

# Preface

This volume constitutes the proceedings of the *2nd International Joint Conference on Automated Reasoning* (IJCAR 2004) held July 4–8, 2004 in Cork, Ireland. IJCAR 2004 continued the tradition established at the first IJCAR in Siena, Italy in 2001, which brought together different research communities working in automated reasoning. The current IJCAR is the fusion of the following conferences:

**CADE:** The International Conference on Automated Deduction,  
**CALCULEMUS:** Symposium on the Integration of Symbolic Computation and Mechanized Reasoning,  
**FroCoS:** Workshop on Frontiers of Combining Systems,  
**FTP:** The International Workshop on First-Order Theorem Proving, and  
**TABLEAUX:** The International Conference on Automated Reasoning with Analytic Tableaux and Related Methods.

There were 74 research papers submitted to IJCAR as well as 12 system descriptions. After extensive reviewing, 26 research papers and 6 system descriptions were accepted for presentation at the conference and publication in this volume. In addition, this volume also contains papers from the three invited speakers and a description of the CADE ATP system competition.

We would like to acknowledge the enormous amount of work put in by the members of the program committee, the various organizing and steering committees, the IJCAR officials, the invited speakers, and the additional referees named on the following pages. We would also like to thank Achim Brucker and Barbara Geiser for their help in producing this volume.

## Conference Chair and Local Organization

Toby Walsh (UCC, Ireland)  
Barry O’Sullivan (UCC, Ireland)

## Program Committee Chairs

David Basin (ETH Zürich, Switzerland)  
Michaël Rusinowitch (LORIA and INRIA Lorraine, France)

## Program Committee

Alessandro Armando	University of Genoa, Italy
Franz Baader	TU Dresden, Germany
Christoph Benz Müller	Saarland University, Germany
Armin Biere	ETH Zürich, Switzerland
Maria Paola Bonacina	Università degli Studi di Verona, Italy
Ricardo Caferra	LEIBNIZ-IMAG, France
Marta Cialdea Mayer	University of Rome, Italy
Nachum Dershowitz	Tel Aviv University, Israel
David Dill	Stanford University, USA
Amy Felty	University of Ottawa, Canada
Rajeev Goré	ANU Canberra, Australia
Bernhard Gramlich	TU Wien, Austria
Philippe de Groote	INRIA, France
Reiner Hähnle	Chalmers University, Sweden
Andreas Herzig	IRIT, France
Ian Horrocks	University of Manchester, UK
Jieh Hsiang	National Taiwan University, Taiwan
Deepak Kapur	University of New Mexico, USA
Claude Kirchner	LORIA and INRIA Lorraine, France
Reinhold Letz	TU München, Germany
Chris Lynch	Clarkson University, USA
Aart Middeldorp	University of Innsbruck, Austria
Hans Jürgen Ohlbach	LMU München, Germany
Paliath Narendran	SUNY Albany, USA
Tobias Nipkow	TU München, Germany
Leszek Pacholski	Wroclaw University, Poland
Frank Pfenning	Carnegie Mellon University, USA
David Plaisted	University of North Carolina, USA
Roberto Sebastiani	University of Trento, Italy

John Slaney	ANU Canberra, Australia
Viorica Sofronie-Stokkermans	Max-Planck-Institut, Germany
Ashish Tiwari	SRI International, USA
Ralf Treinen	ENS Cachan, France
Andrei Voronkov	University of Manchester, UK
Wolfgang Windsteiger	RISC Linz, Austria

## Invited Speakers

Georg Gottlob (TU Wien, Austria)  
 José Meseguer (University of Illinois at Urbana-Champaign, USA)  
 Volker Weispfenning (University of Passau, Germany)

## IJCAR Officials

**Conference Chair:** Toby Walsh (UCC, Ireland)

**Program Committee Chairs:**

David Basin (ETH Zürich, Switzerland)  
 Michaël Rusinowitch (LORIA and INRIA Lorraine, France)

**Workshop Chair:** Peter Baumgartner (Max-Planck-Institut, Germany)

**Tutorial Chair:** William Farmer (McMaster University, Canada)

**Publicity Chair:**

Maria Paola Bonacina (Università degli Studi di Verona, Italy)

