

Springer Uncertainty Research

Baoding Liu

# Uncertainty Theory

*Fourth Edition*



Springer

# Uncertainty Theory Springer Uncertainty Research

**Markus Knauff, Wolfgang Spohn**



## **Uncertainty Theory Springer Uncertainty Research:**

**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 *Modeling and Applications in Operations Research* Jyotiranjan Nayak, Shreekant Varshney, Chandra Shekhar, 2023-11-29 The text envisages novel optimization methods that significantly impact real life problems starting from inventory control to economic decision making It discusses topics such as inventory control queueing models timetable scheduling fuzzy optimization and the Knapsack problem The book's content encompasses the following key aspects Presents a new model based on an unreliable server wherein the convergence analysis is done using nature inspired algorithms Discusses the optimization techniques used in transportation problems timetable problems and optimal dynamic pricing in inventory control Highlights single and multi objective optimization problems using pentagonal fuzzy numbers Illustrates profit maximization inventory model for non instantaneous deteriorating items with imprecise costs Showcases nature inspired algorithms such as particle swarm optimization genetic algorithm bat algorithm and cuckoo search algorithm The text covers multi disciplinary real time problems such as fuzzy optimization of transportation problems inventory control with dynamic pricing timetable problem with ant colony optimization knapsack problem queueing modeling using the nature inspired algorithm and multi objective fuzzy linear programming It showcases a comparative analysis for studying various combinations of system design parameters and default cost elements It will serve as an ideal reference text for graduate students and academic researchers in the fields of industrial engineering manufacturing engineering production engineering mechanical engineering and mathematics 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

**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

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

*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 intuitionistic fuzzy logic. In neutrosophic logic a proposition has a degree of truth  $T$ , a degree of indeterminacy  $I$  and a degree of falsity  $F$  where  $T, I, F$  are standard or non standard subsets of  $[0, 1]$ . Neutrosophic Probability is a generalization of the classical probability and imprecise probability. Neutrosophic Statistics is a generalization of the classical statistics. What distinguishes the neutrosophics from other fields is the which means neither nor which of course depends on can be indeterminacy neutrality tie game unknown contradiction ignorance imprecision etc.

Fuzzy Systems and Data Mining IV  
Antonio J. Tallón-Ballesteros, Kaicheng Li, 2018-11-15 Big Data Analytics is on the rise in the last years of the current decade. Data are overwhelming the computation capacity of high performance servers. Cloud, grid, edge and fog computing are a few examples of the current hype. Computational Intelligence offers two faces to deal with the development of models: on the one hand the crisp approach which considers for every variable an exact value and on the other hand the fuzzy focus which copes with values between two boundaries. This book presents 114 papers from the 4th International Conference on Fuzzy Systems and Data Mining FSDM 2018 held in Bangkok, Thailand from 16 to 19 November 2018. All papers were carefully reviewed by program committee members who took into consideration the breadth and depth of the research topics that fall within the scope of FSDM. The acceptance rate was 32.85%. Offering a state of the art overview of fuzzy systems and data mining the publication will be of interest to all those whose work involves data science.

*Quantum Calculus and Functional Analysis with Applications*  
Bipan Hazarika, Sanket Tikare, Mehmet Dik, Dimplekumar Chalishajar, 2025-11-21 Quantum Calculus and Functional Analysis with Applications presents advanced research on quantum calculus, functional analysis and their interdisciplinary applications. It focuses on solving complex challenges in areas such as quantum transport, carbon nanotubes, approximation theory, optimal control models and renewable natural resources by providing cutting edge developments in these specialised fields. Based on original research it offers new insights into topics such as neutrosophic normed spaces, probabilistic normed spaces, quantum sequence spaces and  $q$ -calculus applications in functional analysis for innovative applications across fields as diverse as energy, environmental science and bioengineering. This book discusses quantum calculus, fractional calculus, functional analysis, quantization of electromagnetic fields, Caputo-Fabrizio fractional differential equations,  $q$ -statistical convergence and quantum matrix operators. Explores quantum calculus and fractional calculus applied to quantum functional calculus, biofuels, environmental pollution and optimal control analysis. Highlights the role of

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

**Research Methods: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2015-01-31 Across a variety of disciplines data and statistics form the backbone of knowledge To ensure the reliability and validity of data appropriate measures must be taken in conducting studies and reporting findings Research Methods Concepts Methodologies Tools and Applications compiles chapters on key considerations in the management development and distribution of data With its focus on both fundamental concepts and advanced topics this multi volume reference work will be a valuable addition to researchers scholars and students of science mathematics and engineering

