

Effective Methods in Algebraic Geometry

Edited by
Teo Mora
Carlo Traverso

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T. Mora,C. Traverso



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Effective Methods in Algebraic Geometry T. Mora, C. Traverso, 2013-11-10 The symposium MEGA 90 Effective Methods in Algebraic Geometry was held in Castiglioncello Livorno Italy in April 17-21 1990 The themes we quote from the Call for papers were the following Effective methods and complexity issues in commutative algebra projective geometry real geometry algebraic number theory Algebraic geometric methods in algebraic computing Contributions in related fields computational aspects of group theory differential algebra and geometry algebraic and differential topology etc were also welcome The origin and the motivation of such a meeting that is supposed to be the first of a series deserves to be explained The subject the theory and the practice of computation in algebraic geometry and related domains from the mathematical viewpoint has been one of the themes of the symposia organized by SIGSAM the Special Interest Group for Symbolic and Algebraic Manipulation of the Association for Computing Machinery SAME Symbolic and Algebraic Manipulation in Europe and AAEC the semantics of the name is varying an average meaning is Applied Algebra and Error Correcting Codes

Computational Methods in Commutative Algebra and Algebraic Geometry Wolmer Vasconcelos, 2004-05-18 This ACM volume deals with tackling problems that can be represented by data structures which are essentially matrices with polynomial entries mediated by the disciplines of commutative algebra and algebraic geometry The discoveries stem from an interdisciplinary branch of research which has been growing steadily over the past decade The author covers a wide range from showing how to obtain deep heuristics in a computation of a ring a module or a morphism to developing means of solving nonlinear systems of equations highlighting the use of advanced techniques to bring down the cost of computation Although intended for advanced students and researchers with interests both in algebra and computation many parts may be read by anyone with a basic abstract algebra course *Algorithms in Algebraic Geometry and Applications* Laureano Gonzalez-Vega, Recio Tomas, 2012-12-06 The present volume contains a selection of refereed papers from the MEGA 94

symposium held in Santander Spain in April 1994 They cover recent developments in the theory and practice of computation in algebraic geometry and present new applications in science and engineering particularly computer vision and theory of robotics The volume will be of interest to researchers working in the areas of computer algebra and symbolic computation as well as to mathematicians and computer scientists interested in gaining access to these topics

Foundations of Computational Mathematics Felipe Cucker, Michael Shub, 2012-12-06 This book contains a collection of articles corresponding to some of the talks delivered at the Foundations of Computational Mathematics conference held at IMPA in Rio de Janeiro in January 1997 Some of the others are published in the December 1996 issue of the Journal of Complexity Both of these publications were available and distributed at the meeting Even in this aspect we hope to have achieved a synthesis of the mathematics and computer science cultures as well as of the disciplines The reaction to the Park City meeting on Mathematics of Numerical Analysis Real Number Algorithms which was chaired by Steve Smale and had around 275 participants was very enthusiastic At the suggestion of Narendra Karmarkar a lunch time meeting of Felipe Cucker Arieh Iserles Narendra Karmarkar Jim Renegar Mike Shub and Steve Smale decided to try to hold a periodic meeting entitled Foundations of Computational Mathematics and to form an organization with the same name whose primary purpose will be to hold the meeting This is then the first edition of FoCM as such It has been organized around a small collection of workshops namely Systems of algebraic equations and computational algebraic geometry Homotopy methods and real machines Information based complexity Numerical linear algebra Approximation and PDEs Optimization Differential equations and dynamical systems Relations to computer science Vision and related computational tools There were also twelve plenary speakers

Polynomial Algorithms in Computer Algebra Franz Winkler, 2012-12-06 For several years now I have been teaching courses in computer algebra at the Universitat Linz the University of Delaware and the Universidad de Alcalá de Henares In the summers of 1990 and 1992 I have organized and taught summer schools in computer algebra at the Universitat Linz Gradually a set of course notes has emerged from these activities People have asked me for copies of the course notes and different versions of them have been circulating for a few years Finally I decided that I should really take the time to write the material up in a coherent way and make a book out of it Here now is the result of this work Over the years many students have been helpful in improving the quality of the notes and also several colleagues at Linz and elsewhere have contributed to it I want to thank them all for their effort in particular I want to thank B Buchberger who taught me the theory of Gröbner bases nearly two decades ago B F Caviness and B D Saunders who first stimulated my interest in various problems in computer algebra G E Collins who showed me how to compute in algebraic domains and J R Sendra with whom I started to apply computer algebra methods to problems in algebraic geometry Several colleagues have suggested improvements in earlier versions of this book However I want to make it clear that I am responsible for all remaining mistakes

Computer Algebra in Scientific Computing François Boulrier, Matthew England, Timur M.

