

Handbook in Fuzziness and Soft Computing

Theory and Practice of Uncertain Programming

Yongqiang Chen

 Springer

Theory And Practice Of Uncertain Programming

Şefika Şule Erçetin



Theory And Practice Of Uncertain Programming:

Theory and Practice of Uncertain Programming Baoding Liu, 2013-04-17 Real life decisions are usually made in the state of uncertainty randomness fuzziness roughness etc How do we model optimization problems in uncertain environments How do we solve these models In order to answer these questions this book provides a self contained comprehensive and up to date presentation of uncertain programming theory It includes numerous modeling ideas hybrid intelligent algorithms and various applications in transportation problem inventory system facility location allocation capital budgeting topological optimization vehicle routing problem redundancy optimization and scheduling Researchers practitioners and students in operations research management science information science system science and engineering will find this work a stimulating and useful reference

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

Uncertain Renewal Processes Kai Yao, 2019-07-31 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

Uncertain Programming Baoding Liu, 1999 An up to date authoritative comprehensive look at optimization theory in uncertain environments Real life management decisions such as buy sell decisions in the stock market are almost always made in uncertain environments Is it possible to make model decision problems to fit these circumstances Once constructed can these models be solved In **Uncertain Programming** Baoding Liu answers both of these questions in the affirmative and goes on to lay a solid foundation for optimization in generally uncertain environments **Uncertain Programming** describes the basic concepts of mathematical

programming provides a genetic algorithm for optimization problems and introduces the techniques of stochastic and fuzzy simulation After examining some basic results of expected value models the book moves on to explore chance constrained programming with stochastic parameters and illustrate applications of chance constrained programming models Dr Liu discusses dependent chance programming in stochastic environments and extends both chance constrained and dependent chance programming from stochastic to fuzzy environments He then constructs a theoretical framework for fuzzy programming with fuzzy rather than crisp decisions This remarkable and revolutionary book Lays a foundation for optimization theory in uncertain environments Provides a unifying principle for dealing with stochastic and fuzzy programming Incorporates the most recent developments in the field Emphasizes modeling ideas evolutionary computation and applications of uncertain programming Uncertain Programming is a reliable authoritative and eye opening guide for researchers and engineers in operations research management science business management information and systems science and computer science *Uncertain Data Envelopment Analysis* Meilin Wen,2014-07-24 This book is intended to present the milestones in the progression of uncertain Data envelopment analysis DEA Chapter 1 gives some basic introduction to uncertain theories including probability theory credibility theory uncertainty theory and chance theory Chapter 2 presents a comprehensive review and discussion of basic DEA models The stochastic DEA is introduced in Chapter 3 in which the inputs and outputs are assumed to be random variables To obtain the probability distribution of a random variable a lot of samples are needed to apply the statistics inference approach Chapter 4 and 5 provide two uncertain DEA methods to evaluate the DMUs with limited or insufficient statistical data named fuzzy DEA and uncertain DEA In order to evaluate the DMUs in which uncertainty and randomness appear simultaneously the hybrid DEA based on chance theory is presented in Chapter 6 **Uncertainty and Imprecision in Decision Making and Decision Support - New Advances, Challenges, and Perspectives** Krassimir T. Atanassov,Vassia Atanassova,Janusz Kacprzyk,Andrzej Kałuszko,Maciej Krawczak,Jan W. Owsiniński,Sotir S. Sotirov,Evdokia Sotirova,Eulalia Szmidt,Sławomir Zadrozny,2023-10-20 This volume is composed of selected papers from two conferences held in Warsaw Poland on October 13 15 2022 the BOS SOR 2022 National Conference on Operational and Systems Research one of premiere conferences in the field of operational and systems research and the Twentieth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets IWIFSGN 2022 one of premiere conferences on fuzzy logic notably on extensions of the traditional fuzzy sets also comprising a considerable part on the Generalized Nets GNs A joint publication of selected papers from the two conferences follows a long tradition of such a joint organization and from a substantial point of view combines systems modeling systems analysis broadly perceived operational research notably optimization decision making and decision support with various aspects of uncertain and imprecise information and their related tools and techniques Approximation Theory, Sequence Spaces and Applications S. A. Mohiuddine,Bipan Hazarika,Hemant Kumar Nashine,2022-12-07 This book publishes original research chapters on the

theory of approximation by positive linear operators as well as theory of sequence spaces and illustrates their applications. Chapters are original and contributed by active researchers in the field of approximation theory and sequence spaces. Each chapter describes the problem of current importance and summarizes ways of their solution and possible applications which improve the current understanding pertaining to sequence spaces and approximation theory. The presentation of the articles is clear and self-contained throughout the book.

