

Springer Uncertainty Research

Baoding Liu

Uncertainty Theory

Fourth Edition



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Uncertainty Theory Baoding Liu, 2014-11-03 When no samples are available to estimate a probability distribution we have to invite some domain experts to evaluate the belief degree that each event will happen Perhaps some people think that the belief degree should be modeled by subjective probability or fuzzy set theory However it is usually inappropriate because both of them may lead to counterintuitive results in this case In order to rationally deal with belief degrees uncertainty theory was founded in 2007 and subsequently studied by many researchers Nowadays uncertainty theory has become a branch of axiomatic mathematics for modeling belief degrees This is an introductory textbook on uncertainty theory uncertain programming uncertain statistics uncertain risk analysis uncertain reliability analysis uncertain set uncertain logic uncertain inference uncertain process uncertain calculus and uncertain differential equation This textbook also shows applications of uncertainty theory to scheduling logistics networks data mining control and finance **Uncertainty Theory**

Baoding Liu, 2004 This book provides a self contained comprehensive and up to date presentation of uncertainty theory The main purpose is to equip the readers with an axiomatic approach to deal with uncertainty Mathematicians researchers engineers designers and students in the field of applied mathematics operations research statistics industrial engineering information science and management science will find this work a useful reference BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Managing in Uncertainty: Theory and Practice Constantin

Zopounidis, Panos M. Pardalos, 2010-12-03 This book provides a new point of view on the subject of the management of uncertainty It covers a wide variety of both theoretical and practical issues involving the analysis and management of uncertainty in the fields of finance management and marketing Audience Researchers and professionals from operations research management science and economics **Neutrosophic Sets and Systems, vol. 53/2023** Florentin

Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-01-15 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i.e. notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel's dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of intuitionistic fuzzy set and respectively

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Safety and Reliability - Safe Societies in a Changing World Stein Haugen, Anne Barros, Coen Gulijk, Trond Kongsvik, Jan Erik Vinnem, 2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17-21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management Safety and Reliability Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and aerospace marine transport and engineering railways road transport automotive engineering civil engineering critical infrastructures electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications insurance and finance manufacturing marine transport mechanical engineering security and protection and policy making

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mathematical methods in addressing challenges in biofuel production and renewable natural resources making it highly relevant for professionals and researchers in these fields Covers new research in fixed point theory including methods for proving the existence of superior fixed points and applications to nonlinear equations Includes theoretical foundations and practical applications providing a balanced approach that makes complex concepts accessible while maintaining a focus on cutting edge developments The book is for researchers and scholars of applied mathematics and readers interested in the advancement of Quantum Calculus and Functional Analysis

Uncertain Optimal Control Yuanguo Zhu,2018-08-29 This book introduces the theory and applications of uncertain optimal control and establishes two types of models including expected value uncertain optimal control and optimistic value uncertain optimal control These models which have continuous time forms and discrete time forms make use of dynamic programming The uncertain optimal control theory relates to equations of optimality uncertain bang bang optimal control optimal control with switched uncertain system and optimal control for uncertain system with time delay Uncertain optimal control has applications in portfolio selection engineering and games The book is a useful resource for researchers engineers and students in the fields of mathematics cybernetics operations research industrial engineering artificial intelligence economics and management science

Applied Research in Uncertainty Modeling and Analysis Bilal M. Ayyub,2007-12-29 The application areas of uncertainty are numerous and diverse including all fields of engineering computer science systems control and finance Determining appropriate ways and methods of dealing with uncertainty has been a constant challenge The theme for this book is better understanding and the application of uncertainty theories This book with invited chapters deals with the uncertainty phenomena in diverse fields The book is an outgrowth of the Fourth International Symposium on Uncertainty Modeling and Analysis ISUMA which was held at the center of Adult Education College Park Maryland in September 2003 All of the chapters have been carefully edited following a review process in which the editorial committee scrutinized each chapter The contents of the book are reported in twenty three chapters covering more than pages This book is divided into six main sections Part I Chapters 1 4 presents the philosophical and theoretical foundation of uncertainty new computational directions in neural networks and some theoretical foundation of fuzzy systems Part II Chapters 5 8 reports on biomedical and chemical engineering applications The sections looks at noise reduction techniques using hidden Markov models evaluation of biomedical signals using neural networks and changes in medical image detection using Markov Random Field and Mean Field theory One of the chapters reports on optimization in chemical engineering processes

