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**Symbolic Algebraic Methods  
and Verification Methods**

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# Symbolic Algebraic Methods And Verification Methods

**Götz Alefeld, Jiri Rohn, Siegfried M.  
Rump, Tetsuro Yamamoto**



## **Symbolic Algebraic Methods And Verification Methods:**

*Symbolic Algebraic Methods and Verification Methods* Götz Alefeld, Jiri Rohn, Siegfried M. Rump, Tetsuro Yamamoto, 2001-02-12 The usual implementation of real numbers as floating point numbers on existing computers has the well known disadvantage that most of the real numbers are not exactly representable in floating point Also the four basic arithmetic operations can usually not be performed exactly During the last years research in different areas has been intensified in order to overcome these problems LEDA Library by K Mehlhorn et al Exact arithmetic with real numbers by A Edalat et al Symbolic algebraic methods verification methods The latest development is the combination of symbolic algebraic methods and verification methods to so called hybrid methods This book contains a collection of worked out talks on these subjects given during a Dagstuhl seminar at the Forschungszentrum für Informatik Schloss Dagstuhl Germany presenting the state of the art [Symbolic-algebraic Methods and Verification Methods](#) Götz Alefeld, Jiri Rohn, Siegfried M. Rump, Tetsuro Yamamoto, 1999 *Numerical Verification Methods and Computer-Assisted Proofs for Partial Differential Equations* Mitsuhiro T. Nakao, Michael Plum, Yoshitaka Watanabe, 2019-11-11 In the last decades various mathematical problems have been solved by computer assisted proofs among them the Kepler conjecture the existence of chaos the existence of the Lorenz attractor the famous four color problem and more In many cases computer assisted proofs have the remarkable advantage compared with a theoretical proof of additionally providing accurate quantitative information The authors have been working more than a quarter century to establish methods for the verified computation of solutions for partial differential equations mainly for nonlinear elliptic problems of the form  $u = f(x, u, u_x)$  with Dirichlet boundary conditions Here by verified computation is meant a computer assisted numerical approach for proving the existence of a solution in a close and explicit neighborhood of an approximate solution The quantitative information provided by these techniques is also significant from the viewpoint of a posteriori error estimates for approximate solutions of the concerned partial differential equations in a mathematically rigorous sense In this monograph the authors give a detailed description of the verified computations and computer assisted proofs for partial differential equations that they developed In Part I the methods mainly studied by the authors Nakao and Watanabe are presented These methods are based on a finite dimensional projection and constructive a priori error estimates for finite element approximations of the Poisson equation In Part II the computer assisted approaches via eigenvalue bounds developed by the author Plum are explained in detail The main task of this method consists of establishing eigenvalue bounds for the linearization of the corresponding nonlinear problem at the computed approximate solution Some brief remarks on other approaches are also given in Part III Each method in Parts I and II is accompanied by appropriate numerical examples that confirm the actual usefulness of the authors methods Also in some examples practical computer algorithms are supplied so that readers can easily implement the verification programs by themselves **Using Algebraic Geometry** David A Cox, John Little, Donal O'Shea, 2005-03-17 The discovery of new

algorithms for dealing with polynomial equations and their implementation on fast inexpensive computers has revolutionized algebraic geometry and led to exciting new applications in the field This book details many uses of algebraic geometry and highlights recent applications of Grobner bases and resultants This edition contains two new sections a new chapter updated references and many minor improvements throughout *Computer Algebra in Scientific Computing* François

Boulier,Matthew England,Timur M. Sadykov,Evgenii V. Vorozhtsov,2020-10-17 This book constitutes the refereed proceedings of the 22nd International Workshop on Computer Algebra in Scientific Computing CASC 2020 held in Linz Austria in September 2020 The conference was held virtually due to the COVID 19 pandemic The 34 full papers presented together with 2 invited talks were carefully reviewed and selected from 41 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CAS in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics

**Inclusion Methods for Nonlinear Problems** Jürgen Herzberger,2012-12-06 This workshop was organized with the support of GAMM the International Association of Applied Mathematics and Mechanics on the occasion of J Herzberger s 60th birthday GAMM is thankful to him for all the time and work he spent in the preparation and holding of the meeting The talks presented during the workshop and the papers published in this volume are part of the field of Verification Numerics The important subject is fostered by GAMM already since a number of years especially also by the GAMM Fachausschuß special interest group Rechnerarithmetik und Wissenschaft liches Rechnen GiHz Alefeld Karlsruhe Dezember 2001 President of GAMM Preface At the end of the year 2000 about 23 scientists from many countries gathered in the beautiful city of Munich on the occasion of the International GAMM Workshop on Inclusion Methods for Nonlinear Problems with Applications in Engineering Economics and Physics from December 15 to 18 The purpose of this meeting was to bring together representatives of research groups from Austria Bulgaria China Croatia Germany Japan Russia Ukraine and Yugoslavia who in a wider sense work in the field of calculating numerical solutions with error bounds Most of those participants have already known each other from earlier occasions or closely cooperated in the past Representatives from three Academies of Sciences were among the speakers of this conference from the Bulgarian Academy the Russian Academy and the Ukrainian Academy of Sciences *Advanced Computational Methods for Knowledge Engineering* Tien Do,Hoai An Le Thi,Ngoc Thanh Nguyen,2014-04-11 The proceedings consists of 30 papers which have been selected and invited from the submissions to the 2nd International Conference on Computer Science Applied Mathematics and Applications ICCSAMA 2014 held on 8 9 May 2014 in Budapest Hungary The conference is organized into 7 sessions Advanced Optimization Methods and Their Applications Queueing Models and Performance Evaluation Software Development and Testing Computational Methods for Mobile and Wireless Networks Computational Methods for Knowledge Engineering Logic Based

