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Charles F. Manski

**Partial
Identification
of Probability
Distributions**



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Partial Identification Of Probability Distributions

Steven Durlauf, L. Blume



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Partial Identification of Probability Distributions Charles F. Manski, 2006-04-29 Sample data alone never suffice to draw conclusions about populations. Inference always requires assumptions about the population and sampling process. Statistical theory has revealed much about how strength of assumptions affects the precision of point estimates but has had much less to say about how it affects the identification of population parameters. Indeed it has been commonplace to think of identification as a binary event: a parameter is either identified or not, and to view point identification as a precondition for inference. Yet there is enormous scope for fruitful inference using data and assumptions that partially identify population parameters. This book explains why and shows how. The book presents in a rigorous and thorough manner the main elements of Charles Manski's research on partial identification of probability distributions. One focus is prediction with missing outcome or covariate data. Another is decomposition of finite mixtures with application to the analysis of contaminated sampling and ecological inference. A third major focus is the analysis of treatment response. Whatever the particular subject under study, the presentation follows a common path. The author first specifies the sampling process generating the available data and asks what may be learned about population parameters using the empirical evidence alone. He then asks how the typically set-valued identification regions for these parameters shrink if various assumptions are imposed. The approach to inference that runs throughout the book is deliberately conservative and thoroughly nonparametric. **Microeconometrics**

Steven Durlauf, L. Blume, 2016-06-07 Specially selected from *The New Palgrave Dictionary of Economics* 2nd edition, each article within this compendium covers the fundamental themes within the discipline and is written by a leading practitioner in the field. A handy reference tool. *Social Choice with Partial Knowledge of Treatment Response* Charles F.

Manski, 2005-10-30 This book addresses key aspects of this broad question, exploring and partially resolving pervasive problems of identification and statistical inference that arise when studying treatment response and making treatment choices. Charles Manski addresses the treatment choice problem directly using Abraham Wald's statistical decision theory, taking into account the ambiguity that arises from identification problems under weak but justifiable assumptions. **BOOK JACKET**

Theory of Random Sets Ilya Molchanov, 2005-11-28 This is the first systematic exposition of random sets theory since Matheron 1975, with full proofs, exhaustive bibliographies, and literature notes. Interdisciplinary connections and applications of random sets are emphasized throughout the book. An extensive bibliography in the book is available on the Web at http://linwww.ira.uka.de/bibliography/math/random/closed_sets.html and is accompanied by a search engine.

Identification Problems in the Social Sciences Charles F. Manski, 1995 The author draws on examples from a range of disciplines to provide social and behavioural scientists with a toolkit for finding bounds when predicting behaviours based upon nonexperimental and experimental data. **Identifiability In Stochastic Models** B. L. S. Prakasa Rao, 1992-06-16

The problem of identifiability is basic to all statistical methods and data analysis occurring in such diverse areas as Reliability

Theory Survival Analysis and Econometrics where stochastic modeling is widely used Mathematics dealing with identifiability per se is closely related to the so called branch of characterization problems in Probability Theory This book brings together relevant material on identifiability as it occurs in these diverse fields

Partial Identification in Econometrics and Related Topics Nguyen Ngoc Thach, Nguyen Duc Trung, Doan Thanh Ha, Vladik Kreinovich, 2024-07-31 This book covers data processing techniques with economic and financial application being the unifying theme To make proper investments in economy the authors need to have a good understanding of the future trends how will demand change how will prices change etc In general in science the usual way to make predictions is to identify a model that best fits the current dynamics and to use this model to predict the future behavior In many practical situations especially in economics our past experiences are limited As a result the authors can only achieve a partial identification It is therefore important to be able to make predictions based on such partially identified models which is the main focus of this book This book emphasizes partial identification techniques but it also describes and uses other econometric techniques ranging from more traditional statistical techniques to more innovative ones such as game theoretic approach interval techniques and machine learning Applications range from general analysis of GDP growth stock market and consumer prices to analysis of specific sectors of economics credit and banking energy health labor tourism international trade to specific issues affecting economy such as ecology national culture government regulations and the existence of shadow economy This book shows what has been achieved but even more important are remaining open problems The authors hope that this book will inspire practitioners to learn how to apply state of the art techniques especially techniques of optimal transport statistics to economic and financial problems and inspire researchers to further improve the existing techniques and to come up with new techniques for studying economic and financial phenomena The authors want to thank all the authors for their contributions and all anonymous referees for their thorough analysis and helpful comments The publication of this book and organization of the conference at which these papers were presented was supported by the Ho Chi Minh University of Banking HUB Vietnam and by the Vingroup Innovation Foundation VINIF The authors thank the leadership and staff of HUB and VINIF for providing crucial support

