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Preface
The First CADE in the Third Millennium

This volume contains the papers presented at the Eighteenth International Conference on Automated Deduction (CADE-18) held on July 27–30th, 2002, at the University of Copenhagen as part of the Federated Logic Conference (FLoC 2002). Despite a large number of deduction-related conferences springing into existence at the end of the last millennium, the CADE conferences continue to be the major forum for the presentation of new research in all aspects of automated deduction. CADE-18 was sponsored by the Association for Automated Reasoning, CADE Inc., the Department of Computer Science at Chalmers University, the Gesellschaft für Informatik, Safelogic AB, and the University of Koblenz-Landau.

There were 70 submissions, including 60 regular papers and 10 system descriptions. Each submission was reviewed by at least five program committee members and an electronic program committee meeting was held via the Internet. The committee decided to accept 27 regular papers and 9 system descriptions. One paper switched its category after refereeing, thus the total number of system descriptions in this volume is 10. In addition to the refereed papers, this volume contains an extended abstract of the CADE invited talk by Ian Horrocks, the joint CADE/CAV invited talk by Sharad Malik, and the joint CADE-TABLEAUX invited talk by Matthias Baaz. One more invited lecture was given by Daniel Jackson.

Not covered in these proceedings are several important CADE-18 events. Four workshops and three tutorials were offered. The automated theorem-proving system competition (CASC-18) was organized by Geoff Sutcliffe. The Herbrand award for distinguished contributions to automated deduction was presented to Mark Stickel, in recognition of his many important contributions to our discipline.

I would like to thank the many people who made CADE-18 possible. Having CADE as part of FLoC incurred an unusually large amount of work on conference chair Reiner Hähnle and the tutorial and workshop chair Mateja Jamnik. Their efficient work saved several weeks, if not months, of my time. I am also grateful to: the CADE-18 publicity chair Peter Baumgartner, the FLoC organizers Henning Makholm and Sebastian Skalberg, the CASC organizer Geoff Sutcliffe, my fellow CADE Trustees, and last, but by no means least to the members of the Computer Science Department at Manchester, in particular Sergio Tessaris, Konstantin Korovin, Daphne Tregear, and Adrian Cummings.

May 2002 Andrei Voronkov

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