Preface

This volume contains the proceedings of the 21st International Conference on Logic Programming which was held in Sitges (Barcelona), Spain, from October 2nd to 5th, 2005. The conference was colocated with the International Conference on Constraint Programming (CP 2005) and the following 6 post-conference workshops:

- CICLOPS 2005: Colloquium on Implementation of Constraint and Logic Programming Systems
- CSLP 2005: Constraint Solving and Language Processing
- WCB 2005: Constraint Based Methods for Bioinformatics
- WLPE 2005: Logic-Based Methods in Programming Environments
- CHR 2005: Constraint Handling Rules

The conference coincided with a solar eclipse, which occurred on October 3rd and was visible in Sitges. No conference activities were scheduled at the time of the eclipse to allow delegates to view this extraordinary astronomical event.

Since the first conference that was held in Marseilles in 1982, ICLP has been the premier international conference for presenting research in logic programming. In this edition of the conference, extra attention was given to novel applications of logic programming and to work providing novel integrations of different areas. Colocation with CP 2005 further reinforced these themes, as it provided an opportunity for the exchange of ideas and cross-fertilization among two areas which have common roots. ICLP 2005 and CP 2005 shared the invited speakers to underscore this effort. ICLP 2005 broke new ground by holding a doctoral consortium for the first time in the ICLP series of conference.

One hundred and four abstracts were submitted in response to the call for papers. All but a few abstracts were followed by the submission of a full paper 1 week later. Each full paper was reviewed by at least three referees and the Program Committee finally selected 25 contributed papers and 15 poster papers. In addition, the program included invited talks by Ian Horrocks, Francesca Rossi, and Peter Stuckey, an industrial invited talk by Walter Wilson, a tutorial by Vítor Santos Costa on “Inductive Logic Programming, Statistical Relational Learning, and Its Applications”, a panel on “Future Logic Programming Languages” and a doctoral consortium. The seven students selected for the doctoral consortium also presented their research as a poster in the program. The extended abstracts of the invited talks and of all the posters are also included in these proceedings.

ICLP 2005 was organized by the Association for Logic Programming (ALP), in collaboration with the Artificial Intelligence Research Institute of the Spanish Council for Scientific Research (IIIA-CSIC) and the Technical University of
Catalonia (UPC). Other sponsors included the Asociación Española de Inteligencia Artificial (AEPIA), the University of Texas at Dallas (UTD), CoLogNET, the University of Lleida, the Spanish Ministry of Education and Science and Cambridge University Press.

There are many people who deserve thanks for contributing to the success of the conference as well as to the creation of this volume. The PC members, aided by several external referees, produced timely and accurate reviews for the large number of submitted papers. The conference co-chairs, Pedro Meseguer and Javier Larrosa, did a superb job in organizing the joint event, as well as in successfully solving the many problems that were encountered. Hai-Feng Guo, the workshop chair, Felip Manya, the publicity chair, and Enrico Pontelli, the doctoral consortium chair, significantly contributed to the conference’s success through their untiring efforts. Thanks to Bart Demoen for having accepted to organize again the traditional Programming Contest. Finally, thanks to all the authors who took an interest in ICLP 2005 and submitted papers, and to the developers of the Easy Chair conference management system that made our job as program co-chairs so much easier.

July 2005

Maurizio Gabbrielli and Gopal Gupta
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