

Scientific Computing, Validated Numerics, Interval Methods

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and
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Scientific Computing Validated Numerics Interval Methods

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Andrade Cetto**



Scientific Computing Validated Numerics Interval Methods:

Scientific Computing, Validated Numerics, Interval Methods Walter Krämer, Jürgen Wolff von Gudenberg, 2013-04-17
Scan 2000 the GAMM IMACS International Symposium on Scientific Computing Computer Arithmetic and Validated Numerics and Interval 2000 the International Conference on Interval Methods in Science and Engineering were jointly held in Karlsruhe September 19 22 2000 The joint conference continued the series of 7 previous Scan symposia under the joint sponsorship of GAMM and IMACS These conferences have traditionally covered the numerical and algorithmic aspects of scientific computing with a strong emphasis on validation and verification of computed results as well as on arithmetic programming and algorithmic tools for this purpose The conference further continued the series of 4 former Interval conferences focusing on interval methods and their application in science and engineering The objectives are to propagate current applications and research as well as to promote a greater understanding and increased awareness of the subject matters The symposium was held in Karlsruhe the European cradle of interval arithmetic and self validating numerics and attracted 193 researchers from 33 countries 12 invited and 153 contributed talks were given But not only the quantity was overwhelming we were deeply impressed by the emerging maturity of our discipline There were many talks discussing a wide variety of serious applications stretching all parts of mathematical modelling New efficient publicly available or even commercial tools were proposed or presented and also foundations of the theory of intervals and reliable computations were considerably strengthened

Validated Numerics Warwick Tucker, 2023-06-06 Validated Numerics contains introductory material on interval arithmetic and rigorous computations that is easily accessible to students with little background in mathematics and computer programming I am not aware of any other book like it The exercises and computer labs make it ideal for the classroom and the references offer a good starting point for readers trying to gain deeper knowledge in this area Zbigniew Galias AGH University of Science and Technology Krakow A significant contribution particularly since there are not many texts in this area Validated Numerics will be read by those interested in interval arithmetic numerical analysis and ways to make computer simulations more robust and less susceptible to errors It is well written and well organized A J Meir Auburn University

Scientific Computing, Computer Arithmetic, and Validated Numerics Marco Nehmeier, Jürgen Wolff von Gudenberg, Warwick Tucker, 2016-04-08 This book constitutes the refereed post proceedings of the 16th International Symposium SCAN 2014 held in Würzburg Germany in September 2014 The 22 full papers presented were carefully reviewed and selected from 60 submissions The main concerns of research addressed by SCAN conferences are validation verification or reliable assertions of numerical computations Interval arithmetic and other treatments of uncertainty are developed as appropriate tools

Large-Scale Scientific Computing Ivan Lirkov, Svetozar D. Margenov, Jerzy Wasniewski, 2009-03-26 Coverage in this proceedings volume includes robust multilevel and hierarchical preconditioning methods applications for large scale computations and optimization of coupled engineering problems and

applications of metaheuristics to large scale problems

Scientific Computing and Validated Numerics G.

Alefeld, Andreas Frommer, Bruno Lang, 1996 The International Symposium on Scientific Computing Computer Arithmetic and Validated Numerics SCAN is held biannually the fourth conference took place in Wuppertal 1995 This volume contains contributions from outstanding research specialists based on their presentations at SCAN 95 It covers all aspects of scientific computing with validation starting with the latest developments in the design of floating point units together with algorithms for floating point operations and elementary function evaluations with maximum accuracy The book continues by treating scientific computing methods for many areas of applied mathematics such as numerical linear algebra nonlinear equations global optimization ordinary and partial differential equations and dynamical systems Some computer science aspects like complexity are also considered as are examples where validation methods have successfully be used in applications from the engineering sciences