Sadykov, Evgenii V. Vorozhtsov, 2020-10-17 This book constitutes the refereed proceedings of the 22nd International Workshop on Computer Algebra in Scientific Computing CASC 2020 held in Linz Austria in September 2020 The conference was held virtually due to the COVID 19 pandemic The 34 full papers presented together with 2 invited talks were carefully reviewed and selected from 41 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CAS in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics *Prolegomena to a Middlebrow Arithmetic of Curves of Genus 2* J. W. S. Cassels, E. V. Flynn, 1996-04-18 A unique insight into the topic of curves of genus 2 by two of the world's leading practitioners *Arithmetic of Blowup Algebras* Wolmer V. Vasconcelos, 1994-02-25 This book provides an introduction to recent developments in the theory of blow up algebras Rees algebras associated graded rings Hilbert functions and birational morphisms The emphasis is on deriving properties of rings from their specifications in terms of generators and relations While this limits the generality of many results it opens the way for the application of computational methods A highlight of the book is the chapter on advanced computational methods in algebra using Gröbner basis theory and advanced commutative algebra The author presents the Gröbner basis algorithm and shows how it can be used to resolve computational questions in algebra This volume is intended for advanced students in commutative algebra algebraic geometry and computational algebra and homological algebra It can be used as a reference for the theory of Rees algebras and related topics **Algorithmic Aspects in Information and Management** Ding-Zhu Du, Lian Li, Xiaoming Sun, Jialin Zhang, 2019-08-01 This volume constitutes the proceedings of the 13th International Conference on Algorithmic Aspects in Information and Management AAIM 2019 held in Beijing China in August 2019 The 31 full papers presented were carefully reviewed and selected The papers deal with most aspects of theoretical computer science and their applications Special considerations are given to algorithmic research that is motivated by real world applications **Proceedings of the Fifth Annual ACM-SIAM Symposium on Discrete Algorithms**, 1994-01-01 The January 1994 Symposium was jointly sponsored by the ACM Special Interest Group for Automata and Computability Theory and the SIAM Activity Group on Discrete Mathematics Among the topics in 79 refereed papers comparing point sets under projection on line search in a simple polygon low degree tests maximal empty ellipsoids roots of a polynomial and its derivatives dynamic algebraic algorithms fast comparison of evolutionary trees an efficient algorithm for dynamic text editing and tight bounds for dynamic storage allocation No index Annotation copyright by Book News Inc Portland OR **Algebraic Curves Over a Finite Field** J. W. P. Hirschfeld, Gabor Korchmaros, F. Torres, Fernando Torres, 2008-03-23 This title provides a self contained introduction to the theory of algebraic curves over a finite field whose origins can be traced back to the works of Gauss and Galois on algebraic equations in two variables with coefficients modulo a prime number **Computer Algebra in Scientific Computing**

Viktor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 Proceedings of the Third Workshop on Computer Algebra in Scientific Computing Samarkand October 5-9 2000 **Handbook of Geometry and Topology of Singularities I** José Luis Cisneros Molina, Dũng Tráng Lê, José Seade, 2020-10-24 This volume consists of ten articles which provide an in depth and reader friendly survey of some of the foundational aspects of singularity theory Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject This is the first volume in a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook *Elimination Methods* D. Wang, 2012-12-06 The development of polynomial elimination techniques from classical theory to modern algorithms has undergone a tortuous and rugged path This can be observed L van der Waerden's elimination of the elimination theory chapter from his classic *Modern Algebra* in later editions A Weil's hope to eliminate from algebraic geometry the last traces of elimination theory and S Abhyankar's suggestion to eliminate the eliminators of elimination theory The renaissance and recognition of polynomial elimination owe much to the advent and advance of modern computing technology based on which effective algorithms are implemented and applied to diverse problems in science and engineering In the last decade both theorists and practitioners have more and more realized the significance and power of elimination methods and their underlying theories Active and extensive research has contributed a great deal of new developments on algorithms and software tools to the subject that have been widely acknowledged Their applications have taken place from pure and applied mathematics to geometric modeling and robotics and to artificial neural networks This book provides a systematic and uniform treatment of elimination algorithms that compute various zero decompositions for systems of multivariate polynomials The central concepts are triangular sets and systems of different kinds in terms of which the decompositions are represented The prerequisites for the concepts and algorithms are results from basic algebra and some knowledge of algorithmic mathematics Algorithmic Algebra Bhubaneswar Mishra, 2012-12-06 Algorithmic Algebra studies some of the main algorithmic tools of computer algebra covering such topics as Gröbner bases characteristic sets resultants and semialgebraic sets The main purpose of the book is to acquaint advanced undergraduate and graduate students in computer science engineering and mathematics with the algorithmic ideas in computer algebra so that they could do research in computational algebra or understand the algorithms underlying many popular symbolic computational systems Mathematica Maple or Axiom for instance Also researchers in robotics solid modeling computational geometry and automated theorem proving community may find it useful

