

# Lecture Notes in Artificial Intelligence 8123

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# Automated Reasoning with Analytic Tableaux and Related Methods

22nd International Conference, TABLEAUX 2013

Nancy, France, September 16-19, 2013

Proceedings



Springer

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ISSN 0302-9743 e-ISSN 1611-3349  
ISBN 978-3-642-40536-5 e-ISBN 978-3-642-40537-2  
DOI 10.1007/978-3-642-40537-2  
Springer Heidelberg New York Dordrecht London

Library of Congress Control Number: 2013946041

CR Subject Classification (1998): I.2.3, F.4.1-2, I.2, F.2, D.1.6, D.2.4, G.2

LNCS Sublibrary: SL 7 – Artificial Intelligence

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*Typesetting:* Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

# Preface

This volume contains the research papers presented at the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX 2013) held September 16–19, 2013, in Nancy, France. This conference was the 22nd in a series of international meetings held since 1992 (listed on page VIII) and was co-located with FroCoS 2013, the International Symposium on Frontiers of Combining Systems.

The Program Committee of TABLEAUX 2013 received 38 submissions. Each paper was reviewed by at least three referees, and following a thorough and lively online discussion phase, 20 research papers including four system descriptions were accepted based on their originality, technical soundness, presentation, and relevance to the conference. We would like to sincerely thank both all the authors for their submissions and the members of the Program Committee and additional referees for their great effort and professional work in the review and selection process.

In addition to the contributed papers, the program included three keynote talks: Stéphane Demri (CIMS New York & LSV – ENS Cachan), common with FroCoS 2013, Sara Negri (University of Helsinki) and Tobias Nipkow (Technische Universität München). There were also two tutorials: “Noetherian Induction for First-Order Reasoning,” by Sorin Stratulat (LITA, Université de Lorraine) and “Generating Tableau Provers Using MetTeL2,” by Dmitry Tishkovsky and Renate A. Schmidt (School of Computer Science, University of Manchester). Two workshops were held in conjunction with TABLEAUX 2013: “Third Workshop of the Amadeus Project on Proof Compression,” organized by Pascal Fontaine (INRIA Nancy – Grand-Est, LORIA, Université de Lorraine) and Bruno Woltzenlogel Paleo (Theory and Logic Group, Vienna University of Technology) and the Workshop “Logics for Resources, Processes and Programs,” organized by David Pym (University of Aberdeen) and Didier Galmiche (LORIA – Université de Lorraine).

We would like to thank the members of the Organizing Committee for their much appreciated support and expertise, and the Conference Chair and Program Committee Chairs of FroCoS 2013 for our fruitful discussions and smooth coordination of the co-located events.

Finally, we would like to thank our sponsors for their generous and very welcome support: Région Lorraine, Communauté Urbaine du Grand Nancy, Université de Lorraine, CNRS, INRIA and LORIA. We would also like to acknowledge the [easychair.org](http://easychair.org) conference management system that greatly facilitated the smooth running of the review and selection process.

July 2013

Didier Galmiche  
Dominique Larchey-Wendling

# Organization

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## Previous Conferences

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1992 Lautenbach, Germany          | 2003 Rome, Italy                    |
| 1993 Marseille, France            | 2004 Cork, Ireland (part of IJCAR)  |
| 1994 Abingdon, UK                 | 2005 Koblenz, Germany               |
| 1995 St. Goar, Germany            | 2006 Seattle, USA (part of IJCAR)   |
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| 1999 Saratoga Springs, USA        | 2010 Edinburgh, UK (part of IJCAR)  |
| 2000 St Andrews, UK               | 2011 Bern, Switzerland              |
| 2001 Siena, Italy (part of IJCAR) | 2012 Manchester, UK (part of IJCAR) |
| 2002 Copenhagen, Denmark          |                                     |

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