Urban Governance Jiuping Xu, Yi Lu, Asaf Hajiyevev, Zongmin Li, 2025-06-27

This book offers a comprehensive exploration of the latest advancements in sustainable and resilient supply chain management. The chapters in this volume present a diverse range of topics including innovative strategies for optimizing sustainable food supply chains through data envelopment analysis, dynamic multi-modal perspectives on global supply chain network configuration, and robust data-driven optimization techniques for designing sustainable cold supply chains for livestock and perishable goods. Other chapters delve into key areas such as optimal pricing and production lot size strategies for sustainable inventory models, carbon-sensitive transport solutions for deteriorating supply chains, and trade credit policies in growing product supply chains. Additionally, the book addresses the complexities of inventory management, purchasing and cutting policies for imperfect and perishable raw materials, the influence of supply chain finance, and trade digitization on financial stability and the development of heuristic master planning algorithms that prioritize fairness and flexibility. Further studies examine adaptive product changeover policies, a PDCA-based approach to evaluating green supply chain performance, and robust multi-criteria decision analysis techniques for selecting transportation service providers in the face of uncertainty. By offering insights into both theoretical and practical aspects, this book provides a valuable resource for researchers, practitioners, and policymakers looking to navigate the evolving landscape of sustainable supply chains. This book will be valuable to students, researchers, and policymakers in the fields of supply chain management, sustainable logistics, and operations research. The chapters in this book were originally published in *International Journal of Management Science and Engineering Management*.

Optimization of Integrated Supply Chain Planning under Multiple Uncertainty Juping Shao, Yanan Sun, Bernd Noche, 2015-05-27

The subject of this book is supply chain logistics planning optimization under multiple uncertainties, the key issue in supply chain management. Focusing on the strategic alliance three-level supply chain, the model of supply chain logistics planning was established in terms of the market prices and the market requirements as random variables of manufactured goods. With random expected value programming theory and the hybrid intelligence algorithm, a solution model was designed. Aiming at the decentralized control supply chain in which the nodes were unlimited expansion, the chance-constrained stochastic programming model was created in order to obtain optimal decision making at a certain confidence level. In addition, the hybrid intelligence algorithm model was designed to solve the problem of supply chain logistics planning with the prices of the raw materials, supply market of the upstream enterprises, and the prices of market demand for products of the downstream enterprises as random variables in the supply chain unit. Aimed at the three

stage mixed control supply chain a logistics planning model was designed using fuzzy random programming theory with customer demand as fuzzy random variables and a hybrid intelligence algorithm solution was created The research has significance both in theory and practice Its theoretical significance is that the research can complement and perfect existing supply chain planning in terms of quantification Its practical significance is that the results will guide companies in supply chain logistics planning in the uncertain environment

Fuzzy Mathematics: Approximation Theory George A.

Anastassiou,2010-03-17 This monograph is the r st in Fuzzy Approximation Theory It contains mostly the author s research work on fuzziness of the last ten years and relies a lot on 10 32 and it is a natural outgrowth of them It belongs to the broader area of Fuzzy Mathematics Chapters are self contained and several advanced courses can be taught out of this book We provide lots of applications but always within the framework of Fuzzy Mathematics In each chapter is given background and motivations A c plete list of references is provided at the end The topics covered are very diverse In Chapter 1 we give an extensive basic background on Fuzziness and Fuzzy Real Analysis as well a complete description of the book In the following Chapters 2 3 we cover in deep Fuzzy Di erentiation and Integ tion Theory e g we present Fuzzy Taylor Formulae It follows Chapter 4 on Fuzzy Ostrowski Inequalities Then in Chapters 5 6 we present results on classical algebraic and trigonometric polynomial Fuzzy Approximation

Computational Intelligence

De-Shuang Huang,George William Irwin,2006-08-04 This

is the proceedings of the International Conference on Intelligent Computing ICIC 2006 Kunming China August 2006 The book presents 165 revised full papers carefully chosen and reviewed organized in topical sections on fuzzy systems fuzzy neuro evolutionary hybrids supervised unsupervised and reinforcement learning intelligent agent and Web applications intelligent fault diagnosis natural language processing and expert systems natural language human machine interface using artificial neural networks and intelligent financial engineering

Intelligent Soft Computation and Evolving Data

Mining: Integrating Advanced Technologies Wang, Leon Shyue-Liang,Hong, Tzung-Pei,2010-03-31 This book provides a reference to researchers practitioners and students in both soft computing and data mining communities for generating creative ideas of securing and managing data mining Provided by publisher

