

# Preface

This volume contains the papers presented at the Eighth International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2001), held on December 3-7, 2001, at the University of Havana (Cuba), together with the Second International Workshop on Implementation of Logics.

There were 112 submissions, of which 19 belonged to the special submission category of experimental papers, intended to describe implementations or comparisons of systems, or experiments with systems. Each submission was reviewed by at least three program committee members and an electronic program committee meeting was held via the Internet. The high number of submissions caused a large amount of work, and we are very grateful to the other 31 PC members for their efficiency and for the quality of their reviews and discussions.

Finally, the committee decided to accept 40 papers in the theoretical category, and 9 experimental papers. In addition to the refereed papers, this volume contains an extended abstract of the invited talk by Frank Wolter. Two other invited lectures were given by Matthias Baaz and Manuel Hermenegildo.

Apart from the program committee, we would also like to thank the other people who made LPAR 2001 possible: the additional referees; the Local Arrangements Chair Luciano García; Andrés Navarro and Òscar Güell, who ran the internet-based submission software and the program committee discussion software at the LSI Department lab in Barcelona; and Bill McCune, whose program committee management software was used.

October 2001

Robert Nieuwenhuis  
Andrei Voronkov

# Conference Organization

## Program Chairs

Robert Nieuwenhuis (Technical University of Catalonia)  
Andrei Voronkov (University of Manchester)

## Program Committee

Franz Baader (Technische Universität Dresden)  
Maurice Bruynooghe (Katholieke Universiteit Leuven)  
Jan Van den Bussche (Limburgs Universitair Centrum)  
Thierry Coquand (Göteborgs Universitet)  
Patrick Cousot (ENS Paris)  
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Jürgen Dix (University of Manchester)  
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Javier Esparza (University of Edinburgh)  
Alan Frish (University of York)  
Harald Ganzinger (Max-Planck Institut, Saarbrücken)  
Georg Gottlob (Technische Universität Wien)  
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John Harrison (Intel Research)  
Neil Immerman (University of Massachusetts)  
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Deepak Kapur (University of New Mexico)  
Hans Kleine Büning (Universität Paderborn)  
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Giorgio Levi (Università di Pisa)  
Fabio Massacci (Università di Siena)  
Tobias Nipkow (Technische Universität München)  
Mitsuhiro Okada (Keio University)  
Leszek Pacholski (Wroclawski Uniwersytet)  
Michel Parigot (Université Paris 7)  
Frank Pfenning (Carnegie Mellon University)  
Maarten de Rijke (Universiteit van Amsterdam)  
Natarajan Shankar (SRI International)  
Wolfgang Thomas (RWTH Aachen)  
Moshe Vardi (Rice University)

## Local Organization

Luciano Garcia (Universidad de la Habana)

**List of Referees**

Maria Alpuente	Gianluca Amato	Ofer Arieli
Roberto Bagnara	Richard Banach	Chitta Baral
Gertrud Bauer	Peter Baumgartner	Robert Baumgartner
Chantal Berline	Gerd Beuster	Piero Bonatti
Julian Bradfield	Stefan Brass	Antonio Brogi
Chad Brown	Marco Cadoli	Diego Calvanese
Iliano Cervesato	Kaustuv Chaudhuri	Henry Chinaski
Carl Christian	Roy Crole	Steven Dawson
Frederiksen	Emmanuel De Mot	Giuseppe De Giacomo
Alvaro del Val	Giorgio Delzanno	Bart Demoen
Agostino Dovier	Lyndon Drake	Uwe Egly
Amy Felty	Chris Fermueller	Maurizio Gabbrielli
Didier Galmiche	Paul Gastin	Juergen Giesl
Enrico Giunchiglia	Roberta Gori	Martin Grohe
Michael Hanus	James Harland	Juan Heguiabehere
Tamir Heyman	Thomas Hillenbrand	Martin Hofmann
Tetsuo Ida	Tomi Janhunen	David Janin
Gerda Janssens	A. John Power	Hirofumi Katsuno
Andrzej Kisielewicz	Felix Klaedtke	Gerwin Klein
Christoph Koch	Michael Kohlhase	Ralf Kuester
Orna Kupferman	Gerhard Lakemeyer	Javier Larrosa
Paolo Liberatore	Christof Loeding	Christoph Lueth
Thomas Lukasiewicz	Monika Maidl	Henning Makholm
Pascal Manoury	Victor Marek	Ian Miguel
Torben Mogensen	Peter Møller Neergaard	Sara Negri
Hans de Nivelle	Damian Niwinski	Kazuhiro Ogata
Nikolay Pelov	Jens Peter Secher	Axel Polleres
David Pym	Riccardo Rosati	Paul Roziere
Harald Ruess	Salvatore Ruggieri	Tatiana Rybina
David Rydeheard	Ken Satoh	Ulrike Sattler
Francesco Scarcello	Andrea Schalk	Torsten Schaub
Francesca Scozzari	Dietmar Seipel	Dan Sheridan
Viorica Sofronie-	Chin Soon Lee	Colin Sterling
Stokkermans	Frieder Stolzenburg	Terry Swift
Kazushige Terui	Sven Thiel	Michael Thielscher
Ashish Tiwari	Hans Tompits	Iddo Tzameret
Christian Urban	Bert Van Nuffelen	Wim Vanhoof
Helmut Veith	Sofie Verbaeten	Luca Vigano
Uwe Waldmann	Toby Walsh	Igor Walukiewicz
Markus Wenzel	Emil Weydert	Stefan Woehrle
Frank Wolter		

## Conferences Preceding LPAR 2001

RCLP'90, Irkutsk, Soviet Union

RCLP'91, Leningrad, Soviet Union, aboard the ship "Michail Lomonosov"

LPAR'92, St. Petersburg, Russia, aboard the ship "Michail Lomonosov"

LPAR'93, St. Petersburg, Russia

LPAR'94, Kiev, Ukraine, aboard the ship "Marshal Koshevoi"

LPAR'99, Tbilisi, Republic of Georgia

LPAR 2000, Reunion Island, France