

Texts & Monographs in Symbolic Computation

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Editors

Approximate Commutative Algebra

 SpringerWienNewYork

Approximate Commutative Algebra Texts Monographs In Symbolic Computation

**Takushiro Ochiai,Toshiki
Mabuchi,Yoshiaki Maeda,Junjiro
Noguchi,Alan Weinstein**

Approximate Commutative Algebra Texts Monographs In Symbolic Computation:

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 Advanced Methods for Geometric Modeling and Numerical Simulation

Carlotta Giannelli, Hendrik Speleers, 2019-09-18 This book gathers selected contributions presented at the INdAM Workshop DREAMS held in Rome Italy on January 22-26 2018 Addressing cutting edge research topics and advances in computer aided geometric design and isogeometric analysis it covers distinguishing curve surface constructions and spline models with a special focus on emerging adaptive spline constructions fundamental spline theory and related algorithms as well as various aspects of isogeometric methods e.g. efficient quadrature rules and spectral analysis for isogeometric B-spline discretizations Applications in finite element and boundary element methods are also discussed Given its scope the book will be of interest to both researchers and graduate students working in these areas **Mathematical Aspects of Computer**

and Information Sciences Johannes Blömer, Ilias S. Kotsireas, Temur Kutsia, Dimitris E. Simos, 2017-12-20 This book constitutes the refereed proceedings of the 7th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2017 held in Vienna Austria in November 2017 The 28 revised papers and 8 short papers presented were carefully reviewed and selected from 67 submissions The papers are organized in the following topical sections foundation of algorithms in mathematics engineering and scientific computation combinatorics and codes in computer science data modeling and analysis and mathematical aspects of information security and cryptography

Semidefinite Optimization and Convex Algebraic Geometry Grigoriy Blekherman, Pablo A. Parrilo, Rekha R. Thomas, 2013-03-21 An accessible introduction to convex algebraic geometry and semidefinite optimization For graduate students and researchers in mathematics and computer science Some Tapas of Computer Algebra Arjeh M. Cohen, Hans Cuypers, Hans Sterk, 2013-03-09 In the years 1994-1995 two EIDMA mini courses on Computer Algebra were given at the Eindhoven University of Technology by apart from ourselves various invited lecturers EIDMA is the Research School Euler Institute for Discrete Mathematics and its Applications The idea of the courses was to acquaint young mathematicians with algorithms and software for mathematical research and to enable them to incorporate algorithms in their research A collection of lecture notes was used at these courses When discussing these courses in comparison with other kinds of courses one might give in a week's time Joachim Neuberger referred to our courses as tapas This denomination underlined

that the courses consisted of appetizers for various parts of algorithmic algebra indeed we covered such spicy topics as the link between Gröbner bases and integer programming and the detection of algebraic solutions to differential equations As a collection the notes turned out to have some appeal of their own which is the main reason why the idea came up of transforming them into book form We felt however that the book should be distinguishable from a standard text book on computer algebra in that it retains its appetizing flavour by presenting a variety of topics at an accessible level with a view to recent developments

Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Marc

Fossorier, 2006-02-03 This book constitutes the refereed proceedings of the 16th International Symposium on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAECC 16 held in Las Vegas NV USA in February 2006 The 25 revised full papers presented together with 7 invited papers were carefully reviewed and selected from 32 submissions Among the subjects addressed are block codes algebra and codes rings fields and AG codes cryptography sequences decoding algorithms and algebra constructions in algebra Galois groups differential algebra and polynomials

Applications of Polynomial Systems David A. Cox, 2020-03-02 Systems of polynomial equations can be used to model an astonishing variety of phenomena This book explores the geometry and algebra of such systems and includes numerous applications The book begins with elimination theory from Newton to the twenty first century and then discusses the interaction between algebraic geometry and numerical computations a subject now called numerical algebraic geometry The final three chapters discuss applications to geometric modeling rigidity theory and chemical reaction networks in detail Each chapter ends with a section written by a leading expert Examples in the book include oil wells HIV infection phylogenetic models four bar mechanisms border rank font design Stewart Gough platforms rigidity of edge graphs Gaussian graphical models geometric constraint systems and enzymatic cascades The reader will encounter geometric objects such as Bézier patches Cayley Menger varieties and toric varieties and algebraic objects such as resultants Rees algebras approximation complexes matroids and toric ideals Two important subthemes that appear in multiple chapters are toric varieties and algebraic statistics The book also discusses the history of elimination theory including its near elimination in the middle of the twentieth century The main goal is to inspire the reader to learn about the topics covered in the book With this in mind the book has an extensive bibliography containing over 350 books and papers

