

Preface

The Second International Workshop on Automated Deduction in Geometry (ADG '98) was held in Beijing, China, August 1–3, 1998. An increase of interest in ADG '98 over the previous workshop ADG '96 is represented by the notable number of more than 40 participants from ten countries and the strong technical program of 25 presentations, of which two one-hour invited talks were given by Professors Wen-tsün Wu and Jing-Zhong Zhang. The workshop provided the participants with a well-focused forum for effective exchange of new ideas and timely report of research progress. Insight surveys, algorithmic developments, and applications in CAGD/CAD and computer vision presented by active researchers, together with geometry software demos, shed light on the features of this second workshop. ADG '98 was hosted by the Mathematics Mechanization Research Center (MMRC) with financial support from the Chinese Academy of Sciences and the French National Center for Scientific Research (CNRS), and was organized by the three co-editors of this proceedings volume.

The papers contained in the volume were selected, under a strict refereeing procedure, from those presented at ADG '98 and submitted afterwards. Most of the 14 accepted papers were carefully revised and some of the revised versions were checked again by external reviewers. We hope that these papers cover some of the most recent and significant research results and developments and reflect the current state-of-the-art of ADG.

We want to thank all those members of MMRC who contributed to the local organization of ADG '98 and the referees for their time and help. We also want to acknowledge some of the previous workshops and conferences and the corresponding publications listed below which have stimulated the continuing activities on ADG.

- International Workshop on Automated Deduction in Geometry (ADG '96) (Toulouse, France, September 27–29, 1996) — LNAI, vol. 1360 (edited by D. Wang), Springer-Verlag, Berlin Heidelberg New York, 1997
- Workshop on Algebraic Approaches to Geometric Reasoning (Castle of Weinberg, Austria, August 17–19, 1992) — Special issue of *Annals of Mathematics and Artificial Intelligence*, vol. 13, nos. 1–2 (edited by H. Hong, D. Wang and F. Winkler), Baltzer Sci. Publ., Amsterdam, 1995
- International Workshop on Mathematics Mechanization (Beijing, China, July 16–18, 1992) — *Proceedings* (edited by W.-T. Wu and M.-D. Cheng), Int. Academic Publ., Beijing, 1992
- Workshop on Computer-Aided Geometric Reasoning (INRIA Sophia-Antipolis, June 22–26, 1987) — *Proceedings* (edited by H. Crapo), INRIA Rocquencourt, France, 1987

- International Workshop on Geometric Reasoning (Oxford, UK, June 30 – July 3, 1986) — Special issue of Artificial Intelligence, vol. 37, nos. 1–3 (edited by D. Kapur and J. L. Mundy), MIT Press, Cambridge, 1988
- Asian Symposia on Computer Mathematics: ASCM '98 (Lanzhou, China, August 6–8, 1998) — Proceedings (edited by Z. Li), Lanzhou Univ. Press, Lanzhou, 1998; ASCM '96 (Kobe, Japan, August 20–22, 1996) — Proceedings (edited by H. Kobayashi), Scientists Inc., Tokyo, 1996; ASCM '95 (Beijing, China, August 18–20, 1995) — Proceedings (edited by H. Shi and H. Kobayashi), Scientists Inc., Tokyo, 1995

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