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Soggetti	Commutative algebra
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	Algebra
	Field theory (Physics)
	Coding theory
	Computer science—Mathematics
	Algebraic geometry
	Commutative Rings and Algebras
	Field Theory and Polynomials
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	An algebraic method to compute the mobility of closed-loop overconstrained mechanisms (Ali, Moinet, Serre) Simplicial topological coding and homology of spin networks (Berec) Trial set and Groebner bases for binary codes (Borges-Quintana, Borges- Trenard, Martinez-Moro) Automated Study of Envelopes of 1- parameter Families of Surfaces (Dana-Picard, Zehavi) Complex Roots of Quaternion Polynomials (Dospra, Poulakis) Mathematical renormalization in quantum electrodynamics via noncommutative

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planetary system problem (Perminov, Kuznetsov) Code-Based Cryptosystems Using Generalized Concatenated Codes (Puchinger, Muelich, Ishak, Bossert) Univariate real root isolation over a single logarithmic extension of real algebraic numbers (Strzebonski, Tsigaridas) On the complexity of multivariate polynomial division (van der Hoeven) Preserving syntactic correctness while editing mathematical formulas (van der Hoeven, Lecerf, Raux) About balanced application of CAS in undergraduate mathematics (Varbanova) Some remarks on Taylor's polynomials visualization using Mathematica in context of function approximation (Wojas, Krupa) Zooming algorithms for accurate plotting of functions of two real
The Applications of Computer Algebra (ACA) conference covers a wide range of topics from Coding Theory to Differential Algebra to Quantam Computing, focusing on the interactions of these and other areas with the discipline of Computer Algebra. This volume provides the latest developments in the field as well as its applications in various domains,

Sommario/riassunto

book will appeal to researchers and professors of computer algebra, applied mathematics, and computer science, as well as to engineers and computer scientists engaged in research and development.