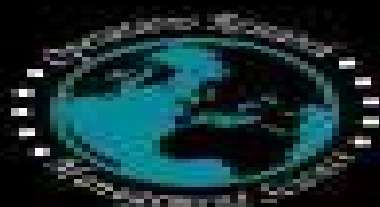


# INTELLIGENT STRATEGIES FOR META MULTIPLE CRITERIA DECISION MAKING

THOMAS HANNE



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# Intelligent Strategies For Meta Multiple Criteria Decision Making

**Christos Douligeris, Nineta  
Polemi, Athanasios Karantjias, Winfried  
Lamersdorf**

## **Intelligent Strategies For Meta Multiple Criteria Decision Making:**

**Intelligent Strategies for Meta Multiple Criteria Decision Making** Thomas Hanne, 2012-12-06 Multiple criteria decision making research has developed rapidly and has become a main area of research for dealing with complex decision problems which require the consideration of multiple objectives or criteria Over the past twenty years numerous multiple criterion decision methods have been developed which are able to solve such problems However the selection of an appropriate method to solve a particular decision problem is today's problem for a decision support researcher and decision maker Intelligent Strategies for Meta Multiple Criteria Decision Making deals centrally with the problem of the numerous MCDM methods that can be applied to a decision problem The book refers to this as a meta decision problem and it is this problem that the book analyzes The author provides two strategies to help the decision makers select and design an appropriate approach to a complex decision problem Either of these strategies can be designed into a decision support system itself One strategy is to use machine learning to design an MCDM method This is accomplished by applying intelligent techniques namely neural networks as a structure for approximating functions and evolutionary algorithms as universal learning methods The other strategy is based on solving the meta decision problem interactively by selecting or designing a method suitable to the specific problem for example the constructing of a method from building blocks This strategy leads to a concept of MCDM networks Examples of this approach for a decision support system explain the possibilities of applying the elaborated techniques and their mutual interplay The techniques outlined in the book can be used by researchers students and industry practitioners to better model and select appropriate methods for solving complex multi objective decision problems *Multiple Criteria Decision Analysis: State of the Art Surveys* Salvatore

Greco, 2006-01-20 Multiple Criteria Decision Analysis State of the Art Surveys provides survey articles and references of the seminal or state of the art research on MCDA The material covered ranges from the foundations of MCDA over various MCDA methodologies outranking methods multiattribute utility and value theories non classical approaches to multiobjective mathematical programming MCDA applications and software This vast amount of material is organized in 8 parts with a total of 25 chapters More than 2000 references are listed Soft Computing for Complex Multiple Criteria Decision Making

Ignacy Kaliszewski, 2006-06-07 This book concentrates on providing technical tools to make the user of Multiple Criteria Decision Making MCDM methodologies independent of bulky optimization computations These bulky computations have been a necessary but limiting characteristic of interactive MCDM methodologies and algorithms The book removes these limitations of MCDM problems by reducing a problem's computational complexity The result is a wider and more functional general framework for presenting teaching implementing and applying a wide range of MCDM methodologies

**Multicriteria Decision Aid and Artificial Intelligence** Michael Doumpos, Evangelos Grigoroudis, 2013-02-01 Presents recent advances in both models and systems for intelligent decision making Organisations often face complex decisions

requiring the assessment of large amounts of data In recent years Multicriteria Decision Aid MCDA and Artificial Intelligence AI techniques have been applied with considerable success to support decision making in a wide range of complex real world problems The integration of MCDA and AI provides new capabilities relating to the structuring of complex decision problems in static and distributed environments These include the handling of massive data sets the modelling of ill structured information the construction of advanced decision models and the development of efficient computational optimization algorithms for problem solving This book covers a rich set of topics including intelligent decision support technologies data mining models for decision making evidential reasoning evolutionary multiobjective optimization fuzzy modelling as well as applications in management and engineering Multicriteria Decision Aid and Artificial Intelligence Covers all of the recent advances in intelligent decision making Includes a presentation of hybrid models and algorithms for preference modelling and optimisation problems Provides illustrations of new intelligent technologies and architectures for decision making in static and distributed environments Explores the general topics on preference modelling and learning along with the coverage of the main techniques and methodologies and applications Is written by experts in the field This book provides an excellent reference tool for the increasing number of researchers and practitioners interested in the integration of MCDA and AI for the development of effective hybrid decision support methodologies and systems Academics and post graduate students in the fields of operational research artificial intelligence and management science or decision analysis will also find this book beneficial

