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Decision Making with Multiple Objectives

Proceedings, Cleveland, Ohio, 1984

Edited by Yacov Y. Haimes and Vira Chankong



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Decision Making With Multiple Objectives

Simon French



Decision Making With Multiple Objectives:

Decisions with Multiple Objectives Ralph L. Keeney, Howard Raiffa, 1993-07 This book describes how a confused decision maker who wishes to make a reasonable and responsible choice among alternatives can systematically probe their thoughts and feelings in order to make the critically important trade offs between incommensurable objectives

Multi-Objective Decision Making Diederik M. Roijers, Shimon Whiteson, 2017-04-20 Many real world decision problems have multiple objectives For example when choosing a medical treatment plan we want to maximize the efficacy of the treatment but also minimize the side effects These objectives typically conflict e g we can often increase the efficacy of the treatment but at the cost of more severe side effects In this book we outline how to deal with multiple objectives in decision theoretic planning and reinforcement learning algorithms To illustrate this we employ the popular problem classes of multi objective Markov decision processes MOMDPs and multi objective coordination graphs MO CoGs First we discuss different use cases for multi objective decision making and why they often necessitate explicitly multi objective algorithms We advocate a utility based approach to multi objective decision making i e that what constitutes an optimal solution to a multi objective decision problem should be derived from the available information about user utility We show how different assumptions about user utility and what types of policies are allowed lead to different solution concepts which we outline in a taxonomy of multi objective decision problems Second we show how to create new methods for multi objective decision making using existing single objective methods as a basis Focusing on planning we describe two ways to creating multi objective algorithms in the inner loop approach the inner workings of a single objective method are adapted to work with multi objective solution concepts in the outer loop approach a wrapper is created around a single objective method that solves the multi objective problem as a series of single objective problems After discussing the creation of such methods for the planning setting we discuss how these approaches apply to the learning setting Next we discuss three promising application domains for multi objective decision making algorithms energy health and infrastructure and transportation Finally we conclude by outlining important open problems and promising future directions

Multiple Objective Decision Making - Methods and Applications S R Paidy, K Yoon, C -L Hwang, 1979-02-05

Fuzzy Multiple Objective Decision Making Young-Jou Lai, Ching-Lai Hwang, 2012-12-06 In the last 25 years the fuzzy set theory has been applied in many disciplines such as operations research management science control theory artificial intelligence expert system etc In this volume methods and applications of crisp fuzzy and possibilistic multiple objective decision making are first systematically and thoroughly reviewed and classified This state of the art survey provides readers with a capsule look into the existing methods and their characteristics and applicability to analysis of fuzzy and possibilistic programming problems To realize practical fuzzy modelling it presents solutions for real world problems including production manufacturing location logistics environment management banking finance personnel marketing accounting agriculture economics and data analysis This

book is a guided tour through the literature in the rapidly growing fields of operations research and decision making and includes the most up to date bibliographical listing of literature on the topic

Fuzzy-Like Multiple Objective Multistage Decision Making Jiuping Xu,Ziqiang Zeng,2014-02-07 Decision has inspired reflection of many thinkers since the ancient times With the rapid development of science and society appropriate dynamic decision making has been playing an increasingly important role in many areas of human activity including engineering management economy and others In most real world problems decision makers usually have to make decisions sequentially at different points in time and space at different levels for a component or a system while facing multiple and conflicting objectives and a hybrid uncertain environment where fuzziness and randomness co exist in a decision making process This leads to the development of fuzzy like multiple objective multistage decision making This book provides a thorough understanding of the concepts of dynamic optimization from a modern perspective and presents the state of the art methodology for modeling analyzing and solving the most typical multiple objective multistage decision making practical application problems under fuzzy like uncertainty including the dynamic machine allocation closed multiclass queueing networks optimization inventory management facilities planning and transportation assignment A number of real world engineering case studies are used to illustrate in detail the methodology With its emphasis on problem solving and applications this book is ideal for researchers practitioners engineers graduate students and upper level undergraduates in applied mathematics management science operations research information system civil engineering building construction and transportation optimization

Multiobjective Decision Making Vira Chankong,Yacov Y Haimes,2008-02-04 This first rate text explores the theory and methodology of systems engineering in evaluating alternative courses of action and associated decision making policies It treats criteria as multidimensional rather than scalar in the development of normative theories These contribute to a behavioral theory of decision making and provide guidance for exercising judgment An introductory discussion of the systemic approach to judgment and decision is followed by explorations of psychological value measurements utility classical decision analysis and vector optimization theory The second section chiefly deals with methods of assessing and evaluating alternatives including both noninteractive and interactive methods A taxonomy and a comparative evaluation of methods conclude the text

