

1. Record Nr.	UNINA9910483640303321
Titolo	Automated deduction in geometry : 6th International Workshop, ADG 2006, Pontevedra, Spain, August 31-September 2, 2006, Revised Papers : 6th International Workshop, ADG 2006, Pontevedra, Spain, August 31-September 2, 2006, revised papers // Francisco Botana, Tomas Recio (Eds.)
Pubbl/distr/stampa	Berlin ; ; Heidelberg : , : Springer, , [2007] ©2007
ISBN	3-540-77356-8
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (X, 218 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 6301
Disciplina	516.00285
Soggetti	Geometry - Data processing Automatic theorem proving
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Towards an Electronic Geometry Textbook -- Equidecomposable Quadratic Regions -- Automatic Verification of Regular Constructions in Dynamic Geometry Systems -- Recognition of Computationally Constructed Loci -- Algorithmic Search for Flexibility Using Resultants of Polynomial Systems -- Cylinders Through Five Points: Complex and Real Enumerative Geometry -- Detecting All Dependences in Systems of Geometric Constraints Using the Witness Method -- Automatic Discovery of Geometry Theorems Using Minimal Canonical Comprehensive Gröbner Systems -- Mechanical Theorem Proving in Tarski's Geometry -- On the Need of Radical Ideals in Automatic Proving: A Theorem About Regular Polygons -- A Maple Package for Automatic Theorem Proving and Discovery in 3D-Geometry -- Geometry Expressions: A Constraint Based Interactive Symbolic Geometry System -- Constructing a Tetrahedron with Prescribed Heights and Widths.
Sommario/riassunto	This book constitutes the thoroughly refereed post-proceedings of the 6th International Workshop on Automated Deduction in Geometry, ADG 2006, held at Pontevedra, Spain, in August/September 2006 as a satellite event of the International Congress of Mathematicians, ICM

2006. The 13 revised full papers presented were carefully selected from the submissions made due to a call for papers - within the scope of ADG - shortly after the meeting. The papers show the lively variety of topics and methods and the current applicability of automated deduction in geometry to different branches of mathematics and to other sciences and technologies.
