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Theorem Proving in Higher Order Logics

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Proceedings

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Preface

This volume constitutes the proceedings of the *16th International Conference on Theorem Proving in Higher Order Logics* (TPHOLs 2003) held September 8–12, 2003 in Rome, Italy. TPHOLs covers all aspects of theorem proving in higher order logics as well as related topics in theorem proving and verification.

TPHOLs 2003 was co-located with *TABLEAUX*, the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, and with *Calculemus*, the Symposium on the Integration of Symbolic Computation and Mechanized Reasoning.

There were 50 papers submitted to TPHOLs in the full research category, each of which was refereed by at least 3 reviewers, selected by the program committee. Of these submissions, 21 were accepted for presentation at the conference and publication in this volume. In keeping with tradition, TPHOLs 2003 also offered a venue for the presentation of work in progress, where researchers invite discussion by means of a brief preliminary talk and then discuss their work at a poster session. A supplementary proceedings containing associated papers for work in progress was published by the computer science department at the Universität Freiburg.

The organizers are grateful to Jean-Raymond Abrial, Patrick Lincoln, and Dale Miller for agreeing to give invited talks at TPHOLs 2003.

The TPHOLs conference traditionally changes continent each year in order to maximize the chances that researchers from around the world can attend. Starting in 1993, the proceedings of TPHOLs and its predecessor workshops have been published in the Springer-Verlag Lecture Notes in Computer Science series:

1993 (Canada)	780	1998 (Australia)	1479
1994 (Malta)	859	1999 (France)	1690
1995 (USA)	971	2000 (USA)	1869
1996 (Finland)	1125	2001 (UK)	2152
1997 (USA)	1275	2002 (USA)	2410

We would like to thank members of both the Freiburg and Zürich groups for their help in organizing the program. In particular, Achim Brucker, Barbara Geiser, and Paul Hankes Drielsma. We would also like to express our thanks to Marta Cialdea Mayer and her team for coordinating the local arrangements in Rome.

Finally, we thank our sponsors: Intel, ITT, ETH Zürich, and the Universität Freiburg. We also gratefully acknowledge the use of computing equipment from Universitá Roma III.

May 2003

David Basin, Burkhart Wolff
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