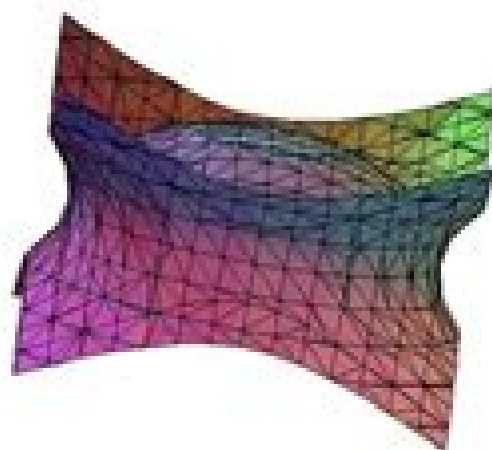


Matrix Computation in Numerical Polynomial Algebra and Algebraic Geometry

Zhonggang Zeng
Northeastern Illinois University



Linear and Numerical Linear Algebra: Theory, Method, and Applications
August 14, 2009, De Kalb, (supported in part by NSF under Grant DMS-0715137)

Numerical Polynomial Algebra

Alicia Dickenstein



Numerical Polynomial Algebra:

Numerical Polynomial Algebra Hans J. Stetter, 2004-05-01 This book is the first comprehensive treatment of numerical polynomial algebra an area which so far has received little attention

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Numerical Methods for Roots of Polynomials - Part II J.M. McNamee, V.Y. Pan, 2013-07-19

The Numerical Solution Of Systems Of Polynomials Arising In Engineering And Science Andrew J Sommese, Charles W Wampler, II, 2005-03-21 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

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

[KWIC Index for Numerical Algebra](#) Alston Scott Householder, 1972

Numerical Methods for Roots of Polynomials - Part II J.M. McNamee, V.Y. Pan, 2013-07-19 We deal here with low

degree polynomials mostly closed form solutions We describe early and modern solutions of the quadratic and potential errors in these Again we give the early history of the cubic and details of Cardan s solution and Vieta s trigonometric approach We consider the discriminant which decides what type of roots the cubic has Then we describe several ways both old and new of solving the quartic most of which involve first solving a resolvent cubic The quintic cannot in general be solved by radicals but can be solved in terms of elliptic or related functions We describe an algorithm due to Kiepert which transforms the quintic into a form having no or term then into a form where the coefficients depend on a single parameter and later another similar form This last form can be solved in terms of Weierstrass elliptic and theta functions and finally the various transformations reversed

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

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

Polynomial Algorithms in Computer Algebra Franz Winkler,2012-12-06 For several years now I have been teaching courses in computer algebra at the Universitat Linz the University of Delaware and the Universidad de Alcala de Henares In the summers of 1990 and 1992 I have organized and taught summer schools in

computer algebra at the Universitat Linz Gradually a set of course notes has emerged from these activities People have asked me for copies of the course notes and different versions of them have been circulating for a few years Finally I decided that I should really take the time to write the material up in a coherent way and make a book out of it Here now is the result of this work Over the years many students have been helpful in improving the quality of the notes and also several colleagues at Linz and elsewhere have contributed to it I want to thank them all for their effort in particular I want to thank B Buchberger who taught me the theory of Gr bner bases nearly two decades ago B F Caviness and B D Saunders who first stimulated my interest in various problems in computer algebra G E Collins who showed me how to compute in algebraic domains and J R Sendra with whom I started to apply computer algebra methods to problems in algebraic geometry Several colleagues have suggested improvements in earlier versions of this book However I want to make it clear that I am responsible for all remaining mistakes

Symbolic and Numerical Scientific Computation Franz Winkler, 2003-06-30 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Symbolic and Numerical Scientific Computation SNSC 2001 held in Hagenberg Austria in September 2001 The 19 revised full papers presented were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on symbolics and numerics of differential equations symbolics and numerics in algebra and geometry and applications in physics and engineering

Numerical and Symbolic Scientific Computing Ulrich Langer, Peter Paule, 2011-11-19 The book presents the state of the art and results and also includes articles pointing to future developments Most of the articles center around the theme of linear partial differential equations Major aspects are fast solvers in elastoplasticity symbolic analysis for boundary problems symbolic treatment of operators computer algebra and finite element methods a symbolic approach to finite difference schemes cylindrical algebraic decomposition and local Fourier analysis and white noise analysis for stochastic partial differential equations Further numerical symbolic topics range from applied and computational geometry to computer algebra methods used for total variation energy minimization

Difference Algebra Alexander Levin, 2008-04-19

Difference algebra grew out of the study of algebraic difference equations with coefficients from functional fields The first stage of this development of the theory is associated with its founder J F Ritt 1893 1951 and R Cohn whose book *Difference Algebra* 1965 remained the only fundamental monograph on the subject for many years Nowadays difference algebra has overgrown the frame of the theory of ordinary algebraic difference equations and appears as a rich theory with applications to the study of equations in finite differences functional equations differential equations with delay algebraic structures with operators group and semigroup rings The monograph is intended for graduate students and researchers in difference and differential algebra commutative algebra ring theory and algebraic geometry The book is self contained it requires no prerequisites other than the knowledge of basic algebraic concepts and a mathematical maturity of an advanced undergraduate

Solving Polynomial Systems Using Continuation for Engineering and Scientific Problems

Alexander Morgan,2009-06-04 An elementary introduction to polynomial continuation

Elimination Methods in

Polynomial Computer Algebra V. Bykov,A. Kytmanov,M. Lazman,Mikael Passare,2012-12-06 The subject of this book is connected with a new direction in mathematics which has been actively developed over the last few years namely the field of polynomial computer algebra which lies at the intersection point of algebra mathematical analysis and programming There were several incentives to write the book First of all there has lately been a considerable interest in applied nonlinear problems characterized by multiple stationary states Practical needs have then in their turn led to the appearance of new theoretical results in the analysis of systems of nonlinear algebraic equations And finally the introduction of various computer packages for analytic manipulations has made it possible to use complicated elimination theoretical algorithms in practical research The structure of the book is accordingly represented by three main parts Mathematical results driven to constructive algorithms computer algebra realizations of these algorithms and applications Nonlinear systems of algebraic equations arise in diverse fields of science In particular for processes described by systems of differential equations with a polynomial right hand side one is faced with the problem of determining the number and location of the stationary states in certain sets

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

Solving Polynomial Equations

Alicia Dickenstein,2005-04-27 This book provides a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems It presents the state of the art in several symbolic numeric and symbolic numeric techniques including effective and algorithmic methods in algebraic geometry and computational algebra complexity issues and applications ranging from statistics and geometric modelling to robotics and vision Graduate students

as well as researchers in related areas will find an excellent introduction to currently interesting topics These cover Groebner and border bases multivariate resultants residues primary decomposition multivariate polynomial factorization homotopy continuation complexity issues and their applications Algorithms in Algebraic Geometry Alicia

Dickenstein, Frank-Olaf Schreyer, Andrew J. Sommese, 2010-07-10 In the last decade there has been a burgeoning of activity in the design and implementation of algorithms for algebraic geometric computation The workshop on Algorithms in Algebraic Geometry that was held in the framework of the IMA Annual Program Year in Applications of Algebraic Geometry by the Institute for Mathematics and Its Applications on September 2006 is one tangible indication of the interest This volume of articles captures some of the spirit of the IMA workshop **Algorithmic and Experimental Methods in**

Algebra, Geometry, and Number Theory Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory **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

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