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Editors

# Algebra, Geometry, and Software Systems



Springer

# Algebra Geometry And Software Systems

**James H. Davenport, Manuel  
Kauers, George Labahn, Josef Urban**



## **Algebra Geometry And Software Systems:**

*Algebra, Geometry and Software Systems* Michael Joswig, Nobuki Takayama, 2013-03-14 In many fields of modern mathematics specialised scientific software becomes increasingly important Hence tremendous effort is taken by numerous groups all over the world to develop appropriate solutions This book contains surveys and research papers on mathematical software and algorithms The common thread is that the field of mathematical applications lies on the border between algebra and geometry Topics include polyhedral geometry elimination theory algebraic surfaces Gr bner bases triangulations of point sets and the mutual relationship This diversity is accompanied by the abundance of available software systems which often handle only special mathematical aspects Therefore the volume s other focus is on solutions towards the integration of mathematical software systems This includes low level and XML based high level communication channels as well as general framework for modular systems

**Software for Algebraic Geometry** Michael E. Stillman, Nobuki Takayama, Jan Verschelde, 2008-05-29 Algorithms in algebraic geometry go hand in hand with software packages that implement them Together they have established the modern field of computational algebraic geometry which has come to play a major role in both theoretical advances and applications Over the past fifteen years several excellent general purpose packages for computations in algebraic geometry have been developed such as CoCoA Singular and Macaulay 2 While these packages evolve continuously incorporating new mathematical advances they both motivate and demand the creation of new mathematics and smarter algorithms This volume reflects the workshop Software for Algebraic Geometry held in the week from 23 to 27 October 2006 as the second workshop in the thematic year on Applications of Algebraic Geometry at the IMA The papers in this volume describe the software packages Bertini PHClab Gfan DEMiCs SYNAPS TrIm Gambit ApaTools and the application of Risa Asir to a conjecture on multiple zeta values They offer the reader a broad view of current trends in computational algebraic geometry through software development and applications

**Computer Algebra in Scientific Computing** Vladimir P. Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2016-09-08 This book constitutes the proceedings of the 18th International Workshop on Computer Algebra in Scientific Computing CASC 2016 held in Bucharest Romania in September 2016 The 32 papers presented in this volume were carefully reviewed and selected from 39 submissions They deal with cutting edge research in all major disciplines of Computer Algebra

**Topics in Algebraic Geometry and Geometric Modeling** Ron Goldman, Rimvydas Krasauskas, 2003 Algebraic geometry and geometric modeling both deal with curves and surfaces generated by polynomial equations Algebraic geometry investigates the theoretical properties of polynomial curves and surfaces geometric modeling uses polynomial piecewise polynomial and rational curves and surfaces to build computer models of mechanical components and assemblies for industrial design and manufacture The NSF sponsored the four day Vilnius Workshop on Algebraic Geometry and Geometric Modeling which brought together some of the top experts in the two research communities to examine a wide range of topics of interest to both fields This volume is

an outgrowth of that workshop Included are surveys tutorials and research papers In addition the editors have included a translation of Minding's 1841 paper On the determination of the degree of an equations obtained by elimination which foreshadows the modern application of mixed volumes in algebraic geometry The volume is suitable for mathematicians computer scientists and engineers interested in applications of algebraic geometry to geometric modeling

**Algebraic and Geometric Methods in Statistics** Paolo Gibilisco, 2010 This up to date account of algebraic statistics and information geometry explores the emerging connections between the two disciplines demonstrating how they can be used in design of experiments and how they benefit our understanding of statistical models in particular exponential models This book presents a new way of approaching classical statistical problems and raises scientific questions that would never have been considered without the interaction of these two disciplines Beginning with a brief introduction to each area using simple illustrative examples the book then proceeds with a collection of reviews and some new results written by leading researchers in their respective fields Part III dwells in both classical and quantum information geometry containing surveys of key results and new material Finally Part IV provides examples of the interplay between algebraic statistics and information geometry Computer code and proofs are also available online where key examples are developed in further detail

Mathematical Software – ICMS 2020 Anna Maria Bigatti, Jacques Carette, James H. Davenport, Michael Joswig, Timo de Wolff, 2020-07-07 This book constitutes the proceedings of the 7th International Conference on Mathematical Software ICMS 2020 held in Braunschweig Germany in July 2020 The 48 papers included in this volume were carefully reviewed and selected from 58 submissions The program of the 2020 meeting consisted of 20 topical sessions each of which providing an overview of the challenges achievements and progress in a environment of mathematical software research development and use