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Advanced Materials and Computer Science Garry Zhu, 2011-04-19 Selected peer reviewed paper from 2011 International Conference on Advanced Materials and Computer Science ICAMCS 2011 May 1 2 2010 in Chengdu China

Handbook on Cities and Complexity Portugali, Juval, 2021-09-16 Written by some of the founders of complexity theory and complexity theories of cities CTC this Handbook expertly guides the reader through over forty years of intertwined developments the emergence of general theories of complex self organized systems and the consequent emergence of CTC

Uncertain Renewal Processes Kai Yao, 2019 This book explores various renewal processes in the context of probability theory uncertainty theory and chance theory It also covers the applications of these renewal processes in maintenance models and insurance risk models The methods used to derive the limit of the renewal rate the reward rate and the availability rate are of particular interest as they can easily be extended to the derivation of other models Its comprehensive and systematic treatment of renewal processes renewal reward processes and the alternating renewal process is one of the book s major features making it particularly valuable for readers who are interested in learning about renewal theory Given its scope the book will benefit researchers engineers and graduate students in the fields of mathematics information science operations research industrial engineering etc

Managing in Uncertainty: Theory and Practice Constantin Zopounidis, Panos M. Pardalos, 1998-08-31 This book provides a new point of view on the subject of the management of uncertainty It covers a wide variety of both theoretical and practical issues involving the analysis and management of uncertainty in the fields of finance management and marketing Audience Researchers and professionals from operations research management science and economics

Proceedings of the 8th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences Jingxiong Zhang, Michael F. Goodchild, 2008

The Geometry of Uncertainty Fabio Cuzzolin, 2021 The principal aim of this book is to introduce to the widest possible audience an original view of belief calculus and uncertainty theory In this geometric approach to uncertainty uncertainty measures can be seen as points of a suitably complex geometric space and manipulated in that space for example combined or conditioned In the chapters in Part I Theories of Uncertainty the author offers an extensive recapitulation of the state of the art in the mathematics of uncertainty This part of the book contains the most comprehensive summary to date of the whole of belief theory with Chap 4 outlining for the first time and in a logical order all the steps of the reasoning chain associated with modelling uncertainty using belief functions in an attempt to provide a self contained manual for the working scientist In addition the book proposes in Chap 5 what is possibly the most

detailed compendium available of all theories of uncertainty Part II The Geometry of Uncertainty is the core of this book as it introduces the author's own geometric approach to uncertainty theory starting with the geometry of belief functions Chap 7 studies the geometry of the space of belief functions or belief space both in terms of a simplex and in terms of its recursive bundle structure Chap 8 extends the analysis to Dempster's rule of combination introducing the notion of a conditional subspace and outlining a simple geometric construction for Dempster's sum Chap 9 delves into the combinatorial properties of plausibility and commonality functions as equivalent representations of the evidence carried by a belief function then Chap 10 starts extending the applicability of the geometric approach to other uncertainty measures focusing in particular on possibility measures consonant belief functions and the related notion of a consistent belief function The chapters in Part III Geometric Interplays are concerned with the interplay of uncertainty measures of different kinds and the geometry of their relationship with a particular focus on the approximation problem Part IV Geometric Reasoning examines the application of the geometric approach to the various elements of the reasoning chain illustrated in Chap 4 in particular conditioning and decision making Part V concludes the book by outlining a future complete statistical theory of random sets future extensions of the geometric approach and identifying high impact applications to climate change machine learning and artificial intelligence The book is suitable for researchers in artificial intelligence statistics and applied science engaged with theories of uncertainty The book is supported with the most comprehensive bibliography on belief and uncertainty theory