**Evolutionary Multi-Criterion Optimization** Eckart Zitzler, Kalyanmoy Deb, Lothar Thiele, Carlos Coello Coello, David Corne, 2003-06-29 This book constitutes the refereed proceedings of the First International Conference on Multi Criterion Optimization EMO 2001 held in Zurich Switzerland in March 2001 The 45 revised full papers presented were carefully reviewed and selected from a total of 87 submissions Also included are two tutorial surveys and two invited papers The book is organized in topical sections on algorithm improvements performance assessment and comparison constraint handling and problem decomposition uncertainty and noise hybrid and alternative methods scheduling and applications of multi objective optimization in a variety of fields Multiple Criteria Optimization Xavier

Gandibleux, 2006-04-11 The generalized area of multiple criteria decision making MCDM can be defined as the body of methods and procedures by which the concern for multiple conflicting criteria can be formally incorporated into the analytical process MCDM consists mostly of two branches multiple criteria optimization and multi criteria decision analysis MCDA While MCDA is typically concerned with multiple criteria problems that have a small number of alternatives often in an environment of uncertainty location of an airport type of drug rehabilitation program multiple criteria optimization is typically directed at problems formulated within a mathematical programming framework but with a stack of objectives instead of just one river basin management engineering component design product distribution It is about the most modern treatment of multiple criteria optimization that this book is concerned I look at this book as a nicely organized and well

rounded presentation of what I view as new wave topics in multiple criteria optimization Looking back to the origins of MCDM most people agree that it was not until about the early 1970s that multiple criteria optimization coalesced as a field At this time and for about the following fifteen years the focus was on theories of multiple objective linear programming that subsume conventional single criterion linear programming algorithms for characterizing the efficient set theoretical vector maximum developments and interactive procedures

**Evolutionary Multi-Criterion Optimization** Carlos M. Fonseca, 2003-04-07 This book constitutes the refereed proceedings of the Second International Conference on Evolutionary Multi Criterion Optimization EMO 2003 held in Faro Portugal in April 2003 The 56 revised full papers presented were carefully reviewed and selected from a total of 100 submissions The papers are organized in topical sections on objective handling and problem decomposition algorithm improvements online adaptation problem construction performance analysis and comparison alternative methods implementation and applications

**Evaluation and Decision Models with Multiple Criteria** Denis Bouyssou, Thierry Marchant, Marc Pirlot, Alexis Tsoukias, Philippe Vincke, 2006-06-07 Formal decision and evaluation models are sets of explicit and well defined rules to collect assess and process information in order to be able to make recommendations in decision and or evaluation processes They are so widespread that almost no one can pretend not to have used or suffered the consequences of one of them Our earlier companion volume Evaluation and Decision Models heavily criticised formal models but also argued that they could be useful On the other hand Evaluation and Decision Models with Multiple Criteria is a guide aimed at helping the analyst to choose a model and use it consistently We propose a sound analysis of techniques and our presentation can be extended to most decision and evaluation models as a decision aiding methodology This volume is intended for the enlightened practitioner for anyone who uses decision or evaluation models for research or for applications and is willing to question his practice to have a deeper understanding of what he does

**Mass Customization** Thorsten Blecker, Gerhard Friedrich, 2006-07-31 This book defines the parameters of the emerging business strategy of mass customization covering the main categories in a systematic examination of manufacturing systems and mass customization supply chain management and mass customization and information systems and mass customization The book provides a conceptual framework for mass customization its tools its solutions and real world examples of successful implementations of the business strategy

**Patient Flow: Reducing Delay in Healthcare Delivery** Randolph Hall, 2006-10-11 Patient Flow Reducing Delay in Healthcare Delivery is dedicated to improving healthcare through reducing the delays experienced by patients One aspect of this goal is to improve the flow of patients so that they do not experience unnecessary waits as they flow through a healthcare system Another aspect is ensuring that services are closely synchronized with patterns of patient demand Still another aspect is ensuring that ancillary services such as housekeeping and transportation are fully coordinate with direct patient care It is the first book treatment to have reduction in patient delay as its sole focus and therefore provides the foundation by which hospitals can implement change Reflecting the highly

interdisciplinary and practitioner nature of this book the chapters have been written by doctors nurses industrial engineers system engineers and geographers and thus these perspectives provide the comprehensive view needed to address the problem of patient delay

