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Logic Programming

25th International Conference, ICLP 2009
Pasadena, CA, USA, July 14-17, 2009
Proceedings

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Preface

This volume contains the proceedings of the 25th International Conference on Logic Programming (ICLP 2009). The conference took place in Pasadena, California during July 14–17, 2009. The ICLP series of conferences is aimed at providing a technical forum for presenting and disseminating innovative research results in the field of logic programming.

The conference, which was co-located with the International Joint Conference on Artificial Intelligence (IJCAI), featured technical presentations, tutorials, invited talks, and a number of special events, including:

- The 5th ICLP Doctoral Student Consortium
- The Second Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP)
- The 6th International Workshop on Constraint Handling Rules (CHR)
- The 9th International Colloquium on Implementation of Constraint and LOgic Programming Systems (CICLOPS)
- The 4th International Workshop on (Constraint) Logic Programming and Software Engineering (CLPSE)
- The First Workshop on Commercial Users of Logic Programming (CULP)
- Workshop on ISO Prolog — WG17
- The 19th Workshop on Logic-based methods in Programming Environments (WLPE)

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 69 submissions in three categories: application, system and tool, and technical papers. From these, the Program Committee selected 29 papers for presentation and inclusion in the proceedings. In addition, the committee selected nine short papers describing on-going research work, PhD theses and research project overviews for poster presentations and inclusion in the proceedings.

As in previous years, the Program Committee selected the best paper and the best student paper. The Best Paper Award went to Henning Christiansen and John Gallagher for their paper "Non-discriminating Arguments and Their Uses" while the Best Student Paper went to Matthias Broecheler and Gerardo Simari for their paper (co-authored with V.S. Subrahmanian) "Using Histograms to Better Answer Queries to Probabilistic Logic Programs."

ICLP 2009 included invited talks by Taisuke Sato titled "Generative Modeling by PRISM;" by Paulo Moura titled "From Plain Prolog to Logtalk Objects: Effective Code Encapsulation and Reuse;" by Chris Mungall titled "Experiences Using Logic Programming in Bioinformatics;" and by Marc Denecker titled "A Knowledge Base System Project for FO(.)". The program also featured four tutorials: "Probabilistic Logic Learning" by Luc De Raedt; "Enabling Serendipitous

Search on the Web of Data Using Prolog" by Jan Wielemaker; "(C)LP Tracing and Debugging" by Mireille Ducasse; and "Untangling Reverse Engineering with Logic and Abstraction" by Andy King.

ICLP 2009 was organized by the Association for Logic Programming (ALP) in collaboration with the IJCAI 2009 Organizing Committee and the Organizing Committees of the special events associated with ICLP 2009. ICLP 2009 was sponsored by ALP, the University of Texas at Dallas, and the University of Nebraska, Omaha.

Many people contributed to the success of the conference, to whom we hereby extend our gratitude and thanks. The IJCAI organizing staff, Carol Hamilton (Executive Director, AAAI), Richard J Doyle (Local Arrangements chair) and Craig Boutilier (PC Chair), enabled the successful collaboration and co-location with IJCAI. The General Chairs, Gopal Gupta and Hai-Feng Guo, both worked extremely hard to ensure a memorable event, providing leadership in all aspects of the organization process. The members of the Program Committee provided invaluable help in the process of selecting papers and developing the conference program. The numerous referees invested countless hours in reading submissions and providing professional reviews. Manuel Carro (the Workshop Chair) and Marcello Balduccini (a Doctoral Consortium Co-chairs); and Tom Schrijvers (a Doctoral Consortium Co-chair and the Prolog Programming Contest Chair) contributed to ICLP by the addition of exciting and well-organized events, while Ricardo Rocha, the Publicity Chair, helped to ensure its overall success. This year, with only a very short period between ICLP 2008 (held in December 2008) and the March 3 deadline for ICLP 2009 submitted papers, the biggest "thank you" of all should go to the large number of researchers in the logic programming community who rose to the challenge and submitted many excellent technical papers and posters. Last but not least, we wish to thank the developers of the EasyChair conference management system, which made our job much easier.

April 2009

Patricia M. Hill
David S. Warren

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Patricia M. Hill
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