

Hend Dawood

Theories of Interval Arithmetic

Mathematical Foundations and Applications



Theo M. V. Janssen

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 Mathematical Methods in Interdisciplinary Sciences Snehashish Chakraverty, 2020-06-15 Brings mathematics to bear on your real world scientific problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real life scientific and technological problems The collection of chapters Dr Snehashish Chakraverty has provided describe in detail how to bring mathematics statistics and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study Graduate students postgraduate students researchers and professors will all benefit significantly from the author's clear approach to applied mathematics. The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems

requiring creative solutions Subjects include Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence It concludes with examinations of various fields of application like infectious diseases autonomous car and monotone inclusion 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 10th International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions -ICSCCW-2019 Rafik A. Aliev, Janusz Kacprzyk, Witold Pedrycz, Mo Jamshidi, Mustafa B. Babanli, Fahreddin M. Sadikoglu, 2019-11-19 This book presents the proceedings of the 10th Conference on Theory and Applications of Soft Computing Computing with Words and Perceptions ICSCCW 2019 held in Prague Czech Republic on August 27 28 2019 It includes contributions from diverse areas of soft computing and computing with words such as uncertain computation decision making under imperfect information neuro fuzzy approaches deep learning natural language processing and others The topics of the papers include theory and applications of soft computing information granulation computing with words computing with perceptions image processing with soft computing probabilistic reasoning intelligent control machine learning fuzzy logic in data analytics and data mining evolutionary computing chaotic systems soft computing in business economics and finance fuzzy logic and soft computing in earth sciences fuzzy logic and soft computing in engineering fuzzy logic and soft computing in material sciences soft computing in medicine biomedical engineering and pharmaceutical sciences Showcasing new ideas in the field of theories of soft computing and computing with words and their applications in economics business industry education medicine earth sciences and other fields it promotes the development and implementation of these paradigms in various real world contexts This book is a useful guide for academics practitioners and graduates Computational Science - ICCS 2018 Yong Shi, Haohuan Fu, Yingjie Tian, Valeria V. Krzhizhanovskaya, Michael Harold Lees, Jack Dongarra, Peter M. A. Sloot, 2018-06-12 The three volume set LNCS 10860 10861 and 10862 constitutes the proceedings of the 18th International Conference on Computational Science ICCS 2018 held in Wuxi China in June 2018 The total of 155 full and 66 short papers presented in this book set was carefully reviewed and selected from 404 submissions The papers were organized in topical sections named Part I ICCS Main Track Part II Track of Advances in High Performance Computational Earth Sciences Applications and Frameworks Track of Agent Based Simulations Adaptive Algorithms and Solvers Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning Track of Architecture Languages Compilation and Hardware Support for Emerging ManYcore Systems Track of Biomedical and Bioinformatics Challenges for Computer Science Track of Computational Finance and Business Intelligence Track of Computational Optimization Modelling and Simulation Track of Data Modeling and Computation in IoT and Smart Systems Track of Data

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