**Perspectives in Modern Project Scheduling** Joanna Jozefowska, Jan Weglarz, 2006-12-11

Operations Research began with the mathematical scheduling of a massive project logistically supplying Europe with military equipment and goods during the WWII Today project scheduling research continues growing in a variety of its theoretical models in its magnitude and application As the world becomes more interrelated and complex the wider its research is applied to an increasing number of project scheduling problems Project Scheduling Surveying the State of the Art surveys the current state of the art in operations research with chapters written by the respective leading experts on each topic It covers the range of the key models in the field including deterministic probabilistic single and multi mode single and multi objective and a general model on discrete continuous resources Recent solution algorithms are systematical examined The book summarize sthe current developments and theoretical achievements in the field including project uncertainty and grid resource management

**Operations Research and Health Care** Margaret L. Brandeau, Francois Sainfort, William P. Pierskalla, 2006-04-04 In both rich and poor nations public resources for health care are inadequate to meet demand Policy makers and health care providers must determine how to provide the most effective health care to citizens using the limited resources that are available This chapter describes current and future challenges in the delivery of health care and outlines the role that operations research OR models can play in helping to solve those problems The chapter concludes with an overview of this book its intended audience the areas covered and a description of the subsequent chapters

**KEY WORDS** Health care delivery Health care planning HEALTH CARE DELIVERY PROBLEMS AND CHALLENGES 3 1 1 WORLDWIDE HEALTH THE PAST 50 YEARS Human health has improved significantly in the last 50 years In 1950 global life expectancy was 46 years 1 That figure rose to 61 years by 1980 and to 67 years by 1998 2 Much of these gains occurred in low and middle income countries and were due in large part to improved nutrition and sanitation medical innovations and improvements in public health infrastructure

*Foreign-Exchange-Rate Forecasting with Artificial Neural Networks* Lean Yu, Shouyang Wang, Kin Keung Lai, 2010-02-26 The foreign exchange market is one of the most complex dynamic markets with the characteristics of high volatility nonlinearity and irregularity Since the Bretton Woods System collapsed in 1970s the fluctuations in the foreign exchange market are more volatile than ever Furthermore some important factors such as economic growth trade development interest rates and inflation rates have significant impacts on the exchange rate fluctuation Meantime these characteristics also make it extremely difficult to predict foreign exchange rates Therefore exchange rates forecasting has become a very important and challenge research issue for both academic and ind trial communities In this monograph the authors try to apply artificial neural networks ANNs to exchange rates forecasting Selection of the ANN approach for change rates forecasting is because of ANNs unique features and powerful pattern

recognition capability Unlike most of the traditional model based forecasting techniques ANNs are a class of data driven self adaptive and nonlinear methods that do not require specific assumptions on the underlying data generating process These features are particularly appealing for practical forecasting situations where data are abundant or easily available even though the theoretical model or the underlying relationship is known Furthermore ANNs have been successfully applied to a wide range of forecasting problems in almost all areas of business industry and engineering In addition ANNs have been proved to be a universal functional approximator that can capture any type of complex relationships

*Vacation Queueing Models* Naishuo Tian,Zhe George Zhang,2006-10-11 This book discusses systematically the many variations of vacation policy The book discusses a variety of typical vacation model applications The presentation style is unique compared with the books published in the same field a theorem and proof format is used Also this is the first time G1 M 1 multi server vacation models both continuous and discrete and the optimization and control issues have been presented in book form

**Handbook of Production Scheduling** Jeffrey W. Herrmann,2006-08-18 Handbook of Production Scheduling concentrates on real world production scheduling in factories and industrial settings It includes industry case studies that use innovative techniques as well as academic research results that can be used to improve real world production scheduling Its purpose is to present scheduling principles advanced tools and examples of innovative scheduling systems to persons who could use this information to improve production scheduling in their own organization The intended audience includes production and plant managers industrial engineers operations research practitioners advanced undergraduate graduate students and faculty studying and doing research in operations research and industrial engineering

**Real-Time Management of Resource Allocation Systems** Spyros A. Reveliotis,2006-07-18 Real Time Management of Resource Allocation Systems focuses on the problem of managing the resource allocation taking place within the operational context of many contemporary technological applications including flexibly automated production systems automated railway and or monorail transportation systems electronic workflow management systems and business transaction supporting systems A distinct trait of all these applications is that they limit the role of the human element to remote high level supervision while placing the burden of the real time monitoring and coordination of the ongoing activity upon a computerized control system Hence any applicable control paradigm must address not only the issues of throughput maximization work in process inventory reduction and delay and cost minimization that have been the typical concerns for past studies on resource allocation but it must also guarantee the operational correctness and the behavioral consistency of the underlying automated system The resulting problem is rather novel for the developers of these systems since in the past many of its facets were left to the jurisdiction of the present human intelligence It is also complex due to the high levels of choice otherwise known as flexibility inherent in the operation of these environments