*Handbook of Statistical Systems Biology* Michael Stumpf, David J. Balding, Mark Girolami, 2011-09-09 Systems Biology is now entering a mature phase in which the key issues are characterising uncertainty and stochastic effects in mathematical models of biological systems The area is moving towards a full statistical analysis and probabilistic reasoning over the inferences that can be made from mathematical models This handbook presents a comprehensive guide to the discipline for practitioners and educators in providing a full and detailed treatment of these important and emerging subjects Leading experts in systems biology and statistics have come together to provide insight in to the major ideas in the field and in particular methods of specifying and fitting models and estimating the unknown parameters This book Provides a comprehensive account of inference techniques in systems biology Introduces classical and Bayesian statistical methods for complex systems Explores networks and graphical modeling as well as a wide range of statistical models for dynamical systems Discusses various applications for statistical systems biology such as gene regulation and signal transduction Features statistical data analysis on numerous technologies including metabolic and transcriptomic technologies Presents an in depth presentation of reverse engineering approaches Provides colour illustrations to explain key concepts This handbook

will be a key resource for researchers practising systems biology and those requiring a comprehensive overview of this important field

**Mathematical Software - Proceedings Of The First International Congress Of Mathematical Software** Arjeh M Cohen,Xiaoshan Gao,Nobuki Takayama,2002-07-26 The advent of mathematical software has been one of the most important events in mathematics Mathematical software systems are used to construct examples to prove theorems and to find new mathematical phenomena On the other hand mathematical research often motivates developments of new algorithms and new systems This volume contains the papers presented at the First International Congress of Mathematical Software which aimed at a coherent study of mathematical software systems from a wide variety of branches of mathematics The book discusses more than one hundred mathematical software systems Readers can get an overview of the current status of the arts of mathematical software and algorithms The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDRom version ISI Proceedings

*Geometric Combinatorics* Ezra Miller,Victor Reiner,Bernd Sturmfels, *Geometric combinatorics* describes a wide area of mathematics that is primarily the study of geometric objects and their combinatorial structure This text is a compilation of expository articles at the interface between combinatorics and geometry

Arrangements, Local Systems and Singularities Fouad El Zein,Alexander I. Suciu,Meral Tosun,Muhammed Uludag,Sergey Yuzvinsky,2010-03-14 This volume comprises the Lecture Notes of the CIMPA TUBITAK Summer School Arrangements Local systems and Singularities held at Galatasaray University Istanbul during June 2007 The volume is intended for a large audience in pure mathematics including researchers and graduate students working in algebraic geometry singularity theory topology and related fields The reader will find a variety of open problems involving arrangements local systems and singularities proposed by the lecturers at the end of the school

*Interactions of Classical and Numerical Algebraic Geometry* Daniel James Bates,2009-09-16 This volume contains the proceedings of the conference on Interactions of Classical and Numerical Algebraic Geometry held May 22 24 2008 at the University of Notre Dame in honor of the achievements of Professor Andrew J Sommese While classical algebraic geometry has been studied for hundreds of years numerical algebraic geometry has only recently been developed Due in large part to the work of Andrew Sommese and his collaborators the intersection of these two fields is now ripe for rapid advancement The primary goal of both the conference and this volume is to foster the interaction between researchers interested in classical algebraic geometry and those interested in numerical methods The topics in this book include but are not limited to various new results in complex algebraic geometry a primer on Seshadri constants analyses and presentations of existing and novel numerical homotopy methods for solving polynomial systems a numerical method for computing the dimensions of the cohomology of twists of ideal sheaves and the application of algebraic methods in kinematics and phylogenetics

Mathematical Software - ICMS 2010 Komei Fukuda,Joris van der Hoeven,Michael Joswig,Nobuki Takayama,2010-08-30 The ICMS Developer s Meeting is an international congress for which the main theme is mathematical software The 2010 meeting was the third of a series of

meetings of similar theme the first being held in Beijing China in 2002 and the second in Castro Urdiales Spain in 2006 The field of mathematics has numerous branches and in each branch we find that algorithms and also implementations and applications of software systems are studied Researchers who endeavor to make such studies also have international meetings within their specific branches of mathematics and these meetings have made significant contributions to the fields in which they lie The ICMS International Congresses on Mathematical Software on the other hand is a general not branch specific meeting on mathematical software which is held every four years and is a rare opportunity for developers of mathematical software from different branches of mathematics as well as mathematicians who are interested in mathematical software to gather together

*Mathematical Software - ICMS 2006* Andres Iglesias, Nobuki Takayama, 2006-08-31 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues

**Mathematical Software - ICMS 2018** James H. Davenport, Manuel Kauers, George Labahn, Josef Urban, 2018-07-17 This book constitutes the proceedings of the 6th International Conference on Mathematical Software ICMS 2018 held in South Bend IN USA in July 2018 The 59 papers included in this volume were carefully reviewed and selected from numerous submissions The program of the 2018 meeting consisted of 20 topical sessions each of which providing an overview of the challenges achievements and progress in a subfield of mathematical software research development and use

