

Preface

This volume contains the proceedings of the Joint International Symposium PLILP/ALP '98, which has united the Tenth PLILP (Programming Languages, Implementations, Logics and Programs) and the Seventh ALP (Algebraic and Logic Programming) conferences. This symposium was held in Pisa, Italy, during September 16–18, in cooperation with the Fifth Static Analysis Symposium (SAS '98), chaired by Giorgio Levi, and in conjunction with a number of satellite events.

The previous PLILP meetings took place in Orléans, France (1988), Linköping, Sweden (1990), Passau, Germany (1991), Leuven, Belgium (1992), Tallinn, Estonia (1993), Madrid, Spain (1994), Utrecht, The Netherlands (1995), Aachen, Germany (1996), and Southampton, UK (1997). All proceedings have been published by Springer-Verlag as Lecture Notes in Computer Science, volumes 348, 456, 528, 631, 714, 844, 982, 1140, and 1292, respectively.

The previous ALP meetings took place in Gaussig, Germany (1988), Nancy, France (1990), Volterra, Italy (1992), Madrid, Spain (1994), Aachen, Germany (1996), and Southampton, UK (1997). All proceedings have been published by Springer Verlag as Lecture Notes in Computer Science, volumes 343, 463, 632, 850, 1139, and 1298, respectively.

The PLILP symposia traditionally aim at stimulating research in declarative programming languages, and seek to disseminate insights in the relation between the logics of those languages, implementation techniques, and the use of these languages in constructing real programs. The ALP conferences traditionally promote the exchange of ideas and experiences among researchers from the declarative programming communities. In addition to the standard topics, the 98 Joint Symposium encouraged contributions also from other programming areas, in particular from the concurrent and object-oriented fields.

The program committee met electronically during the second and third week of May, 1998, and selected 26 papers out of 68 submissions (38%). Besides the selected contributions, the scientific program included three invited talks, by Charles Consel (University of Rennes/Irisa, France), Amir Pnueli (Weizmann Institute of Science, Rehovot, Israel), and Scott A. Smolka (SUNY Stony Brook, USA). The last two presentations were shared with SAS '98. In addition, the program included three tutorials, by Andrea Asperti (University of Bologna, Italy), John Hannan (The Pennsylvania State University, USA), and Andrew Pitts (University of Cambridge, UK). This volume contains all the selected papers, and the contributions (either in form of a short abstract or a full paper) of the invited speakers and tutorialists, except for the contribution of Amir Pnueli, which is included in the proceedings of SAS '98.

We would like to thank all those who submitted papers, for their interest in PLILP/ALP '98, the Program Committee members and their referees, for their careful work in the reviewing and the selection process, and the invited speakers and tutorialists, for their contribution to the success of the symposium.

Finally, we would like to express our gratitude to the members of the local committee, for the effort they have invested in organizing this event.

July 1998

Catuscia Palamidessi, Hugh Glaser and Karl Meinke

Program Committee

Catuscia Palamidessi	Penn State University, USA (Co-chair)
Hugh Glaser	University of Southampton, UK (Co-chair)
Karl Meinke	KTH, Sweden (Co-chair)
Lex Augusteijn	Philips Research, The Netherlands
Frederic Benhamou	University of Nantes, France
Luca Cardelli	Microsoft Research Ltd, UK
Francois Fages	CNRS, ENS, France
Moreno Falaschi	University of Udine, Italy
Peter Kacsuk	MTA SZTAKI Research Institute, Hungary
Xavier Leroy	INRIA, France
Jean-Jacques Levy	INRIA, France
John Lloyd	University of Bristol, UK
Paola Mello	University of Ferrara, Italy
Eugenio Moggi	University of Genova, Italy
Peter Mosses	BRICS, Denmark
Gopalan Nadathur	The University of Chicago, USA
Jukka Paakki	Helsinki University of Technology, Finland
Simon Peyton Jones	University of Glasgow, UK
Benjamin Pierce	Indiana University, USA
Ernesto Pimentel	University of Malaga, Spain
Zoltan Somogyi	University of Melbourne, Australia
Peter Thiemann	University of Nottingham, UK
Yoshihito Toyama	JAIST, Japan
Peter Wegner	Brown University, USA
Reinhard Wilhelm	University of Saarland, Germany

Organizing Committee

Maurizio Gabbrielli (Chair)

Gianluca Amato, Roberto Bagnara, Roberto Giacobazzi, Roberta Gori, Ernesto Lastres, Giorgio Levi, Rene Moreno, Francesca Scozzari, Fausto Spoto, and Paolo Volpe.

