

Handbook in Fuzziness and Soft Computing

Theory and Practice of Uncertain Programming

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 Springer

Theory And Practice Of Uncertain Programming

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Li**

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

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

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 *Proceedings*, 2004 **INFOR.**, 2005 **OR/MS Today**, 2002 **Intelligent Decision Support Systems in Agent-mediated Environments** Gloria E. Phillips-Wren, L. C. Jain, 2005 Research has shown that harassed decision makers in decision support technologies for real time and uncertain decision problems often ignore crucial information use inefficient strategies and generate fewer alternatives Examples of such problems are medical emergencies traffic flow and military applications Researchers are limited by a narrow understanding of the most effectual methods to support decision making in real time and stressful situations Intelligent software agents offer one approach to operationalizing a decision making support system in these circumstances by providing an environment that can adapt to speed and change Agent technology has been used to aid and automate complex problem solving such as brokering in electronic commerce and financial services An agent is a software package that carries out tasks for others autonomously whether the others are human users business processes workflows or applications **Tsinghua Science and Technology**, 2003 **Interfaces**, 2003 Seeks to improve communication between managers and professionals in OR MS The Japanese Version of Project Cycle Management Saeko Nakabayashi, 2000 **Mathematical Reviews**, 2007 **Acta Cybernetica**, 1980 **American Book Publishing Record**, 2002 **Proceedings of International Conference on Systems Science and Engineering (ICSSE '88) : 25-28 July 1988, Beijing, China** Weimin Cheng, 1989 Some 170 papers of the July 1988 meeting survey advances in the main areas of systems science and engineering Areas covered include theoretical and methodical developments applications to population telecommunication transportation and water resource systems optimization multicriteria decision making game theory decision analysis management information and decision support systems Printed in China on acidic paper directly from authors typescripts many of which strain legibility Four papers are printed after the author index while not appearing in the table of contents Sloppy production for a 200 book No subject index Annotation copyrighted by Book News Inc Portland OR **Subject Guide to Books in Print**, 1991 *Management Science*, 1987 Issues for Feb 1965 Aug 1967 include

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