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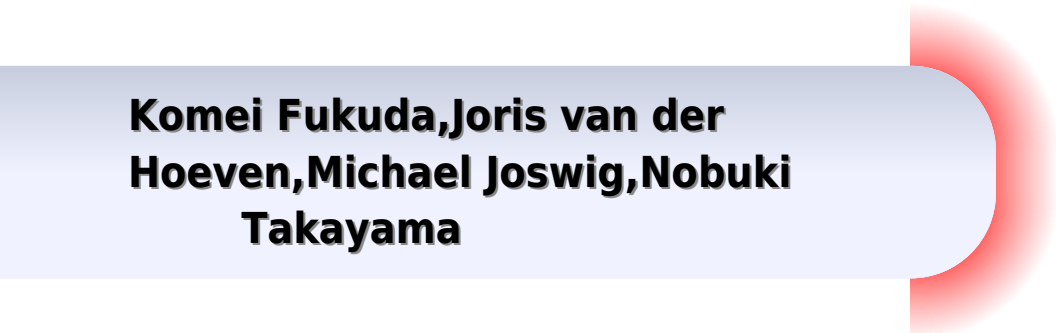
# Algebra, Geometry, and Software Systems



Springer

# Algebra Geometry And Software Systems

**Komei Fukuda, Joris van der  
Hoeven, Michael Joswig, Nobuki  
Takayama**



## **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

*Approximate Commutative Algebra* Lorenzo Robbiano, John Abbott, 2009-09-18 Approximate Commutative Algebra is an emerging field of research which endeavours to bridge the gap between traditional exact Computational Commutative Algebra and approximate numerical computation The last 50 years have seen enormous progress in the realm of exact Computational Commutative Algebra and given the importance of polynomials in scientific modelling it is very natural to want to extend these ideas to handle approximate empirical data deriving from physical measurements of phenomena in the real world In this volume nine contributions from established researchers describe various approaches to tackling a variety of problems arising in Approximate Commutative Algebra

**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

Algebraic and Combinatorial Computational Biology Raina Robeva, Matthew Macauley, 2018-10-08

Algebraic and Combinatorial Computational Biology introduces students and researchers to a panorama of powerful and current methods for mathematical problem solving in modern computational biology Presented in a modular format each topic introduces the biological foundations of the field covers specialized mathematical theory and concludes by highlighting connections with ongoing research particularly open questions The work addresses problems from gene regulation neuroscience phylogenetics molecular networks assembly and folding of biomolecular structures and the use of clustering methods in biology A number of these chapters are surveys of new topics that have not been previously compiled into one unified source These topics were selected because they highlight the use of technique from algebra and combinatorics that are becoming mainstream in the life sciences Integrates a comprehensive selection of tools from computational biology into educational or research programs Emphasizes practical problem solving through multiple exercises projects and spinoff computational simulations Contains scalable material for use in undergraduate and graduate level classes and research projects Introduces the reader to freely available professional software Supported by illustrative datasets and adaptable computer code

**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 rst being held in Beijing China in 2002 and the second in Castro Urdiales Spain in 2006 The eld of mathematics has numerous branches and in each branch we nd that algorithms and also implementations and applications of software s tems are studied Researchers who endeavor to make such studies also have international meetings within their speci c branches of mathematics and these meetings have made signi cant contributions to the elds in which they lie The ICMS International Congresses on Mathematical Software on the other hand is a general not branch speci c meeting on mathematical software which is held every four years and is a rare opportunity for developers of mathematical software from di erent branches of mathematics as well as mathematicians who are interested in mathematical software to gather together

*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

*Mathematical Software - ICMS 2006* Andres Iglesias, Nobuki Takayama, 2006-08-24 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      **A Singular Introduction to Commutative Algebra** Gert-Martin Greuel, Gerhard Pfister, 2002 CD ROM contains a version of Singular for various platforms Unix Linux Windows Macintosh including all examples and procedures explained in the book      **Polynomial Optimization, Moments, and Applications** Michal Kočvara, Bernard Mourrain, Cordian Riener, 2023-12-27 Polynomial optimization is a fascinating field of study that has revolutionized the way we approach nonlinear problems described by polynomial constraints The applications of this field range from production planning processes to transportation energy consumption and resource control This introductory book explores the latest research developments in polynomial optimization presenting the results of cutting edge interdisciplinary work conducted by the European network POEMA For the past four years experts from various fields including algebraists geometers computer scientists and industrial actors have collaborated in this network to create new methods that go beyond traditional paradigms of mathematical optimization By exploiting new advances in algebra and convex geometry these innovative approaches have resulted in significant scientific and technological advancements This book aims to make these exciting developments accessible to a wider audience by gathering high quality chapters on these hot topics Aimed at both aspiring and established researchers as well as industry professionals this book will be an invaluable resource for anyone interested in polynomial optimization and its potential for real world applications

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