Hal R. Varian   Editor

Economic and Financial Modeling with Mathematica®

Economic And Financial Modeling With Mathematica

Hal R. Varian

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into account the computational aspects Part III explains modeling aspects of multistage stochastic programming on a relatively accessible level It includes a survey of existing software links to parametric multiobjective and dynamic programming and to probability and statistics It focuses on scenario based problems with the problems of scenario generation and output analysis discussed in detail and illustrated within a case study   Bayesian Biostatistics Donald A. Berry,Dalene Stangl,2018-10-03 This work provides descriptions explanations and examples of the Bayesian approach to statistics demonstrating the utility of Bayesian methods for analyzing real world problems in the health sciences The work considers the individual components of Bayesian analysis College or university bookstores may order five or more copies at a special student price available on request from Marcel Dekker Inc   **Indivisibilities** Hagen Bobzin,2012-12-06 The analysis of this volume represents an attempt to apply modern mathematical techniques to the problems arising from large and significant indivisibilities While the classical microeconomic theory refers to assumptions about the convexity of production sets and consumer preferences this book directs the attention to indivisible commodities It investigates the influence of the assumed indivisibilities of factors and goods on the results of the microeconomic theory of the firm the theory of the household and market theory   **Pareto-Nash-Stackelberg Game and Control Theory** Valeriu Ungureanu,2018-03-09 This book presents a comprehensive new multi objective and integrative view on traditional game and control theories Consisting of 15 chapters it is divided into three parts covering noncooperative games mixtures of simultaneous and sequential multi objective games and multi agent control of Pareto Nash Stackelberg type games respectively Can multicriteria optimization game theory and optimal control be integrated into a unique theory Are there mathematical models and solution concepts that could constitute the basis of a new paradigm Is there a common approach and method to solve emerging problems The book addresses these and other related questions and problems to create the foundation for the Pareto Nash Stackelberg Game and Control Theory It considers a series of simultaneous Nash and sequential Stackelberg games single criterion and multicriteria Pareto games combining Nash and Stackelberg game concepts and Pareto optimization as well as a range of notions related to system control In addition it considers the problems of finding and representing the entire set of solutions Intended for researches professors specialists and students in the areas of game theory operational research applied mathematics economics computer science and engineering it also serves as a textbook for various courses in these fields   Handbook of Macroeconomics John B. Taylor,Harald Uhlig,2016-11-12 Handbook of Macroeconomics Volumes 2A and 2B surveys major advances in macroeconomic scholarship since the publication of Volume 1 1999 carefully distinguishing between empirical theoretical methodological and policy issues including fiscal monetary and regulatory policies to deal with crises unemployment and economic growth As this volume shows macroeconomics has undergone a profound change since the publication of the last volume due in no small part to the questions thrust into the spotlight by the worldwide financial crisis of 2008 With contributions from the world s leading

macroeconomists its reevaluation of macroeconomic scholarship and assessment of its future constitute an investment worth making Serves a double role as a textbook for macroeconomics courses and as a gateway for students to the latest research Acts as a one of a kind resource as no major collections of macroeconomic essays have been published in the last decade Builds upon Volume 1 by using its section headings to illustrate just how far macroeconomic thought has evolved **Global Derivatives** Eric Benhamou,2007 This book provides a broad description of the financial derivatives business from a practitioner s point of view with a particular emphasis on fixed income derivatives a specific development on fixed income derivatives and a practical approach to the field With particular emphasis on the concrete usage of mathematical models numerical methods and the pricing methodology this book is an essential reading for anyone considering a career in derivatives either as a trader a quant or a structurer **Numerical Solution of Stochastic Differential Equations** Peter E. Kloeden,Eckhard Platen,2013-04-17 The aim of this book is to provide an accessible introduction to stochastic differ ential equations and their applications together with a systematic presentation of methods available for their numerical solution During the past decade there has been an accelerating interest in the de velopment of numerical methods for stochastic differential equations SDEs This activity has been as strong in the engineering and physical sciences as it has in mathematics resulting inevitably in some duplication of effort due to an unfamiliarity with the developments in other disciplines Much of the reported work has been motivated by the need to solve particular types of problems for which even more so than in the deterministic context specific methods are required The treatment has often been heuristic and ad hoc in character Nevertheless there are underlying principles present in many of the papers an understanding of which will enable one to develop or apply appropriate numerical schemes for particular problems or classes of problems Modern Methods for Business Research George A. Marcoulides,1998-03-01 This volume introduces the latest popular methods for conducting business research The goal of each chapter author a leading authority in a particular subject area is to provide an understanding of each method with a minimum of mathematical derivations The chapters are organized within three general interrelated topics Measurement Decision Analysis and Modeling The chapters on measurement discuss generalizability theory latent trait and latent class models and multi faceted Rasch modeling The chapters on decision analysis feature applied location theory models data envelopment analysis and heuristic search procedures The chapters on modeling examine exploratory and confirmatory factor analysis dynamic factor analysis partial least squares and structural equation modeling multilevel data analysis modeling of longitudinal data by latent growth curve methods and structures and configural models of longitudinal categorical data Acta Numerica 1999: Volume 8 Arieh Iserles,1999-07-22 Numerical analysis is the subject of applied mathematics concerned mainly with using computers in evaluating or approximating mathematical models As such it is crucial to all applications of mathematics in science and engineering as well as being an important discipline on its own Acta Numerica surveys annually the most important developments in numerical analysis and