Inverse Problem Theory and Methods for Model Parameter Estimation Albert Tarantola, 2005-01-01 While the prediction of observations is a forward problem the use of actual observations to infer the properties of a model is an inverse problem Inverse problems are difficult because they may not have a unique solution The description of uncertainties plays a central role in the theory which is based on probability theory This book proposes a general approach that is valid for linear as well as for nonlinear problems The philosophy is essentially probabilistic and allows the reader to understand the basic difficulties appearing in the resolution of inverse problems The book attempts to explain how a method of acquisition of information can be applied to actual real world problems and many of the arguments are heuristic

Bayesian Data Analysis, Third Edition Andrew Gelman, John B. Carlin, Hal S. Stern, David B. Dunson, Aki

Vehtari, Donald B. Rubin, 2013-11-01 Now in its third edition this classic book is widely considered the leading text on Bayesian methods lauded for its accessible practical approach to analyzing data and solving research problems Bayesian Data Analysis Third Edition continues to take an applied approach to analysis using up to date Bayesian methods The authors all leaders in the statistics community introduce basic concepts from a data analytic perspective before presenting advanced methods Throughout the text numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary avoiding priors Updated discussion of cross validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo variational Bayes and expectation propagation New and revised software code The book can be used in three different ways For undergraduate students it introduces Bayesian inference starting from first principles For graduate students the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields For researchers it provides an assortment of Bayesian methods in applied statistics Additional materials including data sets used in the examples solutions to selected exercises and software instructions are available on the book's web page

Bayesian Networks Marco Scutari, Jean-Baptiste Denis, 2021-07-28 Bayesian Networks With Examples in R Second Edition introduces Bayesian networks using a hands on approach Simple yet meaningful examples illustrate each step of the modelling process and discuss side by side the underlying theory and its application using R code The examples start from the simplest notions and gradually increase in complexity In particular this new edition contains significant new material on topics from modern machine learning practice dynamic networks networks with heterogeneous variables and model validation The first three chapters explain the whole process of Bayesian network modelling from structure learning to parameter learning to inference These chapters cover discrete Gaussian and conditional Gaussian Bayesian networks The following two chapters delve into dynamic networks to model temporal data and into networks including arbitrary random variables using Stan The book then gives a concise but rigorous treatment of the fundamentals of Bayesian networks and offers an introduction to causal Bayesian networks It also presents an overview of R packages and other software implementing Bayesian networks The final chapter evaluates two real world examples a landmark causal protein signalling network published in Science and a probabilistic graphical model for predicting the composition of different body parts Covering theoretical and practical aspects of Bayesian networks this book provides you with an introductory overview of the field It gives you a clear practical understanding of the key points behind this modelling approach and at the same time it makes you familiar with the most relevant packages used to implement real world analyses in R The examples covered in the book span several application fields data driven models and expert systems probabilistic and causal perspectives thus giving you a starting point to work in a variety of scenarios Online supplementary materials include the data sets and the code used

in the book which will all be made available from <https://www.bnlearn.com/book/crc/2ed/> **A Modern Introduction to Probability and Statistics** F.M. Dekking, C. Kraaikamp, H.P. Lopuhaä, L.E. Meester, 2006-03-30 Many current texts in the area are just cookbooks and as a result students do not know why they perform the methods they are taught or why the methods work The strength of this book is that it readdresses these shortcomings by using examples often from real life and using real data the authors show how the fundamentals of probabilistic and statistical theories arise intuitively A Modern Introduction to Probability and Statistics has numerous quick exercises to give direct feedback to students In addition there are over 350 exercises half of which have answers of which half have full solutions A website gives access to the data files used in the text and for instructors the remaining solutions The only pre requisite is a first course in calculus the text covers standard statistics and probability material and develops beyond traditional parametric models to the Poisson process and on to modern methods such as the bootstrap

The Fundamentals of Heavy Tails Jayakrishnan Nair, Adam Wierman, Bert Zwart, 2022-06-09 Heavy tails extreme events or values more common than expected emerge everywhere the economy natural events and social and information networks are just a few examples Yet after decades of progress they are still treated as mysterious surprising and even controversial primarily because the necessary mathematical models and statistical methods are not widely known This book for the first time provides a rigorous introduction to heavy tailed distributions accessible to anyone who knows elementary probability It tackles and tames the zoo of terminology for models and properties demystifying topics such as the generalized central limit theorem and regular variation It tracks the natural emergence of heavy tailed distributions from a wide variety of general processes building intuition And it reveals the controversy surrounding heavy tails to be the result of flawed statistics then equips readers to identify and estimate with confidence Over 100 exercises complete this engaging package

Fractals in Probability and Analysis Christopher J. Bishop, Yuval Peres, 2017 A mathematically rigorous introduction to fractals emphasizing examples and fundamental ideas while minimizing technicalities

