

1. Record Nr.	UNINA9910143602603321
Titolo	Automated Deduction in Geometry : Third International Workshop, ADG 2000, Zurich, Switzerland, September 25-27, 2000, Revised Papers // edited by Jürgen Richter-Gebert, Dongming Wang
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-45410-1
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (VIII, 328 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 2061
Disciplina	516/.00285
Soggetti	Artificial intelligence Geometry Application software Computer graphics Logic, Symbolic and mathematical Pattern perception Artificial Intelligence Computer Applications Computer Graphics Mathematical Logic and Formal Languages Pattern Recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	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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Sommario/riassunto

This book constitutes the thoroughly refereed post-proceedings of the Third International Workshop on Automated Deduction in Geometry, ADG 2000, held in Zurich, Switzerland, in September 2000. The 16 revised full papers and two invited papers presented were carefully selected for publication during two rounds of reviewing and revision from a total of initially 31 submissions. Among the issues addressed are spatial constraint solving, automated proving of geometric inequalities, algebraic proof, semi-algebraic proofs, geometrical reasoning, computational synthetic geometry, incidence geometry, and nonstandard geometric proofs.

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