Automated Reasoning

First International Joint Conference, IJCAR 2001
Siena, Italy, June 18-22, 2001
Proceedings
Foreword

The last ten years have seen a gradual fragmentation of the Automated Reasoning community into various disparate groups, each with its own conference: the Conference on Automated Reasoning (CADE), the International Workshop on First-Order Theorem Proving (FTP), and the International Conference on Automated Reasoning with Analytic Tableau and Related Methods (TABLEAUX) to name three. During 1999, various members of these three communities discussed the idea of holding a joint conference in 2001 to bring our communities together again. The plan was to hold a one-off conference for 2001, to be repeated if it proved a success. This volume contains the papers presented at the resulting event: the first International Joint Conference on Automated Reasoning (IJCAR 2001), held in Siena, Italy, from June 18–23, 2001.

We received 88 research papers and 24 systems descriptions as submissions. Each submission was fully refereed by at least three peers who were asked to write a report on the quality of the submissions. These reports were accessible to members of the programme committee via a web-based system specially designed for electronic discussions. As a result we accepted 37 research papers and 19 system descriptions, which make up these proceedings. In addition, this volume contains full papers or extended abstracts from the five invited speakers.

Ten one-day workshops and four tutorials were held during IJCAR 2001. The automated theorem proving system competition (CASC) was organized by Geoff Sutcliffe to evaluate the performance of sound, fully automatic, classical, first-order automated theorem proving systems. The third Workshop on Inference in Computational Semantics (ICoS-3) and the 9th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning (CALCULEMUS-2001) were co-located with IJCAR 2001, and held their own associated workshops and produced their own separate proceedings.

We would like to acknowledge the enormous amount of work put in by the members of the program committee, the various steering committees, the IJCAR officials, and additional referees named on the following pages. In particular, we would like to thank Fabio Massacci and Marco Baioletti for organizing the conference itself, Gernot Salzer for installing and maintaining the software for our web-based reviewing procedure, and Gertrud Bauer for assembling these proceedings. Finally, we thank the sponsors named on the following pages for their financial support.

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April 2001
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Helmut Schwichtenberg (Univ. München, Germany)
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Table of Contents

Invited Talks

Program Termination Analysis by Size-Change Graphs ................. 1
   Neil D. Jones

SET Cardholder Registration: the Secrecy Proofs ..................... 5
   Lawrence C. Paulson

Algorithms, datastructures and other issues in efficient automated deduction 13
   Andrei Voronkov

Description, Modal and Temporal Logics

The Description Logic $ALCN\mathcal{H}_{R^+}$ Extended with Concrete Domains: A Practically Motivated Approach ........................................ 29
   Volker Haarslev, Ralf Möller, Michael Wessel

$N\text{ExpTime}$-complete Description Logics with Concrete Domains .......... 44
   Carsten Lutz

Exploiting Pseudo Models for TBox and ABox Reasoning in Expressive Description Logics ................................................... 59
   Volker Haarslev, Ralf Möller, Anni-Yasmin Turhan

The Hybrid $\mu$-Calculus .................................................. 74
   Ulrike Sattler, Moshe Y. Vardi

The Inverse Method Implements the Automata Approach for Modal Satisfiability ................................................................. 89
   Franz Baader, Stephan Tobies

Deduction-based Decision Procedure for a Clausal Miniscoped Fragment of FTL ................................................................. 104
   Regimantas Pliuškevičius

Tableaux for temporal description logic with constant domains........... 119
   Carsten Lutz, Holger Sturm, Frank Wolter, Michael Zakharyaschev

Free-Variable Tableaux for Constant-Domain Quantified Modal Logics with Rigid and Non-Rigid Designation .......................... 134
   Serenella Cerrito, Marta Cialdea Mayer

Saturation Based Theorem Proving, Applications and Data Structures

Instructing equational set-reasoning with Otter .......................... 149
   Andrea Formisano, Eugenio G. Omodeo, Marco Temperini
NP-Completeness of Refutability by Literal-Once Resolution 164
  Stefan Szeider

