

ENTROPY OPTIMIZATION AND MATHEMATICAL PROGRAMMING

Edited by

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Entropy Optimization And Mathematical Programming
International Series In Operations Research
Management Science

Wai-Ki Ching, Michael K. Ng



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Entropy Optimization and Mathematical Programming Shu-Cherng Fang, J.R. Rajasekera, H.S.J. Tsao, 2012-12-06

Entropy optimization is a useful combination of classical engineering theory entropy with mathematical optimization The resulting entropy optimization models have proved their usefulness with successful applications in areas such as image reconstruction pattern recognition statistical inference queuing theory spectral analysis statistical mechanics transportation planning urban and regional planning input output analysis portfolio investment information analysis and linear and nonlinear programming While entropy optimization has been used in different fields a good number of applicable solution methods have been loosely constructed without sufficient mathematical treatment A systematic presentation with proper mathematical treatment of this material is needed by practitioners and researchers alike in all application areas The purpose of this book is to meet this need Entropy Optimization and Mathematical Programming offers perspectives that meet the needs of diverse user communities so that the users can apply entropy optimization techniques with complete comfort and ease With this consideration the authors focus on the entropy optimization problems in finite dimensional Euclidean space such that only some basic familiarity with optimization is required of the reader Soft Computing for Complex Multiple Criteria Decision Making Ignacy Kaliszewski, 2006-06-07

Dapprima importa sapere di che cosa si tratta The first thing is to know what the talk is about Attributed to Vilfredo Pareto This book results from my continuous and deep interest in multiple criteria decision making MCDM Eleven years ago I wrote in my previous monograph This work results from my interest in the field of vector optimization I stumbled first upon this subject in 1982 I was attracted then by a gap between vector optimization used to serve as a formal model for multiple objective decision problems and the decision problems themselves the gap nonexistent in scalar optimization Roughly speaking vector optimization provides methods for ranking decisions according to a partial order whereas decision making requires a linear ordering of decisions This declaration is still valid and nothing needs to be changed To be more specific this book is a fruit of my dissatisfaction with the current state of the art of MCDM MCDM is a branch of science whose declared ultimate goal is to provide practical tools However we cannot say and this is regrettable that all present MCDM methods and algorithms are in popular use by those who make complex decisions and for that purpose are in need of methodological or computational support Tutorials on Emerging Methodologies and Applications in Operations Research Institute for Operations Research and the Management Sciences. National Meeting, 2005

Operations Research emerged as a quantitative approach to problem solving in World War II Its founders who were physicists mathematicians and engineers quickly found peace time uses for this new field Moreover we can say that Operations Research OR was born in the same incubator as computer science and through the years it has spawned many new disciplines including systems engineering health care management and transportation science Fundamentally

Operations Research crosses discipline domains to seek solutions on a range of problems and benefits diverse disciplines from finance to bioengineering Many disciplines routinely use OR methods Many scientific researchers engineers and others will find the methodological presentations in this book useful and helpful in their problem solving efforts OR's strengths are modeling analysis and algorithm design It provides a quantitative foundation for a broad spectrum of problems from economics to medicine from environmental control to sports from e commerce to computational geometry The primary purpose of TUTORIALS ON EMERGING METHODOLOGIES AND APPLICATIONS IN OPERATIONS RESEARCH is to provide a reference for practitioners and academics who seek a clear concise presentation of developing methodologies hence providing themselves with the capability to apply these methods to new problems The field of Operations Research is always changing Its changes are driven by the technology it uses and that it extends and the applications that it affects Relevant changes in the field have a permanent effect on the conduct of OR and are vital to anyone who wants to be current in the field Each chapter presents a new developing methodology in Operations Research Each chapter examines each topic with clarity and depth and organizes the examination around the following questions 1 What the developing methodology basically is about 2 Why is it important and 3 Where can I learn more

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

Markov Chains: Models, Algorithms and Applications Wai-Ki Ching, Michael K. Ng, 2006-06-05 Markov chains are a particularly powerful and widely used tool for analyzing a variety of stochastic probabilistic systems over time This monograph will present a series of Markov models starting from the basic models and then building up to higher order models Included in the higher order discussions are multivariate models higher order multivariate models and higher order hidden models In each case the focus is on the important kinds of applications that can be made with the class of models being considered in the current chapter Special attention is given to numerical algorithms that can efficiently solve the models Therefore Markov Chains Models Algorithms and Applications outlines recent developments of Markov chain models for modeling queueing sequences Internet re manufacturing systems reverse logistics inventory systems bio informatics DNA sequences genetic networks data mining and many other practical systems

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 *Mass Customization* Thorsten Blecker, Gerhard Friedrich, 2006-07-31 *Mass Customization Challenges and Solutions* defines the parameters of the emerging business strategy mass customization The book will cover the main categories of the area with a systematic examination of the following themes manufacturing systems and mass customization supply chain management and mass customization and information systems and mass customization In addition to being tightly organized by themes and a carefully selected group of contributors the Editors will write introductory material to the sections along with introductory and concluding chapters The result is a book that provides the field with the conceptual framework of mass customization its tools its solutions and real world examples of successful implementations of the business strategy An important book for academics working in production operations production manufacturing industrial engineering logistics supply chain management and industry practitioners

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

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

Applied Probability and Stochastic Processes J. George Shanthikumar, Ushio Sumita, 1999-11-30 *Applied Probability and Stochastic Processes* is an edited work written in honor of Julien Keilson This volume has attracted a host of scholars in applied probability who have made major contributions to the field and have

written survey and state of the art papers on a variety of applied probability topics including but not limited to perturbation method time reversible Markov chains Poisson processes Brownian techniques Bayesian probability optimal quality control Markov decision processes random matrices queueing theory and a variety of applications of stochastic processes The book has a mixture of theoretical algorithmic and application chapters providing examples of the cutting edge work that Professor Keilson has done or influenced over the course of his highly productive and energetic career in applied probability and stochastic processes The book will be of interest to academic researchers students and industrial practitioners who seek to use the mathematics of applied probability in solving problems in modern society **Intelligent Strategies for Meta**

Multiple Criteria Decision Making Thomas Hanne,2000-12-31 This book analyzes the meta decision problem the problem of the numerous MCDM methods that can be applied to a decision problem It provides two strategies to help the decision makers select and design an appropriate approach to a complex decision problem One strategy is to use machine learning to design an MCDM method The other is based on solving the meta decision problem interactively by selecting or designing a method suitable to the specific problem Examples of this approach explain the possibilities of applying the elaborated techniques and their mutual interplay Specific chapters explain the meta decision problem and discuss neural networks evolutionary learning combinations of MCDM methods loops and applications of loops c Book News Inc **The British**

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International Business Machines Corporation,1967 **Mathematical Reviews** ,2002 **Handbook of Simulation Optimization** Michael C Fu,2014-11-13 The Handbook of Simulation Optimization presents an overview of the state of the art of simulation optimization providing a survey of the most well established approaches for optimizing stochastic simulation models and a sampling of recent research advances in theory and methodology Leading contributors cover such topics as discrete optimization via simulation ranking and selection efficient simulation budget allocation random search methods response surface methodology stochastic gradient estimation stochastic approximation sample average approximation stochastic constraints variance reduction techniques model based stochastic search methods and Markov decision processes This single volume should serve as a reference for those already in the field and as a means for those new to the field for understanding and applying the main approaches The intended audience includes researchers practitioners and graduate students in the business engineering fields of operations research management science operations management and stochastic control as well as in economics finance and computer science [Naval Research Logistics](#) ,1992

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