*Artificial Intelligence and Smart Agriculture Applications* Utku Kose, V.B. Surya Prasath, M. Rubaiyat Hossain Mondal, Prajoy Podder, Subrato Bharati, 2022-09-07 An essential resource work for understanding how to design and develop smart applications for present and future problems of the field of agriculture Dr Deepak Gupta Maharaja Agrasen Institute of Technology Delhi India As a result of the advances in Artificial Intelligence AI many aspects of daily life have been transformed by smart digital technology Advanced intelligent algorithms can provide powerful solutions to real world problems Smart applications have become commonplace All areas of life are being changed by smart tools developed to deal with complex issues challenging both humanity and the earth Artificial Intelligence and Smart Agriculture Applications presents the latest smart agriculture applications developed across the globe It covers a broad array of solutions using data science and AI to attack problems facing agriculture worldwide Features Application of drones and sensors in advanced farming A cloud computing model for implementing smart agriculture Conversational AI for farmer s advisory communications Intelligent fuzzy logic to predict global warming s effect on agriculture Machine learning algorithms for mapping soil macronutrient elements variability A smart IoT framework for soil fertility enhancement AI applications in pest management A model using Python for predicting rainfall The book examines not only present solutions but also potential future outcomes It looks at the role of AI based algorithms and the almost infinite combinations of variables for agricultural applications Researchers public and private sector representatives agriculture scientists and students can use this book to develop sustainable and solutions for smart agriculture This book s findings are especially important as the planet is facing unprecedented environmental challenges from over farming and climate change due to global warming

**Cycle Index of Uncertain Random Graph** Lin Chen, Jin Peng, Congjun Rao, Isnaini Rosyida, With the increasing of the complexity of a system there is a variety of indeterminacy in the practical applications of graph theory We focus on uncertain

random graph in which some edges exist with degrees in probability measure and others exist with degrees in uncertain measure In this paper the chance theory is applied to construct the cycle index of an uncertain random graph Then a method to calculate the cycle index of an uncertain random graph is presented We also discuss some properties of the cycle index

**International Symposium on Fuzzy Systems, Knowledge Discovery and Natural Computation (FSKD 2014)** Defu Zhang, Xiamen University, China, 2014-09-02 ICNC FSKD is a premier international forum for scientists and researchers to present the state of the art of data mining and intelligent methods inspired from nature particularly biological linguistic and physical systems with applications to computers circuits systems control communications and more This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging problems

**The Handbook of Rationality** Markus Knauff, Wolfgang Spohn, 2021-12-14 The first reference on rationality that integrates accounts from psychology and philosophy covering descriptive and normative theories from both disciplines Both analytic philosophy and cognitive psychology have made dramatic advances in understanding rationality but there has been little interaction between the disciplines This volume offers the first integrated overview of the state of the art in the psychology and philosophy of rationality Written by leading experts from both disciplines The Handbook of Rationality covers the main normative and descriptive theories of rationality how people ought to think how they actually think and why we often deviate from what we can call rational It also offers insights from other fields such as artificial intelligence economics the social sciences and cognitive neuroscience The Handbook proposes a novel classification system for researchers in human rationality and it creates new connections between rationality research in philosophy psychology and other disciplines Following the basic distinction between theoretical and practical rationality the book first considers the theoretical side including normative and descriptive theories of logical probabilistic causal and defeasible reasoning It then turns to the practical side discussing topics such as decision making bounded rationality game theory deontic and legal reasoning and the relation between rationality and morality Finally it covers topics that arise in both theoretical and practical rationality including visual and spatial thinking scientific rationality how children learn to reason rationally and the connection between intelligence and rationality

**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

**Nursing Theorists and Their Work** Martha Raile Alligood, PhD, RN, ANEF, 2013-09-24 The most comprehensive of its kind Nursing Theorists and Their Work 8th Edition provides an in depth look at 39 theorists of historical international and significant importance Each chapter features a clear consistent presentation of a key nursing philosophy or theory Case studies critical thinking activities and in depth objective critiques of nursing theories help bridge the gap between theory and application Critical Thinking Activities at the end of

each theorist chapter help you to process the theory presented and apply it to personal and hypothetical practice situations A case study at the end of each theorist chapter puts the theory into a larger perspective demonstrating how it can be applied to practice A Brief Summary in each theorist chapter helps you review for tests and confirm your comprehension A Major Concepts Definitions box included in each theorist chapter outlines the theory's most significant ideas and clarifies content specific vocabulary Each theorist chapter is written by a scholar specializing in that particular theorist's work often having worked closely with the theorists to provide the most accurate and complete information possible Beginning chapters provide a strong foundation on the history and philosophy of science logical reasoning and the theory development process Diagrams for theories help you visualize and better understand inherently abstract concepts Pictures of theorists as well as a listing of contact information for each individual enables you to contact the source of information directly Theorist chapters have been reviewed and edited by the theorist validating the accounts set forth in the text for currency and accuracy An extensive bibliography at the conclusion of each theorist chapter outlines numerous primary and secondary sources of information ideal for both undergraduate and graduate research projects NEW Quotes from the theorist make each complex theory more memorable NEW Chapter on Afaf Meleis profiles a theorist who has shaped theoretical development in nursing and explores her transition theory NEW Need to Know Information is highlighted to streamline long complex passages and help you review key concepts NEW Points for Further Study at the end of each chapter direct you to assets available for additional information