Ordered Resolution vs. Connection Graph Resolution 178
  Reiner Hähnle, Neil V. Murray, Erik Rosenthal

A Model-based Completeness Proof of Extended Narrowing And Resolution 191
  Jürgen Stuber

A Resolution-Based Decision Procedure for the Two-Variable Fragment
with Equality 206
  Hans de Nivelle, Ian Pratt-Hartmann

Superposition and Chaining for Totally Ordered Divisible Abelian Groups 221
  Uwe Waldmann

Context Trees 236
  Harald Ganzinger, Robert Nieuwenhuis, Pilar Nivela

On the Evaluation of Indexing Techniques for Theorem Proving 251
  Robert Nieuwenhuis, Thomas Hillenbrand, Alexandre Riazanov, Andrei Voronkov

Logic Programming and Nonmonotonic Reasoning

Preferred Extensions of Argumentation Frameworks: Query Answering and
Computation 266
  Sylvie Doutre, Jerome Mengin

Bunched Logic Programming 281
  Pablo A. Armelín, David J. Pym

A Top-down Procedure for Disjunctive Well-founded Semantics 296
  Kewen Wang

System Description: A Second-order Theorem Prover applied to Circumscription 309
  Michael Beeson

System Description: NoMoRe: A System for Non-Monotonic Reasoning
with Logic Programs under Answer Set Semantics 316
  Christian Anger, Kathrin Konczak, Thomas Linke

Propositional Satisfiability and Quantified Boolean Logic

Conditional Pure Literal Graphs 321
  Marco Benedetti
Evaluating search heuristics and optimization techniques in propositional satisfiability ................................................................. 336
  Enrico Giunchiglia, Massimo Maratea, Armando Tacchella, Davide Zambonin

System Description: QuBE: A system for deciding Quantified Boolean Formulas Satisfiability .................................................... 351
  Enrico Giunchiglia, Massimo Narizzano, Armando Tacchella

System Description: E 0.61 ................................................................. 356
  Stephan Schulz

System Description: Vampire 1.1 .................................................. 361
  Alexandre Riazanov, Andrei Voronkov

System Description: DCTP: A Disconnection Calculus Theorem Prover 366
  Reinhold Letz, Gernot Stenz

Logical Frameworks, Higher-Order Logic, Interactive Theorem Proving

More On Implicit Syntax .............................................................. 371
  Marko Luther

Termination and Reduction Checking for Higher-Order Logic Programs ... 386
  Brigitte Pientka

System Description: P.rex: An Interactive Proof Explainer .............. 401
  Armin Fiedler

System Description: JProver: Integrating Connection-based Theorem Proving into Interactive Proof Assistants ............................. 406
  Stephan Schmitt, Lori Lorigo, Christoph Kreitz, Aleksey Nogin

Semantic Guidance

The eXtended Least Number Heuristic ........................................ 411
  Gilles Audemard, Laurent Henocque

System Description: SCOTT-5 ..................................................... 426
  Kahlil Hodgson, John Slaney

System Description: Combination of distributed search and multi-search in Peers-mcd.d .......................................................... 431
  Maria Paola Bonacina

