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Frank Pfenning (Ed.)

Term Rewriting and Applications

17th International Conference, RTA 2006
Seattle, WA, USA, August 12-14, 2006
Proceedings

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Volume Editor

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Preface

This volume contains the proceedings of the 17th International Conference on Rewriting Techniques and Applications, which was held on August 12–14, 2006 in Seattle, Washington, as part of of the 4th Federated Logic Conference (FLoC). RTA is the major forum for the presentation of research on all aspects of rewriting. Previous RTA conferences took place in Dijon (1985), Bordeaux (1987), Chapel Hill (1989), Como (1991), Montreal (1993), Kaiserslautern (1995), New Brunswick (1996), Sitges (1997), Tsukuba (1998), Trento (1999), Norwich (2000), Utrecht (2001), Copenhagen (2002), Valencia (2003), Aachen (2004), and Nara (2005).

A total of 23 regular papers and 4 system descriptions were selected for presentation from 52 submissions. Each paper was reviewed by at least 4 members of the Program Committee, with the help of 115 external referees. The committee decided to give the Best Paper Award for RTA 2006 to the contribution "Termination of String Rewriting with Matrix Interpretations" by Dieter Hofbauer and Johannes Waldmann for their original and powerful application of SAT solving in proving termination.

I would like to thank all the members of the Program Committee for their diligent, careful, and timely work and thoughtful deliberation, and Andrei Voronkov for providing the EasyChair system which greatly facilitated the reviewing process, the electronic Program Committee meeting, and the preparation of the program and the proceedings.

In addition to contributed papers, the program contained a FLoC plenary talk by Randal Bryant and two invited talks by Javier Esparza and Jürgen Giesl. I would like to thank the invited speakers not only for their presentations, but also for contributing abstracts or full papers to the proceedings.

RTA also sponsored a number of workshops held during FLoC, on the topics of Higher-Order Rewriting (HOR), Rule-Based Programming (RULE), Unification (UNIF), Reduction Strategies in Rewriting and Programming (WRS), Termination (WST), and a meeting of the IFIP Working Group 1.6 on Term Rewriting.

Many people helped to make RTA 2006 a success. I am particularly grateful to Ashish Tiwari, who took on the dual role of Conference Chair and RTA Workshop Chair, Ralf Treinen, the Publicity Chair, and Thomas Ball, Gopal Gupta, Jakob Rehof, and Moshe Vardi from the FLoC Organizing Committee who did an incredible amount of work in the arrangements for RTA and FLoC.

May 2006 Frank Pfenning

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