Preface

This volume contains the proceedings of the 19th International Conference on Logic Programming, ICLP 2003, which was held at the Tata Institute of Fundamental Research in Mumbai, India, during 9–13 December, 2003. ICLP 2003 was colocated with the 8th Asian Computing Science Conference, ASIAN 2003, and was followed by the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS 2003. The latter event was hosted by the Indian Institute of Technology in Mumbai.

In addition, there were five satellite workshops associated with ICLP 2003:

- SVV 2003, Software Verification and Validation, 14th Dec. 2003, organized by Sandro Etalle, Supratik Mukhopadhyay, and Abhik Roychoudhury.

Starting with the first conference held in Marseilles in 1982, ICLP has been the premier international conference for presenting research into logic programming. ICLP 2003 received 81 submissions, from which the Program Committee selected 23 papers for presentation and inclusion in the proceedings. In addition, these proceedings contain the abstracts of 18 selected posters. For the first time, these posters have been organized into a series of short presentations complementing the usual display session at the conference. Credit is due to Poster Chair M.R.K. Krishna Rao for the extreme care with which he managed all matters related to the posters, including their selection, the editing of the abstracts for the proceedings, and the organization of the poster session itself.

Finally, the proceedings contain the contributions of the invited speakers and invited tutorial speakers. We were privileged to have Greg Morriset as keynote speaker, in common with ASIAN 2003. The other invited talks were given by Rolf Backofen, Maurizio Gabbrielli, Olivier Ridoux, and William Winsborough. The tutorial speakers were Paola Bruscoli, François Fages, Kung-Kiu Lau, and Frank S. Valencia.

In addition, the conference program contained some special sessions: a Programming Contest, organized by Bart Demoen; an open session on the next LP language, organized by Bart Demoen and Peter Stuckey; and a Teaching Panel, organized by Mireille Ducassé.
The Association of Logic Programming sponsored some awards assigned to the authors of the best works accepted at ICLP 2003 in the categories of student papers and application papers.

– The best student paper awards were received by:
  – Frank D. Valencia, for the paper *Timed Concurrent Constraint Programming: Decidability Results and Their Application to LTL*, and
  – Brigitte Pientka, for the paper *Higher-Order Substitution Tree Indexing*.
– The best application paper award was received by: Frej Drejhammar, Christian Schulte, Per Brand, and Seif Haridi for the paper *Flow Java: Declarative Concurrency for Java*.

On behalf of the Program Committee I would like to thank the authors of the submitted papers and the external referees, whose timely and expert reviews were indispensable in the evaluation of the submissions. Many thanks also to the Conference Chair, R.K. Shyamasundar, to the Poster Chair, and to the Publicity Chair, Jan-Georg Smaus, for the extraordinary work they did. Furthermore we want to express our appreciation to the invited speakers and to the invited tutorial speakers, whose excellent talks contributed greatly to the success of the conference. Special thanks go to the workshops organizers, to the Workshop Chairs, N. Raja and Vitor Santos Costa, and to the organizers of the special sessions. The Poster Chair, M.R.K. Krishna Rao, gratefully acknowledges the excellent support provided by the King Fahd University of Petroleum and Minerals in his activities related to ICLP 2003. Finally, we would like to thank Richard van de Stadt for his conference management software, CyberChair, which was extremely useful for dealing with the electronic submissions and with the selection process.

September 2003

Catuscia Palamidessi
Organization

ICLP 2003 was organized by the Tata Institute of Fundamental Research (TIFR) in Mumbai (India).

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