scientific computing The subjects and authors of the substantive survey articles are chosen by a distinguished international editorial board so as to report the most important developments in the subject in a manner accessible to the wider community of professionals with an interest in scientific computing **Economic & Financial Computing** ,1995

   Handbook of Stochastic Analysis and Applications D. Kannan,V. Lakshmikantham,2001-10-23 An introduction to general theories of stochastic processes and modern martingale theory The volume focuses on consistency stability and contractivity under geometric invariance in numerical analysis and discusses problems related to implementation simulation variable step size algorithms and random number generation **New Operational Approaches for Financial Modelling** Constantin Zopounidis,2012-12-06 th This book is devoted to the 19 Meeting of the EURO Working Group on Financial Modelling held in Chania Crete Greece November28 30 1996 The EURO Working Group on Financial Modelling was founded in September 1986 in Lisbon The primary field of interest for the Working Group can be described as the development of financial models that help to solve problems facedby financial managers in the firm From this point of view the following objectivesof the Working Group are distinguished providing an international forum for exchange of information and experience on financial modelling encouraging research in financial modelling i e new techniques methodologies software empirical studies etc stimulating and strengthening the interaction between financial economic theory and the practice of financial decision making cooperating and exchanging information with universities and financial institutions throughout Europe According to the aboveobjectives the basic aim of this book is to present some new operational approaches i e neural nets multicriteria analysis new optimization algorithms decision software etc for financial modelling both in a theoretical and practical levels Thus the present volume is divided in nine chapters The first chapter refers to the new trends in financial modelling and includes two invited papers by Gil Aluja and Pardalos The second chapter involves papers on the topic of high performance computing and finance which is a European union project in which participate some members of the EURO Working Group on Financial Modelling Spronk Zenios Dempster etc **Cooperative Games on Combinatorial Structures** Jesús Mario Bilbao,2012-12-06 The aim of Cooperative Games on Combinatorial Structures is to analyze conflict situations in which two or more players can make coalitions and obtain prizes and penalties This approach to situations of competition and cooperation was given in the seminal treatise by John von Neumann and Oskar Morgenstern Theory of Games and Economic Behavior Cooperative game theory has succeeded in providing many applications of game theory In this volume games defined on combinatorial structures will be analyzed i e a set system over a set of players In many situations the author will work in a closure space Examples of closure operators are the spanning operator of linear algebra and all convex hull operators Chapters 1 4 constitute a review of mathematical concepts from Cooperative Game Theory Graph Theory Linear and Integer Programming Combinatorial Optimization Discrete Convex Analysis and Computational Complexity The table of contents is a short guide to the topics and methods covered in this book In Chapters 11 and 12

several notebooks are presented with the system Mathematica by Wolfram in the contexts of the packages DiscreteMath Skiena and Cooperative Carter There will also be found in the book several research projects These are intended to offer new ideas that the reader should consider with caution This book will be of interest to graduate students with some experience in game theory or mathematical programming and professional researchers in game theory operational research and its applications in economic theory and the political and social sciences In addition it will be especially useful for professionals who are interested in models for understanding and managing conflicts management and operational research scientists political and military scientists and professional negotiators

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Table of Contents Economic And Financial Modeling With Mathematica

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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