Preface

This volume contains the proceedings of the 23rd International Conference on Logic Programming, ICLP 2007, held in the World Heritage City of Porto, Portugal, September 8–13, 2007. The conference was collocated with seven pre and post-conference workshops:

- The 8th Workshop on Computational Logic in Multi-Agent Systems (CLIMA-VIII)
- The 2nd International Workshop on Applications of Logic Programming to the Web, Semantic Web and Semantic Web Services (ALPSWS 2007)
- Answer Set Programming: Advances in Theory and Implementation (ASP 2007)
- The 4th Workshop on Constraint Handling Rules (CHR 2007)
- The 7th International Colloquium on Implementation of Constraint and Logic Programming Systems (CICLOPS 2007)
- Workshop on Constraint Based Methods for Bioinformatics (WCB 2007)
- The 17th Workshop on Logic-Based Methods in Programming Environments (WLPE 2007)

Since the first conference held in Marseilles in 1982, ICLP has been the premiere international conference for disseminating research results in logic programming. The present edition of the conference received 74 submissions from 23 countries: Argentina (1), Australia (4), Belgium (6), Brazil (1), Canada (2), Finland (2), France (4), Germany (3), Greece (1), Hungary (2), India (1), Israel (1), Italy (13), The Netherlands (1), Poland (1), Portugal (10), Russia (2), Singapore (2), South Korea (1), Spain (6), the United Arab Emirates (1), the USA (7), and the UK (2). The Program Committee selected 22 technical papers for presentation and inclusion in the proceedings. In addition, the program also included 15 poster presentations.

As in the past, the ICLP Program Committee selected the best paper and the best student paper. The Best Paper Award went to Sabrina Baselice, Piero Bonatti and Giovanni Criscuolo, for their paper “On Finitely Recursive Programs,” while Matti Järvisalo and Emilia Oikarinen won the Best Student Paper Award for their paper “Extended ASP Tableaux and Rule Redundancy in Normal Logic Programs.”

ICLP 2007 was organized by the Association for Logic Programming (ALP), in collaboration with the Organizing Committees of the collocated workshops and the Computer Science Department at the Faculty of Sciences of the University of Porto. It was sponsored by the Association for Logic Programming, the Portuguese Association for Artificial Intelligence (APPIA), and the University of Porto. We greatly appreciate their generous support.

Many people contributed to the success of the conference, to whom we hereby extend our gratitude and thanks. The General Chair, Fernando Silva, worked hard to coordinate the overall arrangements of the conference, from the conference site and sponsoring to budgeting and registration. PC members and several other external referees provided timely and in-depth reviews of the submitted papers, and worked hard to select the best papers and posters for the conference program. The Workshop Chair, Agostino Dovier, and the Doctoral Consortium Chairs, Enrico Pontelli and Inês Dutra, significantly contributed to the conference’s rich programme. Salvador Abreu, the Publicity Chair, worked hard to spread all news regarding the conference, and Ricardo Rocha, the Local Chair, Michel Ferreira and Pedro Ribeiro orchestrated the website and the myriads of practical arrangements needed at the conference site. Bart Demoen, indefatigable after thirteen years of successfully running the Logic Programming Contest, ran yet another challenging and interesting contest. It goes without saying that the broad logic programming community contributed the most by submitting excellent technical and application papers and posters. Last but not least, we thank the developers of the EasyChair conference management system, which made our job definitely easier.

September 2007

Verónica Dahl
Ilkka Niemelä
Program Committee Co-Chairs
ICLP 2007
ICLP 2007 was organized by the Association for Logic Programming (ALP), in collaboration with the Computer Science Department at the Faculty of Sciences of the University of Porto.

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Additional Referees

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Martin Gebser  Inna Pivkina  Luca Viganò
Samir Genaim  Axel Polleres  Enea Zaffanella
Ping Hou  Enrico Pontelli  Damiano Zanardini
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