Methods for Decision Making and Data Mining and Nonlinear Systems and Applications respectively All chapters in the book discuss theoretical and practical issues connected with computational methods and optimization methods for knowledge engineering The editors hope that this volume can be useful for graduate and Ph D students and researchers in Computer Science and Applied Mathematics It is the hope of the editors that readers of this volume can find many inspiring ideas and use them to their research Many such challenges are suggested by particular approaches and models presented in individual chapters of this book

*Algorithmic Aspects of Analysis, Prediction, and Control in Science and Engineering* Jaime Nava,Vladik Kreinovich,2014-10-18 This book demonstrates how to describe and analyze a system s behavior and extract the desired prediction and control algorithms from this analysis A typical prediction is based on observing similar situations in the past knowing the outcomes of these past situations and expecting that the future outcome of the current situation will be similar to these past observed outcomes In mathematical terms similarity corresponds to symmetry and similarity of outcomes to invariance This book shows how symmetries can be used in all classes of algorithmic problems of sciences and engineering from analysis to prediction to control Applications cover chemistry geosciences intelligent control neural networks quantum physics and thermal physics Specifically it is shown how the approach based on symmetry and similarity can be used in the analysis of real life systems in the algorithms of prediction and in the algorithms of control

**Numerical Data Fitting in Dynamical Systems** Klaus Schittkowski,2013-06-05 Real life phenomena in engineering natural or medical sciences are often described by a mathematical model with the goal to analyze numerically the behaviour of the system Advantages of mathematical models are their cheap availability the possibility of studying extreme situations that cannot be handled by experiments or of simulating real systems during the design phase before constructing a first prototype Moreover they serve to verify decisions to avoid expensive and time consuming experimental tests to analyze understand and explain the behaviour of systems or to optimize design and production As soon as a mathematical model contains differential dependencies from an additional parameter typically the time we call it a dynamical model There are two key questions always arising in a practical environment 1 Is the mathematical model correct 2 How can I quantify model parameters that cannot be measured directly In principle both questions are easily answered as soon as some experimental data are available The idea is to compare measured data with predicted model function values and to minimize the differences over the whole parameter space We have to reject a model if we are unable to find a reasonably accurate fit To summarize parameter estimation or data fitting respectively is extremely important in all practical situations where a mathematical model and corresponding experimental data are available to describe the behaviour of a dynamical system

**Applied Parallel and Scientific Computing** Kristján Jónasson,2012-02-04 The two volume set LNCS 7133 and LNCS 7134 constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Applied Parallel and Scientific Computing PARA 2010 held in Reykjav k Iceland in June 2010 These volumes contain three keynote lectures 29 revised

papers and 45 minisymposia presentations arranged on the following topics cloud computing HPC algorithms HPC programming tools HPC in meteorology parallel numerical algorithms parallel computing in physics scientific computing tools HPC software engineering simulations of atomic scale systems tools and environments for accelerator based computational biomedicine GPU computing high performance computing interval methods real time access and processing of large data sets linear algebra algorithms and software for multicore and hybrid architectures in honor of Fred Gustavson on his 75th birthday memory and multicore issues in scientific computing theory and praxis multicore algorithms and implementations for application problems fast PDE solvers and a posteriori error estimates and scalable tools for high performance computing     Modelling, Computation and Optimization in Information Systems and Management Sciences Hoai An Le Thi,Tao Pham Dinh,Ngoc Thanh Nguyen,2015-05-04 This proceedings set contains 85 selected full papers presented at the 3rd International Conference on Modelling Computation and Optimization in Information Systems and Management Sciences MCO 2015 held on May 11 13 2015 at Lorraine University France The present part I of the 2 volume set includes articles devoted to Combinatorial optimization and applications DC programming and DCA thirty years of Developments Dynamic Optimization Modelling and Optimization in financial engineering Multiobjective programming Numerical Optimization Spline Approximation and Optimization as well as Variational Principles and Applications