Generalized Concavity in Fuzzy Optimization and Decision Analysis Jaroslav Ramík,Milan Vlach,2012-12-06 Convexity of sets in linear spaces and concavity and convexity of functions lie at the root of beautiful

theoretical results that are at the same time extremely useful in the analysis and solution of optimization problems including problems of either single objective or multiple objectives. Not all of these results rely necessarily on convexity and concavity; some of the results can guarantee that each local optimum is also a global optimum, giving these methods broader application to a wider class of problems. Hence the focus of the first part of the book is concerned with several types of generalized convex sets and generalized concave functions. In addition to their applicability to nonconvex optimization, these convex sets and generalized concave functions are used in the book's second part where decision making and optimization problems under uncertainty are investigated. Uncertainty in the problem data often cannot be avoided when dealing with practical problems. Errors occur in real world data for a host of reasons. However, over the last thirty years, the fuzzy set approach has proved to be useful in these situations. It is this approach to optimization under uncertainty that is extensively used and studied in the second part of this book. Typically, the membership functions of fuzzy sets involved in such problems are neither concave nor convex. They are, however, often quasiconcave or concave in some generalized sense. This opens possibilities for application of results on generalized concavity to fuzzy optimization. Despite this obvious relation, applying the interface of these two areas has been limited to date. It is hoped that the combination of ideas and results from the field of generalized concavity on the one hand and fuzzy optimization on the other hand, outlined and discussed in *Generalized Concavity in Fuzzy Optimization and Decision Analysis*, will be of interest to both communities. Our aim is to broaden the classes of problems that the combination of these two areas can satisfactorily address and solve.

Handbook of Markov Decision Processes Eugene A. Feinberg, Adam Schwartz, 2012-12-06 Eugene A. Feinberg, Adam Schwartz This volume deals with the theory of Markov Decision Processes (MDPs) and their applications. Each chapter was written by a leading expert in the respective area. The papers cover major research areas and methodologies and discuss open questions and future research directions. The papers can be read independently with the basic notation and concepts of Section 1.2. Most chapters should be accessible by graduate or advanced undergraduate students in fields of operations research, electrical engineering, and computer science.

### 1 AN OVERVIEW OF MARKOV DECISION PROCESSES

The theory of Markov Decision Processes, also known under several other names including sequential stochastic optimization, discrete time stochastic control, and stochastic dynamic programming, studies sequential optimization of discrete time stochastic systems. The basic object is a discrete time stochastic system whose transition mechanism can be controlled over time. Each control policy defines the stochastic process and values of objective functions associated with this process. The goal is to select a good control policy. In real life decisions that humans and computers make on all levels, usually have two types of impacts: i) they cost or save time, money, or other resources, or they bring revenues, as well as ii) they have an impact on the future by influencing the dynamics. In many situations, decisions with the largest immediate profit may not be good in view of future events. MDPs model this paradigm and provide results on the structure and existence of good policies and on methods for their calculation.

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**Privacy-Aware e/m-Services** Christos Douligeris, Nineta Polemi, Athanasios Karantjias, Winfried Lamersdorf, 2013-04-20 This book constitutes the refereed conference proceedings of the 12th IFIP WG 6.11 Conference on e Business e Services and e Society I3E 2013 held in Athens Greece in April 2013. The 25 revised papers presented together with a keynote speech were carefully reviewed and selected from numerous submissions. They are organized in the following topical sections: trust and privacy; security; access control and legal requirements in cloud systems; protocols; regulation and social networking; adoption issues in e/m services; new services; adoption and ecological behavior; knowledge management and business processes and management policies and technologies in e/m services. Handbook of Marketing Decision Models Berend Wierenga, 2008-09-05 Marketing models is a core component of the marketing discipline. The recent developments in marketing models have been incredibly fast with information technology e.g. the Internet, online marketing, e-commerce and customer relationship management (CRM) creating radical changes in the way companies interact with their customers. This has created completely new breeds of marketing models but major progress has also taken place in existing types of marketing models. Handbook of Marketing Decision Models presents the state of the art in marketing decision models. The book deals with new modeling areas such as customer relationship management, customer value and online marketing as well as recent developments in other advertising, sales, promotions, sales management and competition. New developments in consumer decision models, models for return on marketing, marketing management support systems and in special techniques such as time series and neural nets.

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