Numerical Validation in Current Hardware Architectures Annie A.M. Cuyt, Walter Krämer, Wolfram Luther, Peter Markstein, 2009-04-24 The major emphasis of the Dagstuhl Seminar on Numerical Validation in Current Hardware Architectures lay on numerical validation in current hardware architectures and software environments The general idea was to bring together experts who are concerned with computer arithmetic in systems with actual processor architectures and scientists who develop use and need techniques from verified computation in their applications Topics of the seminar therefore included The ongoing revision of the IEEE 754 854 standard for floating point arithmetic Feasible ways to implement multiple precision multiword arithmetic and to compute the actual precision at run time according to the needs of input data The achievement of a similar behavior of fixed point floating point and interval arithmetic across language compliant implementations The design of robust and efficient numerical programs portable from diverse computers to those that adhere to the IEEE standard The development and propagation of validated special purpose software in different application areas Error analysis in several contexts Certification of numerical programs verification and validation assessment Computer arithmetic plays an important role at the hardware and software level when microprocessors embedded systems or grids are designed The reliability of numerical software strongly depends on the compliance with the corresponding floating point norms Standard CISC processors follow the 1985 IEEE norm 754 which is currently under revision but the new highly performing CELL processor is not fully IEEE compliant

Validated Numerics Warwick Tucker, 2011-07-05 A comprehensive self contained primer on validated numerics This textbook provides a comprehensive introduction to the theory and practice of validated numerics an emerging new field that combines the strengths of scientific computing and pure mathematics In numerous fields ranging from pharmaceuticals and engineering to weather prediction and robotics fast and precise computations are essential Based on the theory of set valued analysis a new suite of numerical methods is developed producing efficient and reliable solvers for numerous problems in nonlinear analysis Validated numerics yields rigorous computations that can find all possible solutions to a problem while taking into account all possible sources of error fast and

with guaranteed accuracy Validated Numerics offers a self contained primer on the subject guiding readers from the basics to more advanced concepts and techniques This book is an essential resource for those entering this fast developing field and it is also the ideal textbook for graduate students and advanced undergraduates needing an accessible introduction to the subject Validated Numerics features many examples exercises and computer labs using MATLAB C as well as detailed appendixes and an extensive bibliography for further reading Provides a comprehensive self contained introduction to validated numerics Requires no advanced mathematics or programming skills Features many examples exercises and computer labs Includes code snippets that illustrate implementation Suitable as a textbook for graduate students and advanced undergraduates

Numerical Methods and Applications Ivan Dimov, Lirkov Ivan Dimov, Stefka Dimova, Natalia Kolkovska, 2011-01-14 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Numerical Methods and Applications NMA 2010 held in Borovets Bulgaria in August 2010 The 60 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions for inclusion in this book The papers are organized in topical sections on Monte Carlo and quasi Monte Carlo methods environmental modeling grid computing and applications metaheuristics for optimization problems and modeling and simulation of electrochemical processes

Interval Methods for Solving Nonlinear Constraint Satisfaction, Optimization and Similar Problems Bartłomiej Jacek Kubica, 2019-03-08 This book highlights recent research on interval methods for solving nonlinear constraint satisfaction optimization and similar problems Further it presents a comprehensive survey of applications in various branches of robotics artificial intelligence systems economics control theory dynamical systems theory and others Three appendices on the notation representation of numbers used as intervals endpoints and sample implementations of the interval data type in several programming languages round out the coverage

Informatics in Control, Automation and Robotics Joaquim Filipe, Jean-Louis Ferrier, Juan Andrade Cetto, 2008-09-27 The present book includes a set of selected papers from the fourth International Conference on Informatics in Control Automation and Robotics ICINCO 2007 held at the University of Angers France from 9 to 12 May 2007 The conference was organized in three simultaneous tracks Intelligent Control Systems and Optimization Robotics and Automation and Systems Modeling Signal Processing and Control The book is based on the same structure ICINCO 2007 received 435 paper submissions from more than 50 different countries in all continents From these after a blind review process only 52 were accepted as full papers of which 22 were selected for inclusion in this book based on the classifications provided by the Program Committee The selected papers reflect the interdisciplinary nature of the conference The diversity of topics is an important feature of this conference enabling an overall perception of several important scientific and technological trends These high quality standards will be maintained and reinforced at ICINCO 2008 to be held in Funchal Madeira Portugal and in future editions of this conference Furthermore ICINCO 2007 included 3 plenary keynote lectures given by Dimitar Filev Ford Motor Company

Patrick Millot Universit de Valenciennes and Mark W Spong University of Illinois at Urbana Champaign

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