

# 23rd International Conference on Rewriting Techniques and Applications

RTA'12, May 30–June 1, 2012, Nagoya, Japan

Edited by

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## ■ Preface

The 23rd International Conference on Rewriting Techniques and Applications (RTA 2012) was held from May 28 to June 2, 2012, in Nagoya, Japan. This proceedings volume contains the contributed papers and extended abstracts of invited talks presented at the conference.

RTA is the major forum for the presentation of research on all aspects of rewriting. Previous RTA conferences were held in Dijon (1985), Bordeaux (1987), Chapel Hill (1989), Como (1991), Montreal (1993), Kaiserslautern (1995), Rutgers (1996), Sitges (1997), Tsukuba (1998), Trento (1999), Norwich (2000), Utrecht (2001), Copenhagen (2002), Valencia (2003), Aachen (2004), Nara (2005), Seattle (2006), Paris (2007), Hagenberg/Linz (2008), Brasilia (2009), Edinburgh (2010), and Novi Sad (2011). RTA 2012 received 46 submissions (45 regular research papers and 1 system description), with contributing authors from 18 countries. We thank the authors of submitted papers for considering RTA for publishing their work.

The program committee consisted of 21 members from 8 countries. Each submitted paper was reviewed by at least 3 members of the Program Committee, with the help of 69 external reviewers (who provided a total of 74 reviews). After intense discussions and debates, a total of 22 regular research papers were accepted for publication. We thank all the members of the program committee, as well as all external reviewers for their hard work and critical comments.

On behalf of the Program Committee, we are happy to present the best paper award to Kazushige Terui for the paper “Semantic evaluation, intersection types and complexity of simply typed lambda calculus”. In addition to the contributed papers, the RTA program also consisted of three invited talks: “Computational Real Algebraic Geometry in Practice” by Hirokazu Anai, “Rho-calculi for computation and logic” by Claude Kirchner, and “Dictionary-Based Tree Compression” by Sebastian Maneth. We thank the invited speakers for enriching the conference with their talks and participation.

The entire reviewing process—consisting of paper submission, review assignments, electronic Program Committee discussion, and preparation of the proceedings—was handled seamlessly by Andrei Voronkov’s EasyChair system. We thank Andrei Voronkov and the EasyChair team for creating this invaluable tool and making it freely available.

Workshops associated with RTA 2012 included the Annual Meeting of the IFIP Working Group 1.6 on Term Rewriting, 1st International Workshop on Confluence (IWC 2012), 21st International Workshop on Functional and (Constraint) Logic Programming (WFLP 2012), 6th International Workshop on Higher-Order Rewriting (HOR 2012), and 1st International Workshop on Trends in Tree Automata and Tree Transducers (TTATT 2012). We thank the workshop organizers for enriching the technical program.

Many people helped make RTA 2012 a success. Our special thanks to Masahiko Sakai for doing an excellent job as the chair of the organizing committee. The organizing committee, consisting of Masahiko Sakai, Aart Middeldorp, Keiichirou Kusakari, Naoki Nishida and Nao Hirokawa, along with the rest of the local organization team, provided invaluable help in ensuring the success of the event.

The proceedings of RTA 2012 is being published as a volume in the LIPIcs series under a Creative Commons license, with free online access to all, and with authors retaining rights over their contributions. We wish to thank the editorial board of LIPIcs for agreeing to publish the current proceedings. Our special thanks to Marc Herbstritt from Schloss Dagstuhl, Leibniz Center for Informatics, for his very helpful and prompt support during production of the LIPIcs proceedings. We gratefully acknowledge his help and the help of

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Ashish Tiwari  
Menlo Park CA, April 2012



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