in the published papers.

In response to the call for papers, 28 contributions were submitted from 13 different countries. The Program Committee accepted six full papers for immediate inclusion in the formal proceedings, and eight more papers were accepted after a revision and another round of reviewing. Each paper was reviewed by at least three Program Committee members or external referees. In addition to the contributed papers, the program also included invited talks by John Gallagher (Roskilde University, Denmark), Fritz Henglein (DIKU, University of Copenhagen, Denmark) and Vitaly Lagoon (Cadence Design Systems, Boston, USA), two of them shared with PPDP 2011.

I am very grateful to all the authors of submitted papers and, especially, to the invited speakers, for their contributions to LOPSTR 2011. I want to thank the Program Committee members, who worked diligently to produce high-quality reviews for the submitted papers, as well as all the external reviewers involved in the paper selection. I would also like to thank Andrei Voronkov for his excellent EasyChair system that automates many of the tasks involved in chairing a conference.

LOPSTR 2011 was co-located with PPDP 2011, AAIP 2011 and WFLP 2011. Many thanks to the local organizers of these events, in particular to Peter Schneider-Kamp, the LOPSTR 2011 Symposium Chair. Finally, I gratefully acknowledge the institutions that sponsored this event: University of Southern Denmark and Danish Agency for Science, Technology and Innovation.

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