Algorithmic and Quantitative Real Algebraic Geometry

Edited by: **Saugata Basu**, *Georgia Institute of Technology, Atlanta, GA*, and **Laureano Gonzalez-Vega**, *University of Cantabria, Santander, Spain*

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Algorithmic and quantitative aspects in real algebraic geometry are becoming increasingly important areas of research because of their roles in other areas of mathematics and computer science. The papers in this volume collectively span several different areas of current research.

The articles are based on talks given at the DIMACS Workshop on "Algorithmic and Quantitative Aspects of Real Algebraic Geometry". Topics include deciding basic algebraic properties of real semi-algebraic sets, application of quantitative results in real algebraic geometry towards investigating the computational complexity of various problems, algorithmic and quantitative questions in real enumerative geometry, new approaches towards solving decision problems in semi-algebraic geometry, as well as computing algebraic certificates, and applications of real algebraic geometry to concrete problems arising in robotics and computer graphics. The book is intended for researchers interested in computational methods in algebra.

Co-published with the Center for Discrete Mathematics and Theoretical Computer Science beginning with Volume 8. Volumes 1–7 were co-published with the Association for Computer Machinery (ACM).

❧ Readership

Graduate students and research mathematicians interested in algebra and algebraic geometry and their applications.

❧ Table of Contents

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Victoria Powers

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   Algorithmic and Quantitative Real Algebraic Geometry Saugata Basu,2003 Algorithmic and quantitative aspects in real algebraic geometry are becoming increasingly important areas of research because of their roles in other areas of mathematics and computer science The papers in this volume collectively span several different areas of current research The articles are based on talks given at the DIMACS Workshop on Algorithmic and Quantitative Aspects of Real Algebraic Geometry Topics include deciding basic algebraic properties of real semi algebraic sets application of quantitative results in real algebraic geometry towards investigating the computational complexity of various problems algorithmic and quantitative questions in real enumerative geometry new approaches towards solving decision problems in semi algebraic geometry as well as computing algebraic certificates and applications of real algebraic geometry to concrete problems arising in robotics and computer graphics The book is intended for researchers interested in computational methods in algebra   **Algorithms in Real Algebraic Geometry** Saugata Basu,Richard Pollack,Marie-Françoise Coste-Roy,2013-03-09 The algorithmic problems of real algebraic geometry such as real root counting deciding the existence of solutions of systems of polynomial equations and inequalities or deciding whether two points belong in the same connected component of a semi algebraic set occur in many contexts In this first ever graduate textbook on the algorithmic aspects of real algebraic geometry the main ideas and techniques presented form a coherent and rich body of knowledge linked to many areas of mathematics and computing Mathematicians already aware of real algebraic geometry will find relevant information about the algorithmic aspects and researchers in computer science and engineering will find the required mathematical background Being self contained the book is accessible to graduate students and even for invaluable parts of it to undergraduate students

   Algorithms in Real Algebraic Geometry Saugata Basu,Richard Pollack,Marie-Françoise Roy,2009-09-02 This is the first graduate textbook on the algorithmic aspects of real algebraic geometry The main ideas and techniques presented form a coherent and rich body of knowledge Mathematicians will find relevant information about the algorithmic aspects Researchers in computer science and engineering will find the required mathematical background Being self contained the book is accessible to graduate students and even for invaluable parts of it to undergraduate students This second edition contains several recent results on discriminants of symmetric matrices and other relevant topics   **Ordered Algebraic Structures and Related Topics** Fabrizio Broglia,2017 Contains the proceedings of the international conference Ordered Algebraic Structures and Related Topics held in October 2015 at CIRM Luminy Marseilles Papers cover topics in real analytic geometry real algebra and real algebraic geometry including complexity issues model theory of various algebraic and differential structures Witt equivalence of fields and the moment problem   **Algorithms and Computation** Toshihide Ibaraki,Naoki Katoh,Hirotaka Ono,2003-12-03 This book constitutes the refereed proceedings of the 14th International Symposium on Algorithms and Computation ISAAC 2003 held in Kyoto Japan in December 2003 The 73 revised full papers

presented were carefully reviewed and selected from 207 submissions The papers are organized in topical sections on computational geometry graph and combinatorial algorithms computational complexity quantum computing combinatorial optimization scheduling computational biology distributed and parallel algorithms data structures combinatorial and network optimization computational complexity and cryptography game theory and randomized algorithms and algebraic and arithmetic computation **Gems in Experimental Mathematics** Tewodros Amdeberhan,Luis A. Medina,Victor H. Moll,2010 These proceedings reflect the special session on Experimental Mathematics held January 5 2009 at the Joint Mathematics Meetings in Washington DC as well as some papers specially solicited for this volume Experimental Mathematics is a recently structured field of Mathematics that uses the computer and advanced computing technology as a tool to perform experiments These include the analysis of examples testing of new ideas and the search of patterns to suggest results and to complement existing analytical rigor The development of a broad spectrum of mathematical software products such as MathematicaR and MapleTM has allowed mathematicians of diverse backgrounds and interests to use the computer as an essential tool as part of their daily work environment This volume reflects a wide range of topics related to the young field of Experimental Mathematics The use of computation varies from aiming to exclude human input in the solution of a problem to traditional mathematical questions for which computation is a prominent tool *Certificates of Positivity for Real Polynomials* Victoria Powers,2021-11-26 This book collects and explains the many theorems concerning the existence of certificates of positivity for polynomials that are positive globally or on semialgebraic sets A certificate of positivity for a real polynomial is an algebraic identity that gives an immediate proof of a positivity condition for the polynomial Certificates of positivity have their roots in fundamental work of David Hilbert from the late 19th century on positive polynomials and sums of squares Because of the numerous applications of certificates of positivity in mathematics applied mathematics engineering and other fields it is desirable to have methods for finding describing and characterizing them For many of the topics covered in this book appropriate algorithms computational methods and applications are discussed This volume contains a comprehensive accessible up to date treatment of certificates of positivity written by an expert in the field It provides an overview of both the theory and computational aspects of the subject and includes many of the recent and exciting developments in the area Background information is given so that beginning graduate students and researchers who are not specialists can learn about this fascinating subject Furthermore researchers who work on certificates of positivity or use them in applications will find this a useful reference for their work **Solving Polynomial Equations** Alicia Dickenstein,2005-04-27 This book provides a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems It presents the state of the art in several symbolic numeric and symbolic numeric techniques including effective and algorithmic methods in algebraic geometry and computational algebra complexity issues and applications ranging from statistics and geometric modelling to robotics and