**IJCAR Steering Committee:**

Alessandro Armando (University of Genoa, Italy)  
 David Basin (ETH Zürich, Switzerland)  
 Christoph Benz Müller (Saarland University, Germany)  
 Maria Paola Bonacina, Coordinator (Università degli Studi di Verona, Italy)  
 Ulrich Furbach (University of Koblenz-Landau, Germany)  
 Reiner Hähnle (Chalmers University, Sweden)  
 Fabio Massacci (University of Trento, Italy)  
 Michaël Rusinowitch (LORIA and INRIA Lorraine, France)  
 Toby Walsh (UCC, Ireland)

**Local Organization:** Barry O’Sullivan (UCC, Ireland)

**Web page:** Brahim Hnich (UCC, Ireland)

**Registration:** Eleanor O’Hanlon (UCC, Ireland)

## IJCAR Sponsors

IJCAR gratefully acknowledges the sponsorship of:

Science Foundation Ireland  
 Cork Constraint Computation Centre  
 University College Cork

**Additional Referees**

Pietro Abate	Jean Goubault-Larrecq	François Puitg
Husam Abu-Haimed	Elsa L. Gunter	Stefan Ratschan
Andrew A. Adams	Volker Haarslev	Antoine Reilles
Peter Andrews	Ziyad Hanna	Alexandre Riazanov
Jürgen Avenhaus	John Harrison	Christophe Ringeissen
Jeremy Avigad	Miki Hermann	Riccardo Rosati
Arnaud Bailly	Thomas Hillenbrand	Markus Rosenkranz
Sebastian Bala	Nao Hirokawa	Pawel Rychlikowski
Gertrud Bauer	Joe Hurd	Mooly Sagiv
Peter Baumgartner	Ullrich Hustadt	Sriram Sankaranayanan
Bernhard Beckert	Predrag Janičić	Ulrike Sattler
Arnold Beckmann	Tudor Jebelean	Francesco Savelli
Ramon Bejar	Tommi Juntilla	Steffen Schlager
Sergey Berezin	Lukasz Kaiser	Manfred
Thierry Boy de la Tour	Jaap Kamps	Schmidt-Schauss
Chad Brown	Emanuel Kieroński	Christian Schulte
Bruno Buchberger	Michael Kohlhase	Klaus U. Schulz
Claudio Castellini	Tomasz Kowalski	Johann Schumann
Serenella Cerrito	Temur Kutsia	Maria Sorea
Iliano Cervesato	Francis Kwong	Gernot Stenz
Witold Charatonik	Lei Li	Jürgen Stuber
Szu-Pei Chen	Denis Lugiez	Lidia Tendera
Alessandro Cimatti	Carsten Lutz	Sergio Tessaris
Luca Compagna	Jacopo Mantovani	Tinko Tinchev
Evelyne Contejean	Felip Manyà	Cesare Tinelli
Karl Crary	João Marcos	Stefano Tonetta
Stéphane Demri	Mircea Marin	Tomasz Truderung
Michael Dierkes	William McCune	Xavier Urbain
Jürgen Dix	Andreas Meier	Sandor Vagvolgyi
Roy Dyckhoff	Gopalan Nadathur	Miroslav Velev
Germain Faure	Robert Nieuwenhuis	Laurent Vigneron
Christian Fermüller	Hans de Nivelle	Lida Wang
Murdoch Gabbay	Greg O’Keefe	Freek Wiedijk
Olivier Gasquet	Michio Oyamaguchi	Claus-Peter Wirth
Thomas Genet	Jeff Pan	Richard Zach
Rosella Gennari	Fabrice Parennes	Hantao Zhang
Silvio Ghilardi	Lawrence Paulson	Yunshan Zhu
Giuseppe de Giacomo	Nicolas Peltier	
Laura Giordano	Martin Pollet	



<http://www.springer.com/978-3-540-22345-0>

Automated Reasoning

Second International Joint Conference, IJCAR 2004,

Cork, Ireland, July 4-8, 2004, Proceedings

Basin, D.; Rusinowitch, M. (Eds.)

2004, XII, 491 p., Softcover

ISBN: 978-3-540-22345-0