



Hend Dawood

Theories of Interval Arithmetic

Mathematical Foundations and Applications



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Theories Of Interval Arithmetic Mathematical Foundations And Applications

Hend Dawood



Theories Of Interval Arithmetic Mathematical Foundations And Applications:

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 π . 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 of years ago.

Marek W Gutowski, Institute of Physics, Polish Academy of Sciences, Warszawa, Poland Mathematical Methods in Interdisciplinary Sciences

Snehashish Chakraverty, 2020-07-15 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 describes 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 problems

Interval Analysis Navid Razmjooy, 2023-12-27 Interval Analysis An innovative and unique application of interval analysis to optimal control problems In Interval Analysis Application in the Optimal Control Problems celebrated researcher and engineer Dr Navid Razmjooy delivers an expert discussion of the uncertainties in the analysis of optimal control problems In the book Dr Razmjooy uses an open ended approach to solving optimal control problems with indefinite intervals Utilizing an extended Runge Kutta method the author demonstrates how to accelerate its speed with the piecewise function You ll find recursive methods used to achieve more compact answers as well as how to solve optimal control problems using the interval Chebyshev s function The book also contains A thorough introduction to common errors and mistakes generating uncertainties in physical models Comprehensive explorations of the literature on the subject including Hukurara s derivatives Practical discussions of the interval analysis and its variants including the classical Minkowski methods Complete treatments of existing control methods including classic conventional advanced and robust control Perfect for master s and PhD students working on system uncertainties Interval Analysis Application in the Optimal Control Problems will also benefit researchers working in laboratories universities and research centers

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

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

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 Driven Computational Sciences Track of Mathematical Methods and Algorithms for Extreme Scale Track of Multiscale Modelling and Simulation Part III Track of Simulations of Flow and Transport Modeling Algorithms and Computation Track of Solving Problems with Uncertainties Track of Teaching Computational Science Poster Papers

International Program and Project Management — Best Practices in Selected Industries Kenneth David Strang, Narasimha Rao Vajjhala, 2025-03-06 This book examines the latest best practices in international program and project management offering invaluable insights across various industries Edited by renowned experts this book brings together a diverse range of case studies and research from leading scholars and practitioners worldwide From a detailed macro environmental analysis of contemporary project management to exploring the complexities of AI project management each chapter highlights critical strategies tools and methodologies needed to tackle today's evolving challenges in program and project management Topics such as ISO standards ISO 21502 project management body of knowledge PMBOK risk management in high complexity environments stakeholder management and agile business intelligence projects are discussed through practical case studies from industries ranging from fintech and biopharmaceuticals to public administration This book is an essential resource for project managers researchers and industry professionals seeking to enhance their understanding of global project management dynamics and apply cutting edge approaches across sectors Chapter 7 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Facets of Uncertainties and Applications Mihir K. Chakraborty, Andrzej Skowron, Manoranjan Maiti, Samarjit Kar, 2015-05-11 Since the emergence of the formal concept of probability theory in the seventeenth century uncertainty has been perceived solely in terms of probability theory However this apparently unique link between uncertainty and probability theory has come under investigation a few decades back Uncertainties are nowadays accepted to be of various kinds

Uncertainty in general could refer to different sense like not certainly known questionable problematic vague not definite or determined ambiguous liable to change not reliable In Indian languages particularly in Sanskrit based languages there are other higher levels of uncertainties It has been shown that several mathematical concepts such as the theory of fuzzy sets theory of rough sets evidence theory possibility theory theory of complex systems and complex network theory of fuzzy measures and uncertainty theory can also successfully model uncertainty

Trilogy Of Numbers And Arithmetic - Book 1: History Of Numbers And Arithmetic: An Information Perspective Mark Burgin, 2022-04-22 The book is the first in the trilogy which will bring you to the fascinating world of numbers and operations with them Numbers provide information about myriads of things Together with operations numbers constitute arithmetic forming in basic intellectual instruments of theoretical and practical activity of people and offering powerful tools for representation acquisition transmission processing storage and management of information about the world The history of numbers and arithmetic is the topic of a variety of books and at the same time it is extensively presented in many books on the history of mathematics However all of them at best bring the reader to the end of the 19th century without including the developments in these areas in the 20th century and later Besides such books consider and describe only the most popular classes of numbers such as whole numbers or real numbers At the same time a diversity of new classes of numbers and arithmetic were introduced in the 20th century This book looks into the chronicle of numbers and arithmetic from ancient times all the way to 21st century It also includes the developments in these areas in the 20th century and later A unique aspect of this book is its information orientation of the exposition of the history of numbers and arithmetic

Grey Systems Theory in Business Management Moses Olabhele Esangbedo, Jianwu Xue, 2025-01-23 This book is dedicated to addressing the central challenge of making informed business decisions within an environment characterized by uncertainty employing Multiple Criteria Decision Making MCDM methodologies Chapter 1 provides an overview of the related concepts of grey systems theory Chapter 2 proposes evaluation criteria for five major themes including human resource information systems and contractor selection problems Chapters 3 6 present four improved grey hybrid weighting methods the grey rank order centroid method the grey regulatory focus theory method the grey step wise weight analysis ratio evaluation and the grey point allocation weighting method Chapters 7 10 introduce four improved hybrid grey evaluation methods the grey weighted sum model grey relational analysis the grey regime method and the grey integer linear programming method Chapters 11 and 12 discuss additional grey decision making methods and conclusions are drawn along with future prospects

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Theories Of Interval Arithmetic Mathematical Foundations And Applications**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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