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Computer Aided Proofs in Analysis Kenneth R. Meyer,Dieter S. Schmidt,2012-12-06 This IMA Volume in Mathematics and its Applications COMPUTER AIDED PROOFS IN ANALYSIS is based on the proceedings of an IMA Participating Institutions PI Conference held at the University of Cincinnati in April 1989 Each year the 19 Participating Institutions select through a competitive process several conferences proposals from the PIs for partial funding This conference brought together leading figures in a number of fields who were interested in finding exact answers to problems in analysis through computer methods We thank Kenneth Meyer and Dieter Schmidt for organizing the meeting and editing the proceedings A vner Friedman Willard Miller Jr PREFACE Since the dawn of the computer revolution the vast majority of scientific compu tation has dealt with finding approximate solutions of equations However during this time there has been a small cadre seeking precise solutions of equations and rigorous proofs of mathematical results For example number theory and combina torics have a long history of computer assisted proofs such methods are now well established in these fields In analysis the use of computers to obtain exact results has been fragmented into several schools 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 **From Intervals to –?** Vladik Kreinovich,Graçaliz Pereira Dimuro,Antônio Carlos da Rocha Costa,2022-11-28 This book is about methodological aspects of uncertainty propagation in data processing Uncertainty propagation is an important problem while computer algorithms efficiently process data related to many aspects of their lives most of these algorithms implicitly assume that the numbers they process are exact In reality these numbers come from measurements and measurements are never 100% exact Because of this it makes no sense to translate 61 kg into pounds and get the result as computers do with 13 digit accuracy In many cases e g in celestial mechanics the state of a system can be described by a few numbers the values of the corresponding physical quantities In such cases for each of these quantities we know at least the upper bound on the measurement error This bound is either provided by the manufacturer of the measuring instrument or is estimated by the user who calibrates this instrument However in many other cases the description of the system is more complex than a few numbers we need a function to describe a physical field e g electromagnetic field we need a vector in Hilbert space to describe a quantum state we need a pseudo Riemannian space to describe the physical space time etc To describe and process uncertainty in all such cases this book proposes a general methodology a methodology that includes intervals as a particular case The book is recommended to

students and researchers interested in challenging aspects of uncertainty analysis and to practitioners who need to handle uncertainty in such unusual situations Interval Methods for Systems of Equations A. Neumaier,1990 Mathematics of Computing Numerical Analysis Numerical Mathematics Singapore 1988 Agarwal,Chwo,Wilson,2013-11-21

Encyclopedia of Optimization Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling **Applied Interval Analysis** Luc Jaulin,Michel Kieffer,Olivier Didrit,Eric Walter,2012-12-06 At the core of many engineering problems is the solution of sets of equa tions and inequalities and the optimization of cost functions Unfortunately except in special cases such as when a set of equations is linear in its un knowns or when a convex cost function has to be minimized under convex constraints the results obtained by conventional numerical methods are only local and cannot be guaranteed This means for example that the actual global minimum of a cost function may not be reached or that some global minimizers of this cost function may escape detection By contrast interval analysis makes it possible to obtain guaranteed approximations of the set of all the actual solutions of the problem being considered This together with the lack of books presenting interval techniques in such a way that they could become part of any engineering numerical tool kit motivated the writing of this book The adventure started in 1991 with the preparation by Luc Jaulin of his PhD thesis under Eric Walter s supervision It continued with their joint supervision of Olivier Didrit s and Michel Kieffer s PhD theses More than two years ago when we presented our book project to Springer we naively thought that redaction would be a simple matter given what had already been achieved *Discretization in Differential Equations and Enclosures* Ernst Adams,Rainer Ansorge,Christian Grobmann,Hans-Görg Gérg Roos,1987-12-31 No detailed description available for Discretization in Differential Equations and Enclosures State of the Art in Global Optimization Christodoulos A. Floudas,Panos M. Pardalos,2013-12-01 Optimization problems abound in most fields of science engineering and tech nology In many of these problems it is necessary to compute the global optimum or a good approximation of a multivariable function The variables that define the function to be optimized can be continuous and or discrete and in addition many times satisfy certain constraints Global optimization problems belong to the complexity class of NP hard prob lems Such problems are very difficult to solve Traditional descent optimization algorithms based on local information are not adequate for solving these problems In most cases of practical interest the number of local optima increases on the aver age exponentially with the size of the problem number of variables Furthermore most of the traditional approaches fail to escape from a local optimum in order to continue the search for the global solution