List of Referees

Maria Alpuente, Christian Attiogbe, Lennart Augustsson, Roberto Bagnara, Rudolf Berghammer, Gilles Bernot, Richard Bird, Urban Boquist, Antony Bowers, Francisco Bueno, Carlos Canal, Maura Cerioli, Iliano Cervesato, Manuel M. T. Chakravarty, Anna Ciampolini, Lars R. Clausen, Graham Collins, Marco Comini, Charles Consel, Thomas Conway, Agostino Cortesi, Vitor Santos Costa, Olivier Danvy, Giorgio Delzanno, Enrico Denti, Stephan Diehl, Agostino Dovier, Tyson Dowd, Kent Dybvig, Kerstin Eder, Christian Ferdinand, Gerard Ferrand, Gilberto Filé, Peter Flach, Gianluca Franco, John Gallagher, Maria del Mar Gallardo, Benedict R. Gaster, P. M. H. M. A. Gorissen, Frederic Goualard, Laurent Granvilliers, Andy Gravell, Steve Gregory, Gopal Gupta, John Hannan, Michael Hanus, Therese Hardin, Reinhold Heckmann, Fergus Henderson, Miki Hermann, Kohei Honda, Jan Hoogerbrugge, Herman ter Horst, Graham Hutton, Tetsuo Ida, Bart Jacobs, Tomi Janhunnen, Barry Jay, Bharat Jayaraman, David Jeffery, Johan Jeuring, Thomas Johnsson, Paul H. J. Kelly, Richard Kelsey, Siau Cheng Khoo, Helene Kirchner, Herbert Kuchen, Francois Laburthe, Laura Lafave, Arnaud Lallouet, Evelina Lamma, Cosimo Laneve, Giorgio Levi, Michael Levin, Frank van der Linden, Jorge Lobo, Rita Loogen, Salvador Lucas, Simon Marlow, Luc Maranget, Maurizio Martelli, Erik Meijer, Aart Middeldorp, Michela Milano, Dale Miller, Juan Miguel Molina, Rafael Morales, Pierre-Etienne Moreau, Jon Mountjoy, Manfred Muench, Lee Naish, Zsolt Nemeth, Ilkka Niemelä, Ulrich Nitsche, Michael J. O'Donnell, Atsushi Ohori, Chris Okasaki, Javier Oliver, Andrea Omicini, Luke Ong, Wouter van Oortmerssen, Vincent van Oostrom, Bruno Pagano, David Pearce, Susanna Pelagatti, Javier Piris, Andreas Podelski, Norbert Podhorszki, Maria Jose Ramirez, Francesco Ranzato, Jakob Rehof, Gilles Richard, Fabrizio Riguzzi, Christophe Ringeissen, Kristoffer H. Rose, Salvatore Ruggieri, David E. Rydeheard, Amr Sabry, Mooly Sagiv, Masahiko Sakai, David Sands, Davide Sangiorgi, Frederic Saubion, Peter Schachte, Tony Scurr, Helmut Seidl, Peter Sestoft, Sylvain Soliman, Harald Søndergaard, Michael Sperber, Fausto Spoto, Cesare Stefanelli, Peter Stuckey, Taro Suzuki, Val Tannen, Simon Taylor, David N. Turner, German Vidal, Paolo Volpe, Fer-Jan de Vries, Philip Wadler, David Wakeling, Roland Yap, Hirofumi Yokouchi, Enea Zaffanella, and Hans Zantema.

Joint events

Chair: Roberto Bagnara

The SAS/PLILP/ALP '98 conference was held in conjunction with the following satellite events:

The Workshop on Principles of Abstract Machines.
Organized by Stephan Diehl and Peter Sestoft.

The 1st International Workshop on Component-based software development in Computational Logic.
Organized by Antonio Brogi and Patricia Hill.

The Second International Workshop on Verification, Model Checking and Abstract Interpretation.
Organized by Annalisa Bossi, Agostino Cortesi, and Francesca Levi.

The ERCIM Working Group on Programming Languages.
Coordinated by Neil Jones.

Sponsors of SAS/PLILP/ALP '98

Università di Pisa
Compulog Network
CNR-Gruppo Nazionale di Informatica Matematica
Consiglio Nazionale delle Ricerche
Comune di Pisa
Unione Industriali di Pisa

Principles of Declarative Programming

10th International Symposium PLILP'98, Held Jointly with
the 6th International Conference ALP'98, Pisa, Italy,

September 16-18, 1998 Proceedings

Palamidessi, C.; Glaser, H.; Meinke, K. (Eds.)

1998, XII, 504 p., Softcover

ISBN: 978-3-540-65012-6