Complex Interval Arithmetic and Its Applications

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Complex Interval Arithmetic And Its Applications:

   Complex Interval Arithmetic and Its Applications Miodrag Petković,Ljiljana D. Petkovic,1998 The aim of this book is to present formulas and methods developed using complex interval arithmetic While most of numerical methods described in the literature deal with real intervals and real vectors there is no systematic study of methods in complex interval arithmetic The book fills this gap Several main subjects are considered outer estimates for the range of complex functions especially complex centered forms the best approximations of elementary complex functions by disks iterative methods for the inclusion by polynomial zeros including their implementation on parallel computers the analysis of numerical stability of iterative methods by using complex interval arithmetic and numerical computation of curvilinear integrals with error bounds Mainly new methods are presented developed over the last years including a lot of very recent results by the authors some of which have not been published before   *Theories of Interval Arithmetic* Hend Dawood,2011-10-07 Scientists are all the time in a struggle with uncertainty which is always a threat to a trustworthy scientific knowledge A very simple and natural idea to defeat uncertainty is that of enclosing uncertain measured values in real closed intervals On the basis of this idea interval arithmetic is constructed The idea of calculating with intervals is not completely new in mathematics the concept has been known since Archimedes who used guaranteed lower and upper bounds to compute his constant Pi Interval arithmetic is now a broad field in which rigorous mathematics is associated with scientific computing This connection makes it possible to solve uncertainty problems that cannot be efficiently solved by floating point arithmetic Today application areas of interval methods include electrical engineering control theory remote sensing experimental and computational physics chaotic systems celestial mechanics signal processing computer graphics robotics and computer assisted proofs The purpose of this book is to be a concise but informative introduction to the theories of interval arithmetic as well as to some of their computational and scientific applications Editorial Reviews This new book by Hend Dawood is a fresh introduction to some of the basics of interval computation It stops short of discussing the more complicated subdivision methods for converging to ranges of values however it provides a bit of perspective about complex interval arithmetic constraint intervals and modal intervals and it does go into the design of hardware operations for interval arithmetic which is something still to be done by computer manufacturers Ramon E Moore The Founder of Interval Computations Professor Emeritus of Computer and Information Science Department of Mathematics The Ohio State University Columbus U S A A popular math oriented introduction to interval computations and its applications This short book contains an explanation of the need for interval computations a brief history of interval computations and main interval computation techniques It also provides an impressive list of main practical applications of interval techniques Vladik Kreinovich International Journal of Uncertainty Fuzziness and Knowledge Based Systems Professor of Computer Science University of Texas at El Paso El Paso Texas U S A I am delighted to see one more Egyptian citizen re entering the field of interval mathematics invented in this very country

thousands years ago Marek W Gutowski Institute of Physics Polish Academy of Sciences Warszawa Poland   Complex Interval Arithmetic with Some Applications Raymond E. Boche,1966   **Hard and Soft Computing for Artificial Intelligence, Multimedia and Security** Shin-ya Kobayashi,Andrzej Piegat,Jerzy Pejaś,Imed El Fray,Janusz Kacprzyk,2016-10-19 This book gathers the proceedings of the 20th International Conference on Advanced Computer Systems 2016 held in Mi dzyzdroje Poland on October 19 21 2016 Addressing topics that include artificial intelligence AI software technologies multimedia systems IT security and design of information systems the main purpose of the conference and the book is to create an opportunity to exchange significant insights on this area between science and business In particular this expertise concerns the use of hard and soft computational methods for artificial intelligence image and data processing and finally the design of information and security systems The book contains a collection of carefully selected peer reviewed papers combining high quality original unpublished research case studies and implementation experiences   Mathematics of Uncertainty Modeling in the Analysis of Engineering and Science Problems Chakraverty, S.,2014-01-31 This book provides the reader with basic concepts for soft computing and other methods for various means of uncertainty in handling solutions analysis and applications Provided by publisher   Granular Computing Witold Pedrycz,2001-06-06 Granular Computing is concerned with constructing and processing carried out at the level of information granules Using information granules we comprehend the world and interact with it no matter which intelligent endeavor this may involve The landscape of granular computing is immensely rich and involves set theory interval mathematics fuzzy sets rough sets random sets linked together in a highly synergetic environment This volume is a first comprehensive treatment of this emerging paradigm and embraces its fundamentals underlying methodological framework and a sound algorithmic environment The panoply of applications covered includes system identification telecommunications linguistics and music processing Written by experts in the field this volume will appeal to all developing intelligent systems either working at the methodological level or interested in detailed system realization   **Advances in Analog Circuits** Esteban Tlelo-Cuautle,2011-02-02 This book highlights key design issues and challenges to guarantee the development of successful applications of analog circuits Researchers around the world share acquired experience and insights to develop advances in analog circuit design modeling and simulation The key contributions of the sixteen chapters focus on recent advances in analog circuits to accomplish academic or industrial target specifications   **Encyclopedia of Data Science and Machine Learning** Wang, John,2023-01-20 Big data and machine learning are driving the Fourth Industrial Revolution With the age of big data upon us we risk drowning in a flood of digital data Big data has now become a critical part of both the business world and daily life as the synthesis and synergy of machine learning and big data has enormous potential Big data and machine learning are projected to not only maximize citizen wealth but also promote societal health As big data continues to evolve and the demand for professionals in the field increases access to the most current information about the concepts