Fuzzy-Like Multiple Objective Decision Making Jiuping Xu,Xiaoyang Zhou,2011-01-15 Decision makers usually face multiple conflicting objectives and the complicated fuzzy like environments in the real world What are the fuzzy like environments How do we model the multiple objective decision making problems under fuzzy like environments How do you deal with these models In order to answer these questions this book provides an up to date methodology system for fuzzy like multiple objective decision making which includes modelling system model analysis system algorithm system and application system in structure optimization problem selection problem purchasing problem inventory problem logistics problem and so on Researchers practitioners and students in management science operations research information science system science

and engineering science will find this work a useful reference

Fuzzy Multiple Objective Decision Making

Gwo-Hshiung Tzeng, Jih-Jeng Huang, 2016-04-19 Multi objective programming MOP can simultaneously optimize multi objectives in mathematical programming models but the optimization of multi objectives triggers the issue of Pareto solutions and complicates the derived answers To address these problems researchers often incorporate the concepts of fuzzy sets and evolutionary algorithms into MOP models Focusing on the methodologies and applications of this field Fuzzy Multiple Objective Decision Making presents mathematical tools for complex decision making The first part of the book introduces the most popular methods used to calculate the solution of MOP in the field of multiple objective decision making MODM The authors describe multi objective evolutionary algorithms expand de novo programming to changeable spaces such as decision and objective spaces and cover network data envelopment analysis The second part focuses on various applications giving readers a practical in depth understanding of MODM A follow up to the authors Multiple Attribute Decision Making Methods and Applications this book guides practitioners in using MODM methods to make effective decisions It also extends students knowledge of the methods and provides researchers with the foundation to publish papers in operations research and management science journals

Decision-making with Multiple Objectives Stanley Zionts, Jyrki Wallenius, 1976

Multi-objective Decision Making Simon French, 1983

Decision Making with Multiple Objectives Yacov Y.

Haimes, Vira Chankong, 2012-03-29 The Sixth International Multiple Criteria Decision Making MCDM Conference is one of a biennial series that serve as a forum for exchange of the latest information and new developments in this rapidly growing field Participants are carefully chosen from among scholars and practitioners so that widely ranging perspectives and disciplines are represented this insures the dissemination of valuable new knowledge to those scholars policy makers and industrial analysts who will best utilize and share it both in developed and in third world countries The Sixth International MCDM Conference was held from June 4 to 8 1984 at Case Western Reserve University Cleveland Ohio The Conference program reflects the evolution of the field from infancy through adolescence to maturity as marked by the progression from single objective modeling and optimization to multiple objective decision making Because the theoreticians practitioners and students who attend these MCDM conferences necessarily have different needs and expectations the program now offers fewer monologues and more panels overview papers and tutorial sessions focusing on case studies and other practical experiences

Fuzzy-Like Multiple Objective Decision Making Jiuping Xu, Xiaoyang Zhou, 2011-08-26 Decision makers usually face multiple conflicting objectives and the complicated fuzzy like environments in the real world What are the fuzzy like environments How do we model the multiple objective decision making problems under fuzzy like environments How do you deal with these models In order to answer these questions this book provides an up to date methodology system for fuzzy like multiple objective decision making which includes modelling system model analysis system algorithm system and application system in structure optimization problem selection problem purchasing problem inventory problem logistics

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Multi-objective Group Decision Making Jie Lu, Da Ruan,2007 This book proposes a set of models to describe fuzzy multi objective decision making MODM fuzzy multi criteria decision making MCDM fuzzy group decision making GDM and fuzzy multi objective group decision making problems respectively It also gives a set of related methods including algorithms to solve these problems One distinguishing feature of this book is that it provides two decision support systems software for readers to apply these proposed methods A set of real world applications and some new directions in this area are then described to further instruct readers how to use these methods and software in their practice

Fuzzy Multiple Objective Decision Making Gwo-Hshiung Tzeng, Jih-Jeng Huang,2016-04-19 Multi objective programming MOP can simultaneously optimize multi objectives in mathematical programming models but the optimization of multi objectives triggers the issue of Pareto solutions and complicates the derived answers To address these problems researchers often incorporate the concepts of fuzzy sets and evolutionary algorithms into M

Multi-attribute Decision Making Via O.R.-based Expert Systems Ralph L. Keeney,1988

Random-Like Multiple Objective Decision Making Jiuping Xu, Liming Yao,2011-03-30

Rough Multiple Objective Decision Making Jiuping Xu, Zhimiao Tao,2011-07-28

Under intense scrutiny for the last few decades Multiple Objective Decision Making MODM has been useful for dealing with the multiple criteria decisions and planning problems associated with many important applications in fields including management science engineering design and transportation Rough set theory has also proved to be an effective mathematical tool to counter the vague description of objects in fields such as artificial intelligence expert systems civil engineering medical data analysis data mining pattern recognition and decision theory Rough Multiple Objective Decision Making is perhaps the first book to combine state of the art application of rough set theory rough approximation techniques and MODM It illustrates traditional techniques and some that employ simulation based intelligent algorithms to solve a wide range of realistic problems Application of rough theory can remedy two types of uncertainty randomness and fuzziness which present significant drawbacks to existing decision making methods so the authors illustrate the use of rough sets to approximate the feasible set and they explore use of rough intervals to demonstrate relative coefficients and parameters involved in bi level MODM The book reviews relevant literature and introduces models for both random and fuzzy rough

MODM applying proposed models and algorithms to problem solutions Given the broad range of uses for decision making the authors offer background and guidance for rough approximation to real world problems with case studies that focus on engineering applications including construction site layout planning water resource allocation and resource constrained project scheduling The text presents a general framework of rough MODM including basic theory models and algorithms as well as a proposed methodological system and discussion of future research **Decisions with Multiple Objectives** Ralph L. Keeney, Howard Raiffa, 1993 *Decision Making with Multiple Objectives* Yacov Y. Haimes, Vira Chankong, 1985

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