Genetic and Evolutionary Computing Hui

Sun,Chin-Yu Yang,Chun-Wei Lin,Jeng-Shyang Pan,Vaclav Snasel,Ajith Abraham,2014-09-30 This volume of Advances in Intelligent Systems and Computing contains accepted papers presented at ICGEC 2014 the 8th International Conference on Genetic and Evolutionary Computing The conference this year was technically co sponsored by Nanchang Institute of Technology in China Kaohsiung University of Applied Science in Taiwan and VSB Technical University of Ostrava ICGEC 2014 is held from 18 20 October 2014 in Nanchang China Nanchang is one of is the capital of Jiangxi Province in southeastern China located in the north central portion of the province As it is bounded on the west by the Jiuling Mountains and on the east by Poyang Lake it is famous for its scenery rich history and cultural sites Because of its central location relative to the Yangtze and Pearl River Delta regions it is a major railroad hub in Southern China The conference is intended

as an international forum for the researchers and professionals in all areas of genetic and evolutionary computing *Drug Discovery and Telemedicine* Saurav Mallik,Zubair Rahaman,Soumita Seth,Anjan Bandyopadhyay,Sujata Swain,Somenath Chakraborty,2025-09-22 Our proposed book emerges in response to the critical need for an interdisciplinary resource that encapsulates the burgeoning role of artificial intelligence AI in reshaping drug discovery and telemedicine As these sectors witness transformative changes driven by AI technologies there s a pressing demand for a comprehensive guide that navigates through these advancements offering insights methodologies and practical applications to professionals at the forefront of healthcare and pharmaceutical research At its core the book delves into the intricate ways in which AI and machine learning algorithms are being harnessed to streamline the drug development process from initial discovery through to clinical trials and how these technologies are concurrently revolutionizing the delivery of healthcare services via telemedicine Specific focus areas include the application of deep learning in identifying novel drug candidates AI driven predictive models for pharmacokinetics and pharmacodynamics automation in laboratory research and the integration of AI in diagnostic processes personalized medicine and patient monitoring systems Each chapter not only explores current state of the art methodologies and case studies but also critically examines challenges such as data privacy ethical considerations and the need for robust interpretable models that can be trusted by healthcare professionals and patients alike Furthermore the book places a strong emphasis on the synergistic potential of combining AI with telemedicine illustrating how these technologies can expand access to healthcare improve the accuracy of remote diagnoses and enable continuous data driven patient care By providing a panoramic view of current trends technological innovations and future directions the book aims to serve as a pivotal reference for scientists researchers clinicians and policymakers involved in drug discovery and healthcare delivery In conclusion this book stands as an essential compendium for specialists seeking to navigate the complexities and harness the opportunities presented by AI in the pharmaceutical and healthcare industries It offers a critical in depth exploration of the transformative impact of AI technologies underscoring their relevance and potential to dramatically enhance drug discovery and telemedicine practices This publication not only equips its target audience with the knowledge to lead innovation in their fields but also engages with the broader ethical social and practical implications of AI making it an invaluable resource for advancing towards more effective efficient and accessible healthcare solutions The book is significant for several reasons Interdisciplinary Appeal It serves as a critical resource for professionals and researchers across the fields of computer science pharmaceutical sciences and healthcare facilitating a deeper understanding of AI s potential and fostering interdisciplinary collaborations Innovation in Drug Discovery By highlighting novel AI methodologies in drug discovery the book offers insights into how these technologies can shorten the development timelines reduce costs and increase the success rates of new therapies which is crucial for addressing unmet medical needs Revolutionizing Telemedicine The detailed discussion on AI s role in telemedicine illustrates how these advancements can enhance access to

healthcare improve the quality of care and make healthcare systems more efficient especially in remote and underserved areas Ethical and Regulatory Considerations It likely addresses the ethical privacy and regulatory challenges associated with implementing AI in healthcare offering guidelines for navigating these complexities while maximizing patient benefits Future Directions By exploring current trends and future possibilities the book not only serves as a repository of current knowledge but also as a beacon for future research and development efforts in these rapidly evolving fields

Chaos, Complexity and Leadership 2016 Şefika Şule Erçetin, 2018-03-21 This book covers the proceedings from the 2016 International Symposium on Chaos Complexity and Leadership and reflects current research results of chaos and complexity studies and their applications in various fields Included are research papers in the fields of applied nonlinear methods modeling of data and simulations as well as theoretical achievements of chaos and complex systems Also discussed are leadership and management applications of chaos and complexity theory