Global optimization has received a lot of attention in the past ten years due to the success of new algorithms for solving large classes of problems from diverse areas such as engineering design and control computational chemistry and biology structural optimization computer science operations research and economics This book contains refereed invited papers presented at the conference on State of the Art in Global Optimization Computational Methods and Applications held at Princeton University April 28 30 1995 The conference presented current re search on global optimization and related applications in science and engineering The papers included in this book cover a wide spectrum of approaches for solving global optimization problems and applications Computer Arithmetic and Self-Validating Numerical Methods Christian Ullrich,2014-05-10 Notes and Reports in Mathematics in Science and Engineering Volume VII Computer Arithmetic and Self Validating Numerical Methods compiles papers presented at the first international conference on Computer Arithmetic and Self Validating Numerical Methods held in Basel from October 2 to 6 1989 This book begins by providing a tutorial introduction to computer arithmetic with operations of maximum accuracy differentiation arithmetic and enclosure methods and programming languages for self validating numerical methods The rest of the chapters discuss the determination of guaranteed bounds for eigenvalues by variational methods and guaranteed inclusion of solutions of differential equations An appendix covering the IMACS GAMM resolution on computer arithmetic is provided at the end of this publication This volume is recommended for researchers and professionals working on computer arithmetic and self validating numerical methods **Reliability in Computing** Ramon E. Moore,2014-05-10 Perspectives in Computing Vol 19 Reliability in Computing The Role of Interval Methods in Scientific Computing presents a survey of the role of interval methods in reliable scientific computing including vector arithmetic language description convergence and algorithms The selection takes a look at arithmetic for vector processors FORTRAN SC and reliable expression evaluation in PASCAL SC Discussions focus on interval arithmetic optimal scalar product matrix and vector arithmetic transformation of arithmetic expressions development of FORTRAN SC and language description with examples The text then examines floating point standards algorithms for verified inclusions applications of differentiation arithmetic and interval acceleration of convergence The book ponders on solving systems of linear interval equations interval least squares existence of solutions and iterations for nonlinear equations and interval methods for algebraic equations Topics include interval methods for single equations diagnosing collinearity interval linear equations effects of nonlinearity and bounding the solutions The publication is a valuable source of data for computer science experts and researchers interested in the role of interval methods in reliable scientific computing

Systems, Models and Feedback: Theory and Applications A. Isidori,Tarn,2013-03-09 It is a great honor and privilege to have this opportunity of celebrating the 65th birthday of Professor Antonio Ruberti by holding an International Conference on Systems Models and Feedback The conference and this volume which contains its proceedings is a tribute to Professor Ruberti in acknowledgement of his major contributions to System Theory at a time in which this area was emerging and

consolidat ing as an independent discipline his role as a leader of the Italian academic community his activity in promoting and fostering close scientific relations between Italian and U S scholars in Systems and Control The format of this conference is inspired by a series of seminars initi ated exactly twenty years ago under the direction of Professor Ruberti in Italy and Professor R R Mohler in the U S By bringing together many authoritative talents from both countries these seminars were instrumental in promoting the expansion of System Theory in new areas notably that of Nonlinear Control and were the key to successful scientific careers for many of the younger attendants *Granular, Fuzzy, and Soft Computing* Tsau-Young Lin,Churn-Jung Liau,Janusz Kacprzyk,2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data mining qualitative fuzzy sets and information flow analysis for security applications Granulations can be seen as a natural and ancient methodology deeply rooted in the human mind Many daily things are routinely granulated into sub things The topography of earth is granulated into hills plateaus etc space and time are granulated into infinitesimal granules and a circle is granulated into polygons of infinitesimal sides Such granules led to the invention of calculus topology and non standard analysis Formalization of general granulation was difficult but as shown in this volume great progress has been made in combing discrete and continuous mathematics under one roof for a broad range of applications in data science

