Preface

These are the proceedings of the 18th International Conference on Logic Programming (ICLP 2002) held at the University of Copenhagen from July 29th to August 1st, 2002. For the first time the International Conference on Logic Programming was part of the Federated Logic Conference (FloC) which included the events:

- Conference on Automated Deduction (July 27-30)
- Conference on Computer-Aided Verification (July 27-31)
- Formal Methods Europe (July 22-24)
- IEEE Symposium on Logic in Computer Science (July 22-25)
- Conference on Rewriting Techniques and Applications (July 22-24)
- Automated Reasoning with Analytic Tableaux and Related Methods (July 30th - August 1st)

Furthermore seven satellite workshops were also associated with the conference and took place in the period July 27th to August 1st.

This volume contains the papers accepted for presentation at ICLP 2002. The conference received 82 submissions, in two categories: 21 applications papers and 61 technical papers. Of these, 29 papers were accepted for presentation, 7 applications papers and 22 technical papers. The program committee selected a best paper from each of the two categories. In addition 13 papers were accepted as short papers and presented as posters during the technical program.

The conference program also included two invited talks and four tutorials. We were privileged to have two distinguished invited speakers: Pierre Wolpe (University of Liege) talking about constraint representation by finite automata and Stefan Decker (Stanford University), talking about the possible roles of logic and logic programming in the Semantic Web. The four tutorials all represent areas of logic programming which are currently highly active. David D. Warren presented a tutorial on tabled logic programming, Thom Frühwirth and Slim Abdennadher presented constraint handling rules Mirek Truszczynski presented answer sets, and Abhik Roychoudhury and I.V. Ramakrishnan presented automated verification.

I would like to thank all the authors of the submitted papers, the Program Committee members, and the referees for their time and efforts spent in the reviewing process, the conference chair Henning Christiansen, and the FLoC organizers for the excellent organization of the conference.

May 2002

Peter J. Stuckey
ICLP 2002 was organized by the Association of Logic Programming

Conference Organization

Conference Chair: Henning Christiansen (Roskilde University, Denmark)
Program Chair: Peter J. Stuckey (University of Melbourne, Australia)
Workshop Chair: Henning Christiansen (Roskilde University, Denmark)
FloC Conference Chair: Neil D. Jones (University of Copenhagen, Denmark)
Publicity: Martin Grohe (University of Edinburgh, UK)

Program Committee

José Alferes (Universidade Nova de Lisboa, Portugal)
Francisco Bueno (Universidad Polytecnica de Madrid, Spain)
Henning Christiansen (Roskilde University, Denmark)
Sandro Etalle (University of Twente, The Netherlands)
François Fages (INRIA, France)
Maurizio Gabbrielli (University of Bologna, Italy)
María García de la Banda (Monash University, Australia)
Michael Gelfond (Texas Tech University, USA)
Gopal Gupta (University of Texas at Dallas, USA)
Katsumi Inoue (Kobe University, Japan)
Joxan Jaffar (National University of Singapore, Singapore)
Gerda Janssens (Katholieke Universiteit Leuven, Belgium)
Bharat Jayaraman (State University of New York at Buffalo, USA)
Michael Leuschel (University of Southampton, UK)
Michael Maher (Loyola University, USA)
Dale Miller (Pennsylvania State University, USA)
Ulf Nilsson (Linköping University, Sweden)
Francesca Rossi (Università di Padova, Italy)
Konstantinos Sagonas (Uppsala University, Sweden)
Christian Schulte (Royal Institute of Technology, Sweden)
Harald Søndergaard (University of Melbourne, Australia)
Peter Stuckey (University of Melbourne, Australia)
Francesca Toni (Imperial College, UK)
Miroslaw Truszczynski (University of Kentucky, USA)
Pascal Van Hentenryck (Brown University, USA)
David S. Warren (State University of New York at Stony Brook, USA)
Referees

Areski Nait Abdallah  
Salvador Abreu  
Gianluca Amato  
James Bailey  
Marcello Balduccini  
Chitta Baral  
David Billington  
Roland Bol  
Lucas Bordeaux  
Maurice Bruynooghe  
Daniel Cabeza  
Manuel Carro  
Carlo Combi  
Emmanuel Coquery  
Jesús Correas  
Carlos Damasio  
Frank de Boer  
Danny de Schreye  
Alex Dekhtyar  
Bart Demoen  
Jürgen Dix  
Mireille Ducassé  
Ines Dutra  
Artur Garcez  
Ana García-Serrano  
José Manuel Gómez  
Roberta Gori  
Michel Grabisch  
Stefan Gruner  
Sergio Guadarrama  
Hai-Feng Guo  
Martin Henz  
Koji Iwanuma  
Nicolas Jacobs  
Antonius Kakas  
Bob Kowalski  
Kung-Kiu Lau  
João Leite  
Lengning Liu  
Pedro López-García  
Jan Maluszynski  
José Manuel Gómez  
Massimo Marchiori  
Victor W. Marek  
Kim Marriott  
Nancy Mazur  
Chiara Meo  
Laurent Michel  
Tim Miller  
J. J. Moreno Navarro  
S. Muñoz Hernández  
Ilkka Niemelä  
Nicolay Pelov  
Luís Moniz Pereira  
Luís Pias de Castro  
Pawel Pietrzak  
Iman Hafiz Poernomo  
Enrico Pontelli  
Steven Prestwich  
Germán Puebla  
Jan Ramon  
Nico Roos  
Abhik Roychoudhury  
Salvatore Ruggieri  
Chiaki Sakama  
Vítor Santos Costa  
Taisuke Sato  
Andrea Schaefer  
Alexander Serebrenik  
Kish Shen  
Fernando Silva  
Zoltan Somogyi  
Fausto Spoto  
Kostas Stathis  
Gheorghe Stefanescu  
Martin Sulzmann  
P.S. Thiagarajan  
Paolo Torroni  
Son Cao Tran  
Claudio Vaucheret  
Eric de la Clergerie  
Eelco Visser  
Razvan Voicu  
Richard Watson  
Herbert Wiklicky  
Cees Witteveen  
Roland Yap  
Jia-Huai You

Prizes

Best Paper (Applications Program)
An abductive approach for analysing event-based requirements specifications,
Alessandra Russo, Rob Miller, Bashar Nuseibeh, and Jeff Kramer.

Best Paper (Technical Program)
Trailing analysis for HAL,
Tom Schrijvers, María García de la Banda, and Bart Demoen.

Sponsors

IF Computer GmbH  
Federated Logic Conference (FLoC02)
Association of Logic Programming  
University of Copenhagen
Logic Programming
18th International Conference, ICLP 2002, Copenhagen, Denmark, July 29 - August 1, 2002 Proceedings
Stuckey, P.J. (Ed.)
2002, XI, 486 p., Softcover
ISBN: 978-3-540-43930-1