Hilbert's Tenth Problem: Relations with Arithmetic and Algebraic

Geometry Jan Denef, 2000 This book is the result of a meeting that took place at the University of Ghent Belgium on the relations between Hilbert's tenth problem arithmetic and algebraic geometry Included are written articles detailing the lectures that were given as well as contributed papers on current topics of interest The following areas are addressed an historical overview of Hilbert's tenth problem Hilbert's tenth problem for various rings and fields model theory and local global principles including relations between model theory and algebraic groups and analytic geometry conjectures in arithmetic geometry and the structure of diophantine sets for example with Mazur's conjecture Lang's conjecture and Birch

s problem and results on the complexity of diophantine geometry highlighting the relation to the theory of computation The volume allows the reader to learn and compare different approaches arithmetical geometrical topological model theoretical and computational to the general structural analysis of the set of solutions of polynomial equations It would make a nice contribution to graduate and advanced graduate courses on logic algebraic geometry and number theory **Geometry and Analysis on Manifolds** Takushiro Ochiai,Toshiki Mabuchi,Yoshiaki Maeda,Junjiro Noguchi,Alan Weinstein,2015-02-25 This volume is dedicated to the memory of Shoshichi Kobayashi and gathers contributions from distinguished researchers working on topics close to his research areas The book is organized into three parts with the first part presenting an overview of Professor Shoshichi Kobayashi s career This is followed by two expository course lectures the second part on recent topics in extremal K hler metrics and value distribution theory which will be helpful for graduate students in mathematics interested in new topics in complex geometry and complex analysis Lastly the third part of the volume collects authoritative research papers on differential geometry and complex analysis Professor Shoshichi Kobayashi was a recognized international leader in the areas of differential and complex geometry He contributed crucial ideas that are still considered fundamental in these fields The book will be of interest to researchers in the fields of differential geometry complex geometry and several complex variables geometry as well as to graduate students in mathematics Research in Shape Analysis Asli Genctav,Kathryn Leonard,Sibel Tari,Evelyne Hubert,Geraldine Morin,Noha El-Zehiry,Erin Chambers,2018-05-17 Based on the second Women in Shape WiSH workshop held in Sirince Turkey in June 2016 these proceedings offer the latest research on shape modeling and analysis and their applications The 10 peer reviewed articles in this volume cover a broad range of topics including shape representation shape complexity and characterization in solving image processing problems While the first six chapters establish understanding in the theoretical topics the remaining chapters discuss important applications such as image segmentation registration image deblurring and shape patterns in digital fabrication The authors in this volume are members of the WiSH network and their colleagues and most were involved in the research groups formed at the workshop This volume sheds light on a variety of shape analysis methods and their applications and researchers and graduate students will find it to be an invaluable resource for further research in the area

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Table of Contents Approximate Commutative Algebra Texts Monographs In Symbolic Computation

1. Understanding the eBook Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - The Rise of Digital Reading Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Advantages of eBooks Over Traditional Books
2. Identifying Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Personalized Recommendations

- Approximate Commutative Algebra Texts Monographs In Symbolic Computation User Reviews and Ratings
- Approximate Commutative Algebra Texts Monographs In Symbolic Computation and Bestseller Lists
- 5. Accessing Approximate Commutative Algebra Texts Monographs In Symbolic Computation Free and Paid eBooks
 - Approximate Commutative Algebra Texts Monographs In Symbolic Computation Public Domain eBooks
 - Approximate Commutative Algebra Texts Monographs In Symbolic Computation eBook Subscription Services
 - Approximate Commutative Algebra Texts Monographs In Symbolic Computation Budget-Friendly Options
- 6. Navigating Approximate Commutative Algebra Texts Monographs In Symbolic Computation eBook Formats
 - ePub, PDF, MOBI, and More
 - Approximate Commutative Algebra Texts Monographs In Symbolic Computation Compatibility with Devices
 - Approximate Commutative Algebra Texts Monographs In Symbolic Computation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Highlighting and Note-Taking Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Interactive Elements Approximate Commutative Algebra Texts Monographs In Symbolic Computation
- 8. Staying Engaged with Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Approximate Commutative Algebra Texts Monographs In Symbolic Computation
- 9. Balancing eBooks and Physical Books Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Approximate Commutative Algebra Texts Monographs In Symbolic Computation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Setting Reading Goals Approximate Commutative Algebra Texts Monographs In Symbolic Computation

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Fact-Checking eBook Content of Approximate Commutative Algebra Texts Monographs In Symbolic Computation
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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