

1. Record Nr.	UNINA9910767507503321
Titolo	Computer algebra and geometric algebra with applications : 6th international workshop, IWMM 2004, Shanghai, China, May 19-21, 2004 and international workshop, GIAE 2004, Xian, China, May 24-28, 2004 : revised selected papers // Hongbo Li, Peter J. Olver, Gerald Sommer (eds.)
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, 2005
ISBN	3-540-32119-5 3-540-26296-2
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (IX, 449 p.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 3519
Altri autori (Persone)	LiHongbo OlverPeter J SommerGerald <1945->
Disciplina	512
Soggetti	Algebra - Data processing Computer algorithms Geometry, Algebraic
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 and index.
Nota di contenuto	pt. 1. Computer algebra and applications -- pt. 2. Geometric algebra and applications.
Sommario/riassunto	MathematicsMechanization consistsoftheory, softwareandapplicationofc- puterized mathematical activities such as computing, reasoning and discovering. ItsuniquefeaturecanbesuccinctlydescribedasAAA(Algebraization,Algori- mization, Application). The name "Mathematics Mechanization" has its origin in the work of Hao Wang (1960s), one of the pioneers in using computers to do research in mathematics, particularly in automated theorem proving. Since the 1970s, this research direction has been actively pursued and extensively dev- oped by Prof. Wen-tsun Wu and his followers. It di?ers from the closely related disciplines like Computer Mathematics, Symbolic Computation and Automated Reasoning in that its goal is to make algorithmic studies and applications of mathematics the major trend of mathematics

development in the information age. The International Workshop on Mathematics Mechanization (IWMM) was initiated by Prof. Wu in 1992, and has ever since been held by the Key Laboratory of Mathematics Mechanization (KLMM) of the Chinese Academy of Sciences. There have been seven workshops of the series up to now. At each workshop, several experts are invited to deliver plenary lectures on cutting-edge methods and algorithms of the selected theme. The workshop is also a forum for people working on related subjects to meet, collaborate and exchange ideas.