Nursing Theories Julia B. George, 2011 Nursing Theories incorporates the latest theories and research methods in nursing today Designed as a tool to help nurses apply concepts and theories to practice this book considers the ideas of well known nursing theorists and relates the work of each to the nursing process **The 34th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference, Adaptive Structures Forum: 93-1370 - 93-1445**, 1993

A Collection of Technical Papers, 1993 **Uncertainty in Engineering** Louis J. M. Aslett, Frank P. A. Coolen, Jasper De Bock, 2021-12-09 This open access book provides an introduction to uncertainty quantification in engineering Starting with preliminaries on Bayesian statistics and Monte Carlo methods followed by material on imprecise probabilities it then focuses on reliability theory and simulation methods for complex systems The final two chapters discuss various aspects of aerospace engineering considering stochastic model updating from an imprecise Bayesian perspective and uncertainty quantification for aerospace flight modelling Written by experts in the subject and based on lectures given at the Second Training School of the European Research and Training Network UTOPIAE Uncertainty Treatment and Optimization in Aerospace Engineering which took place at Durham University United Kingdom from 2 to 6 July 2018 the book offers an essential resource for students as well as scientists and practitioners **Measurement Uncertainty** Simona Salicone, 2010-11-23 The expression of uncertainty in measurement poses a challenge since it involves physical mathematical and philosophical issues This problem is intensified by the limitations of the probabilistic approach used by the current

standard the GUM Instrumentation Standard This text presents an alternative approach It makes full use of the mathematical theory of evidence to express the uncertainty in measurements Coverage provides an overview of the current standard then pinpoints and constructively resolves its limitations Numerous examples throughout help explain the book s unique approach

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Table of Contents Uncertainty Theory Springer Uncertainty Research

1. Understanding the eBook Uncertainty Theory Springer Uncertainty Research
 - The Rise of Digital Reading Uncertainty Theory Springer Uncertainty Research
 - Advantages of eBooks Over Traditional Books
2. Identifying Uncertainty Theory Springer Uncertainty Research
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Uncertainty Theory Springer Uncertainty Research
 - User-Friendly Interface
4. Exploring eBook Recommendations from Uncertainty Theory Springer Uncertainty Research
 - Personalized Recommendations
 - Uncertainty Theory Springer Uncertainty Research User Reviews and Ratings
 - Uncertainty Theory Springer Uncertainty Research and Bestseller Lists
5. Accessing Uncertainty Theory Springer Uncertainty Research Free and Paid eBooks
 - Uncertainty Theory Springer Uncertainty Research Public Domain eBooks
 - Uncertainty Theory Springer Uncertainty Research eBook Subscription Services
 - Uncertainty Theory Springer Uncertainty Research Budget-Friendly Options

6. Navigating Uncertainty Theory Springer Uncertainty Research eBook Formats
 - ePub, PDF, MOBI, and More
 - Uncertainty Theory Springer Uncertainty Research Compatibility with Devices
 - Uncertainty Theory Springer Uncertainty Research Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Uncertainty Theory Springer Uncertainty Research
 - Highlighting and Note-Taking Uncertainty Theory Springer Uncertainty Research
 - Interactive Elements Uncertainty Theory Springer Uncertainty Research
8. Staying Engaged with Uncertainty Theory Springer Uncertainty Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Uncertainty Theory Springer Uncertainty Research
9. Balancing eBooks and Physical Books Uncertainty Theory Springer Uncertainty Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Uncertainty Theory Springer Uncertainty Research
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Uncertainty Theory Springer Uncertainty Research
 - Setting Reading Goals Uncertainty Theory Springer Uncertainty Research
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Uncertainty Theory Springer Uncertainty Research
 - Fact-Checking eBook Content of Uncertainty Theory Springer Uncertainty Research
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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