vision Graduate students as well as researchers in related areas will find an excellent introduction to currently interesting topics These cover Groebner and border bases multivariate resultants residues primary decomposition multivariate polynomial factorization homotopy continuation complexity issues and their applications   Computer Science Logic Luke Ong,2005-09-07 The Annual Conference of the European Association for Computer Science Logic EACSL CSL 2005 was held at the University of Oxford on 22 25 August 2005   **Mathematical Reviews** ,2004   Arc Spaces and Additive Invariants in Real Algebraic and Analytic Geometry Michel Coste,2007 In this volume the authors present some new trends in real algebraic geometry based on the study of arc spaces and additive invariants of real algebraic sets Generally real algebraic geometry uses methods of its own that usually differ sharply from the more widely known methods of complex algebraic geometry This feature is particularly apparent when studying the basic topological and geometric properties of real algebraic sets the rich algebraic structures are usually hidden and cannot be recovered from the topology The use of arc spaces and additive invariants partially obviates this disadvantage Moreover these methods are often parallel to the basic approaches of complex algebraic geometry The authors presentation contains the construction of local topological invariants of real algebraic sets by means of algebraically constructible functions This technique is extended to the wider family of arc symmetric semialgebraic sets Moreover the latter family defines a natural topology that fills a gap between the Zariski topology and the euclidean topology In real equisingularity theory Kuo s blow analytic equivalence of real analytic function germs provides an equivalence relation that corresponds to topological equivalence in the complex analytic set up Among other applications arc symmetric geometry via the motivic integration approach gives new invariants of this equivalence allowing some initial classification results The volume contains two courses and two survey articles that are designed for a wide audience in particular students and young researchers   *Algorithms in Real Algebraic Geometry* Saugata Basu,Richard Pollack,Marie-Françoise Roy,2003 The algorithmic problems of real algebraic geometry such as real root counting deciding the existence of solutions of systems of polynomial equations and inequalities or deciding whether two points belong in the same connected component of a semi algebraic set occur in many contexts In this first ever graduate textbook on the algorithmic aspects of real algebraic geometry the main ideas and techniques presented form a coherent and rich body of knowledge linked to many areas of mathematics and computing Mathematicians already aware of real algebraic geometry will find relevant information about the algorithmic aspects and researchers in computer science and engineering will find the required mathematical background Being self contained the book is accessible to graduate students and even for invaluable parts of it to undergraduate students   Discrete and Computational Geometry Boris Aronov,Saugata Basu,Janos Pach,Micha Sharir,2003-06-23 An impressive collection of original research papers in discrete and computational geometry contributed by many leading researchers in these fields as a tribute to Jacob E Goodman and Richard Pollack two of the founding fathers of the area on the occasion of their 2 3 x 100 birthdays The topics covered by the 41 papers provide

professionals and graduate students with a comprehensive presentation of the state of the art in most aspects of discrete and computational geometry including geometric algorithms study of arrangements geometric graph theory quantitative and algorithmic real algebraic geometry with important connections to algebraic geometry convexity polyhedral combinatorics the theory of packing covering and tiling The book serves as an invaluable source of reference in this discipline *SIAM Journal on Computing* Society for Industrial and Applied Mathematics,2003 Nonlinearity ,2006 *Complexity of Computations and Proofs* Jan Krajíček,2003 **Distribution Theory of Algebraic Numbers** Pei-Chu Hu,Chung-Chun Yang,2008 The book timely surveys new research results and related developments in Diophantine approximation a division of number theory which deals with the approximation of real numbers by rational numbers The book is appended with a list of challenging open problems and a comprehensive list of references From the contents Field extensions Algebraic numbers Algebraic geometry Height functions The abc conjecture Roth s theorem Subspace theorems Vojta s conjectures L functions Normal Forms, Bifurcations and Finiteness Problems in Differential Equations Christiane Rousseau,Gert Sabidussi,2004-02-29 Proceedings of the Nato Advanced Study Institute held in Montreal Canada from 8 to 19 July 2002 **Algorithms in Real Algebraic Geometry** Dennis S. Arnon,1988-01 *Tropical Geometry* David E. Speyer,2005

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