*Computer Vision - ECCV 2006* Aleš Leonardis,Aleš Leonardis, Axel Pinz, Horst Bischof,Axel Pinz,2006     **Reliable Implementation of Real Number Algorithms: Theory and Practice** Peter Hertling,Christoph M. Hoffmann,Wolfram Luther,Nathalie Revol,2008-08-28 This book constitutes the revised papers of the International Seminar on Reliable Implementation of Real Number Algorithms held at Dagstuhl Castle Germany in January 2006 The Seminar was intended to stimulate an exchange of ideas between the different communities that deal with the problem of reliable implementation of real number algorithms Topics included formal proofs software libraries systems and platforms as well as computational geometry and solid modelling     *Computer Arithmetic and Validity* Ulrich Kulisch,2013-04-30 This is the revised and extended second edition of the successful basic book on computer arithmetic It is consistent with the newest recent standard developments in the field The book shows how the arithmetic and mathematical capability of the digital computer can be enhanced in a quite natural way The work is motivated by the desire and the need to improve the accuracy of numerical computing and to control the quality of the computed results validity The accuracy requirements for the elementary floating point operations are extended to the customary product spaces of computations including interval spaces The mathematical properties of these models are extracted into an axiomatic approach which leads to a general theory of computer arithmetic Detailed methods and circuits for the implementation of this advanced computer arithmetic on digital computers are developed in part two of the book Part three then illustrates by a number of sample applications how this extended computer arithmetic can be used to compute highly accurate and mathematically verified results The book can be used as a high level

undergraduate textbook but also as reference work for research in computer arithmetic and applied mathematics

**Computer Aided Systems Theory - EUROCAST 2003** Roberto Moreno Diaz, 2003-10-13 This book constitutes the thoroughly refereed post proceedings of the 9th International Workshop on Computer Aided Systems Theory EUROCAST 2003 held in Las Palmas de Gran Canaria Spain in February 2003 The 60 revised full papers presented were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on complex systems tools and applications logic and formal tools social and intelligent systems distributed computing autonomous and control systems computational methods in bioinformatics natural and artificial neural networks neuroinformatics and neuroimaging and image processing

**Algorithms - ESA 2001** Friedhelm Meyer auf der Heide, 2003-05-15 This book constitutes the refereed proceedings of the 9th Annual European Symposium on Algorithms ESA 2001 held in Aarhus Denmark in August 2001 The 41 revised full papers presented together with three invited contributions were carefully reviewed and selected from 102 submissions The papers are organized in topical sections on caching and prefetching online algorithms data structures optimization and approximation sequences scheduling shortest paths geometry distributed algorithms graph algorithms pricing broadcasting and multicasting graph labeling and graph drawing and graphs

**Geometric Computation** Falai Chen, Dongming Wang, 2004 This book contains tutorial surveys and original research contributions in geometric computing modeling and reasoning Highlighting the role of algebraic computation it covers surface blending implicitization and parametrization automated deduction with Clifford algebra and in real geometry and exact geometric computation Basic techniques advanced methods and new findings are presented coherently with many examples and illustrations Using this book the reader will easily cross the frontiers of symbolic computation computer aided geometric design and automated reasoning The book is also a valuable reference for people working in other relevant areas such as scientific computing computer graphics and artificial intelligence Contents Algebraic Methods in Computer Aided Geometric Design Theoretical and Practical Applications L Gonzlez Vega et al Constructing Piecewise Algebraic Blending Surfaces Y Feng et al Rational Curves and Surfaces Algorithms and Some Applications J R Sendra Panorama of Methods for Exact Implicitization of Algebraic Curves and Surfaces I S Kotsireas Implicitization and Offsetting via Regular Systems D Wang Determining the Intersection Curve of Two 3D Implicit Surfaces by Using Differential Geometry and Algebraic Techniques L Gonzlez Vega et al Analytical Properties of Semi Stationary Subdivision Schemes H Zhang Meshless Method for Numerical Solution of PDE Using Hermitian Interpolation with Radial Basis Z Wu Clifford Algebras in Geometric Computation H Li Automated Deduction in Real Geometry L Yang Automated Derivation of Unknown Relations and Determination of Geometric Loci Y Li On Guaranteed Accuracy Computation C K Yap Dixon A Resultant Quotients for 6 Point Isosceles Triangular Corner Cutting M C Foo Face Recognition Using Hidden Markov Models and Artificial Neural Network Techniques Z Ou B Xue Readership Upper level undergraduates graduate students researchers and engineers in geometric modeling

**Interval**

**Analysis** Günter Mayer, 2017-04-10 This self contained text is a step by step introduction and a complete overview of interval computation and result verification a subject whose importance has steadily increased over the past many years The author an expert in the field gently presents the theory of interval analysis through many examples and exercises and guides the reader from the basics of the theory to current research topics in the mathematics of computation Contents Preliminaries Real intervals Interval vectors interval matrices Expressions P contraction inflation Linear systems of equations Nonlinear systems of equations Eigenvalue problems Automatic differentiation Complex intervals **PROCEEDINGS OF THE 22ND CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2022** Alberto Griggio, Neha Rungta, Georg Weissenbacher, Warren A. Hunt, Jr., 2022-10-12 The Conference on Formal Methods in Computer Aided Design FMCAD is an annual conference on the theory and applications of formal methods in hardware and system in academia and industry for presenting and discussing groundbreaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system testing **Handbook of Discrete and Computational Geometry** Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography



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