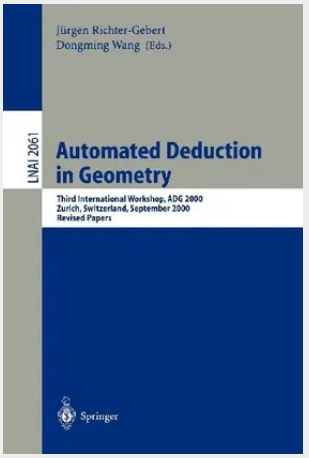
Richter-Gebert / Wang

Automated Deduction in Geometry

Third International Workshop, ADG 2000, Zurich, Switzerland, September 25-27, 2000, Revised Papers



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With a standard program committee and a pre-review process, the Third - ternational Workshop on Automated Deduction in Geometry (ADG 2000) held in Zurich, Switzerland, September 25–27, 2000 was made more formal than the previous ADG '96 (Toulouse, September 1996) and ADG '98 (Beijing, August 1998). The workshop program featured two invited talks given by Christoph M. Ho?mann and Jurgen ¨ Bokowski, one open session talk by Wen-tsun ¨ Wu, 18 regular presentations, and 7 short communications, together with software demonstrations (see http://calfor.lip6.fr/˜wang/ADG2000/). Some of the most recent and signi?cant research developments on geometric deduction were - ported and reviewed, and the workshop was well focused at a high scienti?c level. Fifteen contributions (out of the 18 regular presentations selected by the program committee from 31 submissions) and 2 invited papers were chosen for publication in these proceedings. These papers were all formally refereed and most of them underwent a double review-revision process. We hope that this volume meets the usual standard of international conference proceedings, rep- sentsthecurrentstateoftheartofADG,andwillbecomeavaluablereferencefor researchers, practitioners, software engineers, educators, and students in many ADG-related areas from mathematics to CAGD and geometric modeling. ADG2000washostedbytheDepartmentofComputerScience,ETHZurich.

On Spatial Constraint Solving Approaches.- A Hybrid Method for Solving Geometric Constraint Problems.- Solving the Birkhoff Interpolation Problem via the Critical Point Method: An Experimental Study.- A Practical Program of Automated Proving for a Class of Geometric Inequalities.- Randomized Xero Testing of Radical Expressions and Elementary Geometry Theorem Proving.- Algebraic and Semialgebraic Proofs: Methods and Paradoxes.- Remarks on Geometric Theorem Proving.- The Kinds of Truth of Geometry Theorems.- A Complex Change of Variables for Geometrical Reasoning.- Reasoning about Surfaces Using Differential Zero and Ideal Decomposition.- Effective Methods in Computational Synthetic Geometry.- Decision Complexity in Dynamic Geometry.- Automated Theorem Proving in Incidence Geometry - A Bracket Algebra Based Elimination Method.- Qubit Logic, Algebra and Geometry.- Nonstandard Geometric Proofs.- Emphasizing Human Techniques in Automated Geometry Theorem Proving: A Practical Realization.- Higher-Order Intuitionistic Formalization and Proofs in Hilbert's Elementary Geometry.

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