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# Typed Lambda Calculi and Applications

9th International Conference, TLCA 2009  
Brasília, Brazil, July 1-3, 2009  
Proceedings

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# Preface

This volume contains the papers of the 9th International Conference on Typed Lambda Calculi and Applications (TLCA 2009), which was held from July 1–3, 2009, in Brasília, Brazil, as part of the 5th International Conference on Rewriting, Deduction, and Programming (RDP 2009) together with the International Conference on Rewriting Techniques and Applications (RTA 2009), the International School on Rewriting (ISR 2009), the 4th Workshop on Logical and Semantic Frameworks with Applications (LSFA 2009), the 10th International Workshop on Rule-Based Programming (RULE 2009), the 8th International Workshop on Functional and (Constraint) Logic Programming (WFLP 2009), the 9th International Workshop on Reduction Strategies in Rewriting and Programming (WRS 2009), and the annual meeting of the IFIP Working Group 1.6 on term rewriting.

The TLCA series of conferences serves as a forum for presenting original research results that are broadly relevant to the theory and applications of lambda-calculus. Typed lambda-calculi are underlying programming language semantics and implementation on one hand, and a large part of proof theory on the other hand. Previous TLCA conferences were held in Utrecht (1993), Edinburgh (1995), Nancy (1997), L’Aquila (1999), Kraków (2001), Valencia (2003), Nara (2005), and Paris (2007).

For TLCA 2009, 27 papers were accepted out of 53 submissions. Each paper was reviewed by at least three members of the Program Committee, with the help of 84 external reviewers. I would like to thank the members of the Program Committee and the external reviewers for their great work, as well as Andrei Voronkov for providing the EasyChair system which was invaluable in the reviewing process, the electronic Program Committee meeting, and the preparation of this volume.

In addition to the contributed papers, the TLCA program contained three invited talks by:

- Marcelo Fiore (abstract included in the proceedings)
- Robert Harper (joint with RTA 2009, abstract included in the proceedings)
- Jean-Louis Krivine (talk entitled “Ultrafilters and the Heap”)

Many people helped to make TLCA 2009 a success. I would like to thank in particular the Conference Chair Mauricio Ayala Rincón, the TLCA Publicity Chair Luca Paolini, and the local organization team, as well as the following sponsors: Universidade de Brasília, Brazilian Counsel of Technological and Scientific Development - CNPq, Brazilian Coordination for the Improvement of Higher Education Personnel - CAPES, and Federal District Research Foundation - FAPDF.

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