Fuzzy Portfolio Optimization Pankaj Gupta, Mukesh Kumar Mehlawat, Masahiro Inuiguchi, Suresh Chandra, 2014-03-17 This monograph presents a comprehensive study of portfolio optimization an important area of quantitative finance Considering that the information available in financial markets is incomplete and that the markets are affected by vagueness and ambiguity the monograph deals with fuzzy portfolio optimization models At first the book makes the reader familiar with basic concepts including the classical mean variance portfolio analysis Then it introduces advanced optimization techniques and applies them for the development of various multi criteria portfolio optimization models in an uncertain environment The models are developed considering both the financial and non financial criteria of investment decision making and the inputs from the investment experts The utility of these models in practice is then demonstrated using numerical illustrations based on real world data which were collected from one of the premier stock exchanges in India The book addresses both academics and professionals pursuing advanced research and or engaged in practical issues in the rapidly evolving field of portfolio optimization

Soft Computing Pradip Debnath, Binod Chandra Tripathy, 2024-09-30 This book examines the latest developments in the area of soft computing with engineering applications It explores topics such as fuzzy sets intuitionistic fuzzy sets unmanned aerial vehicles soft sets neutrosophic sets fractional calculus big data analytics and the mathematical foundations of convolutional neural network CNNs Soft Computing Engineering Applications offers readers a comprehensive and in depth understanding of various cutting edge technologies that are transforming industries worldwide The book explores soft computing techniques in a very systematic manner It elucidates the concepts theories and applications of fuzzy sets enabling readers to grasp the fundamentals and explore their applications in various fields It provides new insight into unmanned aerial vehicle applications to fuzzy soft set based decision making It then discusses new fixed point results in orthogonal neutrosophic generalized metric spaces and explores statistical convergence of triple sequences in a credibility space The authors then provide readers with a solid grasp of the mathematical underpinnings of CNNs enabling them to design train and optimize

neural networks for image recognition object detection and other computer vision tasks The authors also present new studies in fractional calculus and explores advanced visualization algorithms and techniques for big data analytics Soft Computing will be useful for beginners and advanced researchers in engineering applied sciences and healthcare professionals working in soft computing applications

Nature-Inspired Computing and Optimization Srikanta Patnaik,Xin-She Yang,Kazumi Nakamatsu,2017-03-07 The book provides readers with a snapshot of the state of the art in the field of nature inspired computing and its application in optimization The approach is mainly practice oriented each bio inspired technique or algorithm is introduced together with one of its possible applications Applications cover a wide range of real world optimization problems from feature selection and image enhancement to scheduling and dynamic resource management from wireless sensor networks and wiring network diagnosis to sports training planning and gene expression from topology control and morphological filters to nutritional meal design and antenna array design There are a few theoretical chapters comparing different existing techniques exploring the advantages of nature inspired computing over other methods and investigating the mixing time of genetic algorithms The book also introduces a wide range of algorithms including the ant colony optimization the bat algorithm genetic algorithms the collision based optimization algorithm the flower pollination algorithm multi agent systems and particle swarm optimization This timely book is intended as a practice oriented reference guide for students researchers and professionals

Fuzzy Information and Engineering Volume 2 Bingyuan Cao,Tai-Fu Li,Cheng-Yi Zhang,2009-10-14 This book is the proceedings of the Third International Conference on Fuzzy Information and Engineering ICFIE 2009 held in the famous mountain city Chongqing in Southwestern China from September 26 29 2009 Only high quality papers are included The ICFIE 2009 built on the success of previous conferences the ICFIE 2007 Guangzhou China is a major symposium for scientists engineers and practitioners in the world to present their updated results ideas developments and applications in all areas of fuzzy information and engineering It aims to strengthen relations between industry research laboratories and universities and to create a primary symposium for world scientists in fuzzy fields as follows Fuzzy Information Fuzzy Sets and Systems Soft Computing Fuzzy Engineering Fuzzy Operation Research and Management Artificial Intelligence Fuzzy Mathematics and Systems in Applications etc

Knowledge Engineering and Management Yinglin Wang,Tianrui Li,2011-11-25 Proceedings of the Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISKE 2011 held December 15 17 in Shanghai China This proceedings doesn t only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering but also present new methodologies and practices in intelligent computing paradigms The book introduces the current scientific and technical advances in the fields of artificial intelligence machine learning pattern recognition data mining information retrieval knowledge based systems knowledge representation and reasoning multi agent systems natural language processing etc Furthermore new computing methodologies are presented including cloud

computing service computing and pervasive computing with traditional intelligent methods The proceedings will be beneficial for both researchers and practitioners who want to utilize intelligent methods in their specific research fields Dr Yinglin Wang is a professor at the Department of Computer Science and Engineering Shanghai Jiao Tong University China Dr Tianrui Li is a professor at the School of Information Science and Technology Southwest Jiaotong University China

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