as symbolic algebraic techniques have begun to play an important role in these areas The book while being self contained is written at an advanced level and deals with the subject at an appropriate depth The book is accessible to computer science students with no previous algebraic training Some mathematical readers on the other hand may find it interesting to see how algorithmic constructions have been used to provide fresh proofs for some classical theorems The book also contains a large number of exercises with solutions to selected exercises thus making it ideal as a textbook or for self study

Geometric Computation Falai Chen,Dongming Wang,2004 This book contains tutorial surveys and original research contributions in geometric computing modeling and reasoning Highlighting the role of algebraic computation it covers surface blending implicitization and parametrization automated deduction with Clifford algebra and in real geometry and exact geometric computation Basic techniques advanced methods and new findings are presented coherently with many examples and illustrations Using this book the reader will easily cross the frontiers of symbolic computation computer aided geometric design and automated reasoning The book is also a valuable reference for people working in other relevant areas such as scientific computing computer graphics and artificial intelligence Contents Algebraic Methods in Computer Aided Geometric Design Theoretical and Practical Applications L Gonzlez Vega et al Constructing Piecewise Algebraic Blending Surfaces Y Feng et al Rational Curves and Surfaces Algorithms and Some Applications J R Sendra Panorama of Methods for Exact Implicitization of Algebraic Curves and Surfaces I S Kotsireas Implicitization and Offsetting via Regular Systems D Wang Determining the Intersection Curve of Two 3D Implicit Surfaces by Using Differential Geometry and Algebraic Techniques L Gonzlez Vega et al Analytical Properties of Semi Stationary Subdivision Schemes H Zhang Meshless Method for Numerical Solution of PDE Using Hermitian Interpolation with Radial Basis Z Wu Clifford Algebras in Geometric Computation H Li Automated Deduction in Real Geometry L Yang Automated Derivation of Unknown Relations and Determination of Geometric Loci Y Li On Guaranteed Accuracy Computation C K Yap Dixon A Resultant Quotients for 6 Point Isosceles Triangular Corner Cutting M C Foo Face Recognition Using Hidden Markov Models and Artificial Neural Network Techniques Z Ou B Xue

Readership Upper level undergraduates graduate students researchers and engineers in geometric modeling

Arithmetic, Geometry, Cryptography and Coding Theory 2009 David R. Kohel,Robert Rolland,2010 This volume contains the proceedings of the 12th conference on Arithmetic Geometry Cryptography and Coding Theory held in Marseille France from March 30 to April 3 2009 as well as the first Geocrypt conference held in Pointe a Pitre Guadeloupe from April 27 to May 1 2009 and the European Science Foundation exploratory workshop on Curves Coding Theory and Cryptography held in Marseille France from March 25 to 29 2009 The articles contained in this volume come from three related symposia organized by the group Arithmetique et Theorie de l Information in Marseille The topics cover arithmetic properties of curves and higher dimensional varieties with applications to codes and cryptography

LUCAS Associative Array Processor Christer Fernstrom,Ivan Kruzela,Bertil Svensson,1986-03 After historical introduction the aspiration technique and imaging

modalities are described Thereafter the use of aspiration cytology in the diagnosis and mainly in the staging of urologic cancers is on still not well known applications of the procedure in the staging of some organs bladder adrenals penis testis and secondary ureteral strictures are reported Handbook of Automated Reasoning Alan J.A. Robinson, Andrei Voronkov, 2001-06-21 Handbook of Automated Reasoning

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