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# Real Algebraic Geometry



Springer

# Algorithmic And Quantitative Real Algebraic Geometry

**Saugata Basu, Laureano González-Vega**



## **Algorithmic And Quantitative Real Algebraic Geometry:**

*Algorithmic and Quantitative Real Algebraic Geometry* Saugata Basu, Laureano González-Vega, 2003-01-01 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 Roy, 2003 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

**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

Solving Polynomial Equations Alicia Dickenstein, Ioannis Z. Emiris, 2005-12-29 The subject of this book is the solution of polynomial equations that is systems of generally non linear algebraic equations This study is at the heart of several areas of mathematics and its applications It has provided the motivation for advances in different branches of mathematics such as algebra geometry topology and numerical analysis In recent years an explosive development of algorithms and software has made it possible to solve many problems which had been intractable up to then and greatly expanded the areas of applications to include robotics machine vision signal processing structural molecular biology computer aided design and geometric modelling as well as certain areas of statistics optimization and game theory and biological networks At the same time symbolic computation has proved to be an invaluable tool for experimentation and conjecture in pure mathematics As a consequence the interest in effective algebraic geometry and computer

algebra has extended well beyond its original constituency of pure and applied mathematicians and computer scientists to encompass many other scientists and engineers. While the core of the subject remains algebraic geometry, it also calls upon many other aspects of mathematics and theoretical computer science ranging from numerical methods, differential equations and number theory to discrete geometry, combinatorics and complexity theory.

The goal of this book is to provide a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems. 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.

**Notions of Positivity and the Geometry of Polynomials** Petter Brändén, Mikael Passare, Mihai Putinar, 2011-09-01. The book consists of solicited articles from a select group of mathematicians and physicists working at the interface between positivity and the geometry, combinatorics or analysis of polynomials of one or several variables. It is dedicated to the memory of Julius Borcea 1968-2009, a distinguished mathematician, Professor at the University of Stockholm. With his extremely original contributions and broad vision, his impact on the topics of the planned volume cannot be underestimated. All contributors knew or have exchanged ideas with Dr Borcea and their articles reflect at least partially his heritage.

**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. Handbook of Discrete and Computational Geometry Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22. The Handbook of Discrete and Computational Geometry is intended as a reference book, fully accessible to nonspecialists as well as specialists, covering all major aspects of both fields. The book offers the most important results and methods in discrete and computational geometry to those who use them in their work, both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research, molecular biology and robotics. Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years. This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry. This synthesis between discrete and computational geometry lies at the heart of this Handbook. A growing list of application fields includes combinatorial optimization, computer aided design, computer graphics, crystallography, data analysis, error correcting codes, geographic information systems, motion planning, operations research, pattern recognition, robotics, solid modeling and

tomography      *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      **Tropical Geometry and Integrable Systems** Chris Athorne, Diane Maclagan, Ian Strachan, 2012 This volume contains the proceedings of the conference on tropical geometry and integrable systems held July 3 8 2011 at the University of Glasgow United Kingdom One of the aims of this conference was to bring together researchers in the field of tropical geometry and its applications from apparently disparate ends of the spectrum to foster a mutual understanding and establish a common language which will encourage further developments of the area This aim is reflected in these articles which cover areas from automata through cluster algebras to enumerative geometry In addition two survey articles are included which introduce ideas from researchers on one end of this spectrum to researchers on the other This book is intended for graduate students and researchers interested in tropical geometry and integrable systems and the developing links between these two areas

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