**Numerically Solving Polynomial Systems with Bertini** Daniel J. Bates, Jonathan D. Hauenstein, Andrew J. Sommese, Charles W. Wampler, 2013-11-08 This book is a guide to concepts and practice in numerical algebraic geometry the solution of systems of polynomial equations by numerical methods Through numerous examples the authors show how to apply the well received and widely used open source Bertini software package to compute solutions including a detailed manual on syntax and usage options The authors also maintain a complementary web page where readers can find supplementary materials and Bertini input files Numerically Solving Polynomial Systems with Bertini approaches numerical algebraic geometry from a user's point of view with numerous examples of how Bertini is applicable to polynomial systems It treats the fundamental task of solving a given polynomial system and describes the latest advances in the field including algorithms for intersecting and projecting algebraic sets methods for treating singular sets the nascent field of real numerical algebraic geometry and applications to large polynomial systems arising from differential equations Those who wish to solve polynomial systems can start gently by finding isolated solutions to small systems advance rapidly to using algorithms for finding positive dimensional solution sets curves surfaces etc and learn how to use parallel computers on large problems These techniques are of interest to engineers and scientists in fields where polynomial

equations arise including robotics control theory economics physics numerical PDEs and computational chemistry

Randomization, Relaxation, and Complexity in Polynomial Equation Solving Leonid Gurvits, 2011 This volume corresponds to the Banff International Research Station Workshop on Randomization Relaxation and Complexity held from February 28 March 5 2010 It contains a sample of advanced algorithmic techniques underpinning the solution of systems of polynomial equations The papers are written by leading experts in algorithmic algebraic geometry and examine core topics Algebraic Geometry Gerrit Hayson, In the grand tapestry of mathematics few subjects weave together abstract thought and visual intuition as elegantly as algebraic geometry This field represents one of humanity's most ambitious intellectual achievements the creation of a bridge between the symbolic world of algebra and the spatial realm of geometry To understand algebraic geometry is to witness the profound unity that underlies seemingly disparate mathematical concepts The journey begins with a simple yet revolutionary idea Every polynomial equation corresponds to a geometric shape and conversely every geometric shape can be described through algebraic equations Consider the humble equation  $x^2 + y^2 = 1$  To an algebraist this represents a relationship between variables a constraint that solutions must satisfy To a geometer it describes a perfect circle centered at the origin with radius one Algebraic geometry recognizes that these are not two different mathematical objects but rather two perspectives on the same fundamental entity This duality extends far beyond simple circles The equation  $y = x^2$  defines a parabola while  $y = x^3$  describes a cubic curve with a distinctive cusp More complex polynomial equations generate increasingly intricate curves and surfaces each possessing both algebraic properties derived from the equations and geometric properties visible to the eye The genius of algebraic geometry lies in its ability to translate problems from one domain to the other using whichever approach offers the clearest path to understanding *Formal Algorithmic Elimination for PDEs* Daniel Robertz, 2014-10-13 Investigating the correspondence between systems of partial differential equations and their analytic solutions using a formal approach this monograph presents algorithms to determine the set of analytic solutions of such a system and conversely to find differential equations whose set of solutions coincides with a given parametrized set of analytic functions After giving a detailed introduction to Janet bases and Thomas decomposition the problem of finding an implicit description of certain sets of analytic functions in terms of differential equations is addressed Effective methods of varying generality are developed to solve the differential elimination problems that arise in this context In particular it is demonstrated how the symbolic solution of partial differential equations profits from the study of the implicitization problem For instance certain families of exact solutions of the Navier Stokes equations can be computed **The Numerical Solution of Systems of Polynomials Arising in Engineering and Science** Andrew John Sommese, Charles Weldon Wampler (II.), 2005 Written by the founders of the new and expanding field of numerical algebraic geometry this is the first book that uses an algebraic geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets The text covers the full theory from methods

developed for isolated solutions in the 1980 s to the most recent research on positive dimensional sets      **Geometry at the Frontier: Symmetries and Moduli Spaces of Algebraic Varieties** Paola Comparin, Eduardo Esteves, Herbert Lange, Sebastián Reyes-Carocca, Rubí E. Rodríguez, 2021-04-23 Articles in this volume are based on lectures given at three conferences on Geometry at the Frontier held at the Universidad de la Frontera Puc n Chile in 2016 2017 and 2018 The papers cover recent developments on the theory of algebraic varieties in particular of their automorphism groups and moduli spaces They will be of interest to anyone working in the area as well as young mathematicians and students interested in complex and algebraic geometry



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