ENTROPY OPTIMIZATION AND MATHEMATICAL PROGRAMMING

Edited by

Shu–Cherng Fang

Entropy Optimization And Mathematical Programming

Robert R. Redfield

Entropy Optimization And Mathematical Programming Entropy Optimization And Mathematical Programming:

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   Entropy Optimization and Mathematical Programming H.-S. J. Tsao,J. R. Rajasekera,1997   **Maximum-Entropy Sampling** Marcia Fampa,Jon Lee,2022-10-29 This monograph presents a comprehensive treatment of the maximum entropy sampling problem MESP which is a fascinating topic at the intersection of mathematical optimization and data science The text situates MESP in information theory as the algorithmic problem of calculating a sub vector of pre specified size from a multivariate Gaussian random vector so as to maximize Shannon s differential entropy The text collects and expands on state of the art algorithms for MESP and addresses its application in the field of environmental monitoring While MESP is a central optimization problem in the theory of statistical designs particularly in the area of spatial monitoring this book largely focuses on the unique challenges of its algorithmic side From the perspective of mathematical optimization methodology MESP is rather unique a 0 1 nonlinear program having a nonseparable objective function and the algorithmic techniques employed are highly non standard In particular successful techniques come from several disparate areas within the field of mathematical optimization for example convex optimization and duality semidefinite programming Lagrangian relaxation dynamic programming approximation algorithms 0 1 optimization e g branch and bound extended formulation and many aspects of matrix theory The book is mainly aimed at graduate students and researchers in mathematical optimization and data analytics   **Traffic and Granular Flow '11** Valery V. Kozlov,Alexander P. Buslaev,Alexander S. Bugaev,Marina V. Yashina,Andreas Schadschneider,Michael Schreckenberg,2014-07-08 This book continues the biannual series of conference proceedings which has become a classical reference resource in traffic and granular research alike It addresses new developments at the interface between physics engineering and computational science Complex systems where many simple agents be they vehicles or particles give rise to

surprising and fascinating phenomena The contributions collected in these proceedings cover several research fields all of which deal with transport Topics include highway pedestrian and internet traffic granular matter biological transport transport networks data acquisition data analysis and technological applications Different perspectives i e modeling simulations experiments and phenomenological observations are considered **Image Restoration** Aymeric Histace,2012-04-04 This book represents a sample of recent contributions of researchers all around the world in the field of image restoration The book consists of 15 chapters organized in three main sections Theory Applications Interdisciplinarity Topics cover some different aspects of the theory of image restoration but this book is also an occasion to highlight some new topics of research related to the emergence of some original imaging devices From this arise some real challenging problems related to image reconstruction restoration that open the way to some new fundamental scientific questions closely related with the world we interact with **Data Mining in Biomedicine** Panos M. Pardalos,Vladimir L. Boginski,Alkis Vazacopoulos,2008-12-10 This volume presents an extensive collection of contributions covering aspects of the exciting and important research field of data mining techniques in biomedicine Coverage includes new approaches for the analysis of biomedical data applications of data mining techniques to real life problems in medical practice comprehensive reviews of recent trends in the field The book addresses incorporation of data mining in fundamental areas of biomedical research genomics proteomics protein characterization and neuroscience *SIAM Journal on Control and Optimization* Society for Industrial and Applied Mathematics,1976 Contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations dynamics infinite dimensional spaces or fundamental issues in variational analysis and geometry **Interior Point Algorithms** Yinyu Ye,2011-10-11 The first comprehensive review of the theory and practice of one oftoday s most powerful optimization techniques The explosive growth of research into and development of interiorpoint algorithms over the past two decades has significantlyimproved the complexity of linear programming and yielded some oftoday s most sophisticated computing techniques This book offers acomprehensive and thorough treatment of the theory analysis andimplementation of this powerful computational tool Interior Point Algorithms provides detailed coverage of all basicand advanced aspects of the subject Beginning with an overview offundamental mathematical procedures Professor Yinyu Ye movesswiftly on to in depth explorations of numerous computationalproblems and the algorithms that have been developed to solve them An indispensable text reference for students and researchers inapplied mathematics computer science operations research management science and engineering Interior Point Algorithms Derives various complexity results for linear and convexprogramming Emphasizes interior point geometry and potential theory Covers state of the art results for extension implementation and other cutting edge computational techniques Explores the hottest new research topics including nonlinearprogramming and nonconvex optimization **Numerical**

Analysis and Mathematical Modelling Andrzej Wakulicz,1990   **Geometric Programming** Carlton Scott,Shu-Cherng Fang,2002   **Revue Roumaine de Mathématiques Pures Et Appliquées** ,2007   *Thermodynamic Approaches in Engineering Systems* Stanislaw Sieniutycz,2016-05-20 Thermodynamic Approaches in Engineering Systems responds to the need for a synthesizing volume that throws light upon the extensive field of thermodynamics from a chemical engineering perspective that applies basic ideas and key results from the field to chemical engineering problems This book outlines and interprets the most valuable achievements in applied non equilibrium thermodynamics obtained within the recent fifty years It synthesizes nontrivial achievements of thermodynamics in important branches of chemical and biochemical engineering Readers will gain an update on what has been achieved what new research problems could be stated and what kind of further studies should be developed within specialized research Presents clearly structured chapters beginning with an introduction elaboration of the process and results summarized in a conclusion Written by a first class expert in the field of advanced methods in thermodynamics Provides a synthesis of recent thermodynamic developments in practical systems Presents very elaborate literature discussions from the past fifty years   Mathematical Reports ,2004   Bulletin mathématique Societatea de Ştiinţe Matematice,1998   *Advanced Techniques in the Optimum Design of Structures* Santiago Hernández,1993   **Italian Journal of Pure and Applied Mathematics** ,2001   **Analele Universității București** ,1996   Ill-posed Variational Problems and Regularization Techniques Michel Thera,1999-11-17 This book presents recent developments in the field of ill posed variational problems and variational inequalities covering a large range of theoretical numerical and practical aspects The main topics are Regularization techniques for equilibrium and fixed point problems variational inequalities and complementary problems Links between approximation penalization and regularization Bundle methods nonsmooth optimization and regularization Error Bounds for regularized optimization problems   *Selected Papers, CWI-IMACS Symposia on Parallel Scientific Computing* ,1991   **NASA Thesaurus** ,1985

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