Discrete Choice Methods with Simulation Kenneth Train, 2009 This book describes the new generation of discrete choice methods focusing on the many advances that are made possible by simulation Researchers use these statistical methods to examine the choices that consumers households firms and other agents make Each of the major models is covered logit generalized extreme value or GEV including nested and cross nested logits probit and mixed logit plus a variety of specifications that build on these basics Recent advances in Bayesian procedures are explored including the use of the Metropolis Hastings algorithm and its variant Gibbs sampling This second edition adds chapters on endogeneity and expectation maximization EM algorithms No other book incorporates all these fields which have arisen in the past 25 years The procedures are applicable in many fields including energy transportation environmental studies health labor and marketing Pub desc

Analog Estimation Methods in Econometrics Charles F. Manski, 1988-06-15 Presents familiar elements of estimation theory from an analog perspective discussing recent developments in the theory of analog estimation

and new results that offer flexibility in empirical research Annotation copyrighted by Book News Inc Portland OR *A First Course in Bayesian Statistical Methods* Peter D. Hoff, 2009-06-02 A self contained introduction to probability exchangeability and Bayes rule provides a theoretical understanding of the applied material Numerous examples with R code that can be run as is allow the reader to perform the data analyses themselves The development of Monte Carlo and Markov chain Monte Carlo methods in the context of data analysis examples provides motivation for these computational methods

Identification for Prediction and Decision Charles F. Manski, 2009-06-30 This book is a full scale exposition of Charles Manski's new methodology for analyzing empirical questions in the social sciences He recommends that researchers first ask what can be learned from data alone and then ask what can be learned when data are combined with credible weak assumptions Inferences predicated on weak assumptions he argues can achieve wide consensus while ones that require strong assumptions almost inevitably are subject to sharp disagreements Building on the foundation laid in the author's *Identification Problems in the Social Sciences* Harvard 1995 the book's fifteen chapters are organized in three parts Part I studies prediction with missing or otherwise incomplete data Part II concerns the analysis of treatment response which aims to predict outcomes when alternative treatment rules are applied to a population Part III studies prediction of choice behavior Each chapter juxtaposes developments of methodology with empirical or numerical illustrations The book employs a simple notation and mathematical apparatus using only basic elements of probability theory **Measure, Integral and Probability** Marek Capinski, (Peter) Ekkehard Kopp, 2013-06-29 The central concepts in this book are Lebesgue measure and the Lebesgue integral Their role as standard fare in UK undergraduate mathematics courses is not wholly secure yet they provide the principal model for the development of the abstract measure spaces which underpin modern probability theory while the Lebesgue function spaces remain the main source of examples on which to test the methods of functional analysis and its many applications such as Fourier analysis and the theory of partial differential equations It follows that not only budding analysts have need of a clear understanding of the construction and properties of measures and integrals but also that those who wish to contribute seriously to the applications of analytical methods in a wide variety of areas of mathematics physics electronics engineering and most recently finance need to study the underlying theory with some care We have found remarkably few texts in the current literature which aim explicitly to provide for these needs at a level accessible to current undergraduates There are many good books on modern probability theory and increasingly they recognize the need for a strong grounding in the tools we develop in this book but all too often the treatment is either too advanced for an undergraduate audience or else somewhat perfunctory [An Introduction to Stochastic Modeling](#) Howard M. Taylor, Samuel Karlin, 2014-05-10 *An Introduction to Stochastic Modeling* provides information pertinent to the standard concepts and methods of stochastic modeling This book presents the rich diversity of applications of stochastic processes in the sciences Organized into nine chapters this book begins with an overview of diverse types of stochastic models which

predicts a set of possible outcomes weighed by their likelihoods or probabilities This text then provides exercises in the applications of simple stochastic analysis to appropriate problems Other chapters consider the study of general functions of independent identically distributed nonnegative random variables representing the successive intervals between renewals This book discusses as well the numerous examples of Markov branching processes that arise naturally in various scientific disciplines The final chapter deals with queueing models which aid the design process by predicting system performance This book is a valuable resource for students of engineering and management science Engineers will also find this book useful

Handbook of Econometrics, 2020-11-25 Handbook of Econometrics Volume 7A examines recent advances in foundational issues and hot topics within econometrics such as inference for moment inequalities and estimation of high dimensional models With its world class editors and contributors it succeeds in unifying leading studies of economic models mathematical statistics and economic data Our flourishing ability to address empirical problems in economics by using economic theory and statistical methods has driven the field of econometrics to unimaginable places By designing methods of inference from data based on models of human choice behavior and social interactions econometricians have created new subfields now sufficiently mature to require sophisticated literature summaries Presents a broader and more comprehensive view of this expanding field than any other handbook Emphasizes the connection between econometrics and economics Highlights current topics for which no good summaries exist

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