**Uncertain Computation-based Decision Theory** Rafik Aziz Aliev, 2017-12-06 Uncertain computation is a system of computation and reasoning in which the objects of computation are not values of variables but restrictions on values of variables This compendium includes uncertain computation examples based on interval arithmetic probabilistic arithmetic fuzzy arithmetic Z number arithmetic and arithmetic with geometric primitives The principal problem with the existing decision theories is that they do not have capabilities to deal with such environment Up to now no books where decision theories based on all generalizations level of information are considered Thus this self containing volume intends to overcome this gap between real world settings decisions and their formal analysis

**Handbook of Game Theory with Economic Applications** R.J. Aumann, S. Hart, 1992 This is the second of three volumes surveying the state of the art in Game Theory and its applications to many and varied fields in particular to economics The chapters in the present volume are contributed by outstanding authorities and provide comprehensive coverage and precise statements of the main results in each area The applications include empirical evidence The following topics are covered communication and correlated equilibria coalitional games and coalition structures utility and subjective probability common knowledge bargaining zero sum games differential games and applications of game theory to signalling moral hazard search evolutionary biology international relations voting procedures social choice public economics politics and cost allocation This handbook will be of interest to scholars in economics political science psychology mathematics and biology For more information on the

Handbooks in Economics series please see our home page on <http://www.elsevier.nl/locate/hes>

*Unconventional Methods for Geoscience, Shale Gas and Petroleum in the 21st Century* Junzo Watada, Shing Chiang Tan, Pei-Chun Lin, Hitoshi Yano, Yoshiyuki Yabuuchi, Eswaran Padmanabhan, 2023-09-15 Since the turn of the century geology has advanced dramatically with materials derived from extra terrestrial sources meaning that it now encompasses cosmology and new technologies providing ever more sophisticated possibilities for the conducting of research This book *Unconventional Methods for Geoscience Shale Gas and Petroleum in the 21st Century* aims to provide research directions for geology in the 21st century As Eric Hobsbawm wrote it is difficult to write the history of one's own days and selecting influential methods was no easy task but an attempt has been made to include the most influential papers that represent the smart geology of the first few decades of the 21st century The book presents 22 papers the first serves as an introduction to biology which is now expanding into the science of the cosmos following the discovery of previously missing information and the remaining 21 papers are divided into 3 sections entitled Modelling Simulation and Optimization The importance of theoretical approaches from physics mathematics and statistics underlying meta heuristic methods knowledge and approaches is acknowledged and there is a chapter dedicated to deep learning The book contributes to the exploration of various possible solutions to challenging problems in both the Earth's geology and that of the cosmos and will be of interest to all those working in the field

**Multidisciplinary Approaches to Theory in Medicine** Ray Paton, Laura A. McNamara, 2006-01-06 This volume will be a collection of chapters from authors with wide experience in their research field The purpose is to produce a coherent book that reflects the common theme of theory in medical thinking and multidisciplinary research practice In this context theory relates to frameworks of concepts facts models etc that help to inform practitioners clinicians scientists and engineers both within their own fields and as they seek to share dialogue with colleagues from other fields Multidisciplinary Approaches to Theory in Medicine will therefore be integrative across a broad spectrum of fields within medicine To achieve this the chapters will be associated with others in a number of meaningful ways Each chapter will share a number of points of contact that will include at least two of the following Similar biomedical area e.g. immunity neuroscience endocrinology pathology oncology haematology Similar multidisciplinary theoretical contexts e.g. modelling analysis description visualization complex systems Similar multidisciplinary medical issues and questions e.g. clinical practice decision making informatics Uniquely explores role of interdisciplinary exchange in the development and expansion of medical theory Timely and insightful essays on the growth and development of medical theories from some of the world's top clinicians and medical researchers including Werner Arber Frank Vertosick and David Weatherall Assembles diverse perspectives on medicine and physiology from biology statistics ethics computer science philosophy history Uniquely illuminates the social and historical processes through which theoretical research translates into clinical practice Reveals the growing role of technology especially computational modelling in changing the nature of Western medicine

## The Enigmatic Realm of **Uncertainty Theory Springer Uncertainty Research**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Uncertainty Theory Springer Uncertainty Research** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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