The Mathematics of Surfaces IX Roberto Cipolla,Ralph Martin,2012-12-06 These proceedings collect the papers accepted for presentation at the bien nial IMA Conference on the Mathematics of Surfaces held in the University of Cambridge 4 7 September 2000 While there are many international con ferences in this fruitful borderland of mathematics computer graphics and engineering this is the oldest the most frequent and the only one to concen trate on surfaces Contributors to this volume come from twelve different countries in Eu rope North America and Asia Their contributions reflect the wide diversity of present day applications which include modelling parts of the human body for medical purposes as well as the production of cars aircraft and engineer ing components Some applications involve design or construction of surfaces by interpolating or approximating data given at points or on curves Others consider the problem of reverse engineering giving a mathematical descrip tion of an already constructed object We are particularly grateful to Pamela Bye at the Institue of Mathemat ics and its Applications for help in making arrangements Stephanie Harding and Karen Barker at Springer Verlag London for publishing this volume and to Kwan Yee Kenneth Wong Cambridge for his heroic help with com piling the

proceedings and for dealing with numerous technicalities arising from large and numerous computer files Following this Preface is a listing of the programme committee who with the help of their colleagues did much work in refereeing the papers for these proceedings *Integer Programming and Related Areas* Rabe v. Randow,2012-12-06 The fields of integer programming and combinatorial optimization continue to be areas of great vitality with an ever increasing number of publications and journals appearing A classified bibliography thus continues to be necessary and useful today even more so than it did when the project of which this is the fifth volume was started in 1970 in the Institut fur Okonometrie und Operations Research of the University of Bonn The pioneering first volume was compiled by Claus Kastning during the years 1970 1975 and appeared in 1976 as Volume 128 of the series Lecture Notes in Economics and Mathematical Systems published by the Springer Verlag Work on the project was continued by Dirk Hausmann Reinhardt Euler and Rabe von Randow and resulted in the publication of the second third and fourth volumes in 1978 1982 and 1985 Volumes 160 197 and 243 of the above series The present book constitutes the fifth volume of the bibliography and covers the period from autumn 1984 to the end of 1987 It contains 5864 new publications by 4480 authors and was compiled by Rabe von Randow Its form is practically identical to that of the first four volumes some additions having been made to the subject list **CONCUR '94: Concurrency Theory** Bengt Jonsson,Joachim Parrow,2006-04-10 This volume constitutes the proceedings of the Fifth International Conference on Concurrency Theory CONCUR 94 held at Uppsala Sweden in August 1994 In total 29 refereed research papers selected from 108 submissions for the conference are presented together with full papers or abstracts of the 5 invited talks by prominent speakers The book contains recent results on all relevant aspects of concurrency research and thus competently documents the progress of the field since the predecessor conference CONCUR 93 the proceedings of which are published as LNCS 715 **Structural Information and Communication Complexity** Paola Flocchini,Leszek Gasieniec,2006-06-24 This book constitutes the refereed proceedings of the 13th International Colloquium on Structural Information and Communication Complexity SIROCCO 2006 held in Chester UK July 2006 The book presents 24 revised full papers together with three invited talks on topics in distributed and parallel computing information dissemination communication complexity interconnection networks high speed networks wireless and sensor networks mobile computing optical computing autonomous robots and related areas **Domination in Graphs** TeresaW. Haynes,2017-11-22 Presents the latest in graph domination by leading researchers from around the world furnishing known results open research problems and proof techniques Maintains standardized terminology and notation throughout for greater accessibility Covers recent developments in domination in graphs and digraphs dominating functions combinatorial problems on chessboards and more **Computing and Combinatorics** Tao Jiang,1997-07-30 The book is aimed at graduate students researchers engineers and physicists involved in fluid computations An up to date account is given of the present state of the art of numerical methods employed in computational fluid dynamics The underlying numerical principles are treated with a fair

amount of detail using elementary methods Attention is given to the difficulties arising from geometric complexity of the flow domain Uniform accuracy for singular perturbation problems is studied pointing the way to accurate computation of flows at high Reynolds number Unified methods for compressible and incompressible flows are discussed A treatment of the shallow water equations is included A basic introduction is given to efficient iterative solution methods Many pointers are given to the current literature facilitating further study **Set Optimization and Applications - The State of the Art** Andreas H Hamel,Frank Heyde,Andreas Löhne,Birgit Rudloff,Carola Schrage,2015-11-21 This volume presents five surveys with extensive bibliographies and six original contributions on set optimization and its applications in mathematical finance and game theory The topics range from more conventional approaches that look for minimal maximal elements with respect to vector orders or set relations to the new complete lattice approach that comprises a coherent solution concept for set optimization problems along with existence results duality theorems optimality conditions variational inequalities and theoretical foundations for algorithms Modern approaches to scalarization methods can be found as well as a fundamental contribution to conditional analysis The theory is tailor made for financial applications in particular risk evaluation and super hedging for market models with transaction costs but it also provides a refreshing new perspective on vector optimization There is no comparable volume on the market making the book an invaluable resource for researchers working in vector optimization and multi criteria decision making mathematical finance and economics as well as set valued variational analysis

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