System Description: Lotrec: The Generic Tableau Prover for Modal and Description Logics ......................................................... 436
  Luis Farinas del Cerro, David Fauthoux, Olivier Gasquet, Andreas Herzig, Dominique Longin, Fabio Massacci
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Description:</strong> The ModProf Theorem Prover</td>
<td>441</td>
</tr>
<tr>
<td>Jens Happe</td>
<td></td>
</tr>
<tr>
<td><strong>System Description:</strong> A New System and Methodology for Generating</td>
<td>446</td>
</tr>
<tr>
<td>Random Modal Formulae</td>
<td></td>
</tr>
<tr>
<td>Peter F. Patel-Schneider, Roberto Sebastiani</td>
<td></td>
</tr>
<tr>
<td><strong>Equational Theorem Proving and Term Rewriting</strong></td>
<td></td>
</tr>
<tr>
<td>Decidable Classes of Inductive Theorems</td>
<td>451</td>
</tr>
<tr>
<td>Jürgen Giesl, Deepak Kapur</td>
<td></td>
</tr>
<tr>
<td>Automated Incremental Termination Proofs for Hierarchically Defined</td>
<td>466</td>
</tr>
<tr>
<td>Term Rewriting Systems</td>
<td></td>
</tr>
<tr>
<td>Xavier Urbain</td>
<td></td>
</tr>
<tr>
<td>Decidability and Complexity of Finitely Closable Linear Equational</td>
<td>481</td>
</tr>
<tr>
<td>Theories</td>
<td></td>
</tr>
<tr>
<td>Christopher Lynch, Barbara Morawska</td>
<td></td>
</tr>
<tr>
<td>A New Meta-Complexity Theorem for Bottom-up Logic Programs</td>
<td>496</td>
</tr>
<tr>
<td>Harald Ganzinger, David McAllester</td>
<td></td>
</tr>
<tr>
<td><strong>Tableau, Sequent, Natural Deduction Calculi and Proof Theory</strong></td>
<td></td>
</tr>
<tr>
<td>Canonical Propositional Gentzen-Type Systems</td>
<td>511</td>
</tr>
<tr>
<td>Arnon Avron, Iddo Lev</td>
<td></td>
</tr>
<tr>
<td>Incremental Closure of Free Variable Tableaux</td>
<td>526</td>
</tr>
<tr>
<td>Martin Giese</td>
<td></td>
</tr>
<tr>
<td>Deriving Modular Programs from Short Proofs</td>
<td>541</td>
</tr>
<tr>
<td>Uwe Egly, Stephan Schmitt</td>
<td></td>
</tr>
<tr>
<td>A General Method for Using Schematizations in Automated Deduction</td>
<td>556</td>
</tr>
<tr>
<td>Nicolas Peltier</td>
<td></td>
</tr>
<tr>
<td><strong>Automata, Specification, Verification and Logics of Programs</strong></td>
<td></td>
</tr>
<tr>
<td>Approximating Dependency Graphs using Tree Automata Techniques</td>
<td>571</td>
</tr>
<tr>
<td>Aart Middeldorp</td>
<td></td>
</tr>
<tr>
<td>On the Use of Weak Automata for Deciding Linear Arithmetic with</td>
<td>588</td>
</tr>
<tr>
<td>Integer and Real Variables</td>
<td></td>
</tr>
<tr>
<td>Bernard Boigelot, Sébastien Jodogne, Pierre Wolper</td>
<td></td>
</tr>
<tr>
<td>A Sequent Calculus for First-order Dynamic Logic with Trace Modalities</td>
<td>603</td>
</tr>
<tr>
<td>Bernhard Beckert, Steffen Schlager</td>
<td></td>
</tr>
</tbody>
</table>
Flaw Detection in Formal Specifications .......................... 618
  W. Reif, G. Schellhorn, A. Thums

System Description: CCE: Testing Ground Joinability ........ 633
  Jürgen Avenhaus, Bernd Löchner

System Description: RDL: Rewrite and Decision procedure Laboratory. 638
  Alessandro Armando, Luca Compagna, Silvio Ranise

Nonclassical Logics

lolliCoP – A Linear Logic Implementation of a Lean Connection-Method
  Theorem Prover for First-Order Classical Logic .................. 645
  Joshua S. Hodas, Naoyuki Tamura

System Description: MUSCADET 2.3: A Knowledge-based Theorem Prover
  Based on Natural Deduction ........................................ 660
  Dominique Pastre

System Description: Hilberticus - a Tool Deciding an Elementary Sub-
  language of Set Theory ............................................... 665
  Jörg Lücke

System Description: STRIP: Structural sharing for efficient proof-search 670
  D. Larchey-Wendling, D. Méry, D. Galmiche

System Description: RACER ........................................... 675
  Volker Haarslev, Ralf Möller

Author Index ............................................................. 681