issues trends and technologies in this interdisciplinary area is needed The Encyclopedia of Data Science and Machine Learning examines current state of the art research in the areas of data science machine learning data mining and more It provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning emphasizing emerging theories principals models processes and applications to inspire and circulate innovative findings into research business and communities Covering topics such as benefit management recommendation system analysis and global software development this expansive reference provides a dynamic resource for data scientists data analysts computer scientists technical managers corporate executives students and educators of higher education government officials researchers and academicians   *Developments in Reliable Computing* Tibor Csendes,2013-04-17 The SCAN conference the International Symposium on Scientific Com puting Computer Arithmetic and Validated Numerics takes place bian nually under the joint auspices of GAMM Gesellschaft fiir Angewandte Mathematik und Mechanik and IMACS International Association for Mathematics and Computers in Simulation SCAN 98 attracted more than 100 participants from 21 countries all over the world During the four days from September 22 to 25 nine highlighted plenary lectures and over 70 contributed talks were given These figures indicate a large participation which was partly caused by the attraction of the organizing country Hungary but also the effec tive support system have contributed to the success The conference was substantially supported by the Hungarian Research Fund OTKA GAMM the National Technology Development Board OMFB and by the J6zsef Attila University Due to this funding it was possible to subsidize the participation of over 20 scientists mainly from Eastern European countries It is important that the possibly first participation of 6 young researchers was made possible due to the obtained support The number of East European participants was relatively high These results are especially valuable since in contrast to the usual 2 years period the present meeting was organized just one year after the last SCAN xx conference   **Encyclopedia of Computer Science and Technology** Allen Kent,James G. Williams,1989-05-31 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions
      Point Estimation Theory and Its Applications Miodrag Petković,1997   *Advances in Fuzzy Logic and Technology 2017* Janusz Kacprzyk,Eulalia Szmidt,Slawomir Zadrożny,K. T. Atanassov,Maciej Krawczak,2017-08-29 This volume constitutes the proceedings of two collocated international conferences EUSFLAT 2017 the 10th edition of the flagship Conference of the European Society for Fuzzy Logic and Technology held in Warsaw Poland on September 11 15 2017 and IWIFSGN 2017 The Sixteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets held in Warsaw on September 13 15 2017 The conferences were organized by the Systems Research Institute Polish Academy of Sciences Department IV of

Engineering Sciences Polish Academy of Sciences and the Polish Operational and Systems Research Society in collaboration with the European Society for Fuzzy Logic and Technology EUSFLAT the Bulgarian Academy of Sciences and various European universities The aim of the EUSFLAT 2017 was to bring together theoreticians and practitioners working on fuzzy logic fuzzy systems soft computing and related areas and to provide a platform for exchanging ideas and discussing the l atest trends and ideas while the aim of IWIFSGN 2017 was to discuss new developments in extensions of the concept of a fuzzy set such as an intuitionistic fuzzy set as well as other concepts like that of a generalized net The papers included written by leading international experts as well as the special sessions and panel discussions contribute to the development the field strengthen collaborations and intensify networking **Bulletin of the Belgian Mathematical Society, Simon Stevin** ,2001 *Applications of Interval Computations* R. Baker Kearfott,V. Kreinovich,2013-12-01 Primary Audience for the Book Specialists in numerical computations who are interested in algorithms with automatic result verification Engineers scientists and practitioners who desire results with automatic verification and who would therefore benefit from the experience of suc cessful applications Students in applied mathematics and computer science who want to learn these methods Goal Of the Book This book contains surveys of applications of interval computations i e appli cations of numerical methods with automatic result verification that were pre sented at an international workshop on the subject in EI Paso Texas February 23 25 1995 The purpose of this book is to disseminate detailed and surveyed information about existing and potential applications of this new growing field Brief Description of the Papers At the most fundamental level interval arithmetic operations work with sets The result of a single arithmetic operation is the set of all possible results as the operands range over the domain For example 0 9 1 1 2 9 3 1 3 8 4 2 where 3 8 4 2 x ylx E 0 9 1 1 and y E 3 8 4 2 The power of interval arithmetic comes from the fact that i the elementary operations and standard functions can be computed for intervals with formulas and subroutines and ii directed roundings can be used so that the images of these operations e g

Mathematical Reviews ,2006 **MRC Technical Summary Report** University of Wisconsin--Madison. Mathematics Research Center,1984 **Reviews in Numerical Analysis, 1980-86** ,1987 These five volumes bring together a wealth of bibliographic information in the area of numerical analysis Containing over 17 600 reviews of articles books and conference proceedings these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986 Author and key indexes appear at the end of volume 5 Modern Practice in Stress and Vibration Analysis Matthew Cartmell,2003 The trend towards the integration of modeling analysis and design tools which began in the 1990s is now well underway and it is becoming increasingly evident that formerly disparate engineering functions such as stress analysis fracture mechanics elasticity and vibration analysis will continue to move closer together as seamlessly integrated computational design tools evolve The series of Modern Practice in Stress and Vibration Analysis conferences has always reflected this alliance with its tradition of encouraging specialist contributions to the development and enhanced application

of powerful numerical methods in conjunction with seminal papers on new techniques in experimental mechanics **Topics in Numerical Analysis** G. Alefeld,Xiaojun Chen,2001-09-11 This collection of papers on numerical analysis with special emphasis on nonlinear problems covers a broad spectrum of fields Several papers are involved in applying numerical methods for proving the existence of solutions of nonlinear problems e g of boundary problems or of obstacle problems Naturally the solution of linear and nonlinear problems by iterative methods is the subject of a couple of papers Here topics like the fast verification of solutions of monotone matrix equations the convergence of linear asynchronous iteration with spectral radius of modulus one or aggregation and disaggregation methods for p cyclic Markov chains are treated On the other hand papers involved in optimization problems can be found Nearly all fields of modern numerical analysis are touched by at least one paper **PESC '96** ,1996

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