

Algorithms
and Computation
in Mathematics

Volume 10

Saugata Basu
Richard Pollack
Marie-Françoise Roy

Algorithms in Real Algebraic Geometry

Second Edition



Springer

Algorithms In Real Algebraic Geometry Algorithms And Computation In Mathematics Vol 1

Vladimir P. Gerdt



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book assumes familiarity with the basics of commutative algebra and algebraic varieties as can be covered in a one semester first course Over 350 exercises of all levels of difficulty are included in the book

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

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Computer Algebra in Scientific Computing Vladimir P. Gerdt, 2009-08-28 This book constitutes the refereed proceedings of the 11th International Workshop on Computer Algebra in Scientific Computing CASC 2009 held in Kobe Japan in September 2009 The 28 revised full papers presented together with 2 invited lectures were carefully reviewed and selected from numerous submissions The topics addressed are all basic areas of scientific computing as they benefit from the application of computer algebra methods and software The papers cover computer algebra methods and algorithms application of symbolic and algebraic manipulation and CA methods and results for the numerical integration of the partial differential equations of the mathematical physics **Computer Aided Verification** Tayssir Touili, Byron Cook, Paul Jackson, 2010-07-09 This book constitutes the refereed proceedings of the 22nd International Conference on Computer Aided Verification CAV 2010 held in Edinburgh UK in July 2010 as part of the Federated Logic Conference FLoC 2010 The 34 revised full papers presented together with 17 tool papers 4 invited talks and 3 invited tutorials were carefully reviewed and selected from 101 regular paper and 44 tool paper submissions The papers are dedicated to the advancement of the theory and practice of computer assisted formal analysis methods for hardware and software systems They are organized in topical sections on software model checking model checking and automata tools counter and hybrid systems verification memory consistency verification of hardware and low level code synthesis concurrent program verification compositional reasoning and decision procedures

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