

Efficient And Adaptive Estimation For Semiparametric Models

Sparse Grids and Applications - Munich 2018
 Identification and Inference for Econometric Models
 Foundations of Intelligent Systems
 The Coronavirus Pandemic and Inequality
 Asymptotics, Nonparametrics, and Time Series
 Adaptive Antenna Arrays
 Lectures on Probability Theory and Statistics
 Smoothing in Adaptive Estimation
 Networked Filtering and Fusion in Wireless Sensor Networks
 Optimal Design and Efficiency Improvement of Fluid Machinery and Systems
 Adaptive Maximum Likelihood Estimation of Regression Parameters with Censored Survival Data
 Mathematical Statistics and Applications
 Computer Vision
 Efficient Estimation in the Two-sample Semiparametric Location-scale Model and the Orientation Shift Model
 Statistical Topics and Stochastic Models for Dependent Data with Applications
 Mammographic Image Analysis
 Sequential Methods in Statistics
 Stable Adaptive Control and Estimation for Nonlinear Systems
 Design of Experiments in Nonlinear Models
 Motion Vision
 Computational Vision and Bio-Inspired Computing
 Scientific and Technical Aerospace Reports
 Grid-based Nonlinear Estimation and Its Applications
 SIAM Journal on Scientific Computing
 Numerical Mathematics and Advanced Applications
 Nonparametric Statistical Methods and Related Topics
 Computer Literature Bibliography: 1946-1963
 Computer Vision - ACCV 2010
 Survey Methodology
 Advances in Statistics, Combinatorics and Related Areas
 Fault Tolerant Attitude Estimation for Small Satellites
 Background Modeling and Foreground Detection for Video Surveillance
 Econometrics of Information and Efficiency
 Selected Proceedings of the Symposium on Estimating Functions
 Marine Mammal Survey and Assessment Methods
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Sparse Grids and Applications - Munich 2018 CRC Press

An invaluable instrument for gaining a wide-ranging perspective on the latest developments in mathematical aspects of scientific computing, discovering new applications and the most recent developments in long-standing applications. Provides an insight into the state of the art of Numerical Mathematics and, more generally, into the field of Advanced Applications.

Identification and Inference for Econometric Models CRC Press

This book is a collective volume authored by leading scientists in the field of stochastic modelling, associated statistical topics and corresponding applications. The main classes of stochastic processes for dependent data investigated throughout this book are Markov, semi-Markov, autoregressive and piecewise deterministic Markov models. The material is divided into three parts corresponding to: (i) Markov and semi-Markov processes, (ii) autoregressive processes and (iii)

techniques based on divergence measures and entropies. A special attention is paid to applications in reliability, survival analysis and related fields.

Foundations of Intelligent Systems CRC Press

This volume comprises the proceedings of a symposium on marine mammal survey assessment methods, which took place in Seattle, Washington, USA.

The Coronavirus Pandemic and Inequality Cambridge University Press

This book explores four guiding themes – reduced order modelling, high dimensional problems, efficient algorithms, and applications – by reviewing recent algorithmic and mathematical advances and the development of new research directions for uncertainty quantification in the context of partial differential equations with random inputs. Highlighting the most promising approaches for (near-) future improvements in the way uncertainty quantification problems in the partial differential equation setting are solved, and gathering contributions by leading international experts, the book's content will impact the scientific, engineering, financial, economic, environmental, social, and commercial sectors.

Asymptotics, Nonparametrics, and Time Series Springer Nature

Proceedings of the Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISKE 2011, held December 15-17 in Shanghai, China. This proceedings doesn't only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing paradigms. The book introduces the current scientific and technical advances in the fields of artificial intelligence, machine learning, pattern recognition, data mining, information retrieval, knowledge-based systems, knowledge representation and reasoning, multi-agent systems, natural-language processing, etc. Furthermore, new computing methodologies are presented, including cloud computing, service computing and pervasive computing with traditional intelligent methods. The proceedings will be beneficial for both researchers and practitioners who want to utilize intelligent methods in their specific research fields. Dr. Yinglin Wang is a professor at the Department of Computer Science and Engineering, Shanghai Jiao Tong University, China; Dr. Tianrui Li is a professor at the School of Information Science and Technology, Southwest Jiaotong University, China.
Adaptive Antenna Arrays Springer Science & Business Media

This volume consists of 22 research papers by leading researchers in Probability and Statistics. Many of the papers are focused on themes that Professor Bhattacharya has published on research. Topics of special interest include nonparametric inference, nonparametric curve fitting, linear model theory, Bayesian nonparametrics, change point problems, time series analysis and asymptotic theory. This volume presents state-of-the-art research in statistical theory, with an emphasis on nonparametric inference, linear model theory, time series analysis and asymptotic theory. It will serve as a valuable reference to the statistics research community as well as to practitioners who utilize methodology in these areas of emphasis. Contents: Review Papers: On the Scholarly Work of P K Bhattacharya (P Hall & F J Samaniego) The Propensity Score and Its Role in Causal Inference (C Drake & T Loux) Recent Tests for Symmetry with Multivariate and Structured Data: A Review (S G Meintanis & J Ngatchou-Wandji) Papers on General Nonparametric Inference: On Robust Versions of Classical Tests with Dependent Data (J Jiang) Density Estimation by Sampling from Stationary Continuous Time Parameter Associated Processes (G G Roussas & D Bhattacharya) A Short Proof of the Feigin-Tweedie Theorem on the Existence of the Mean Functional of a Dirichlet Process (J Sethuraman) Max-Min Bernstein Polynomial Estimation of a Discontinuity in Distribution (K-S Song) U-Statistics Based on Higher-Order Spacings (D D Tung & S R Jammalamadaka) Nonparametric Models for Non-Gaussian Longitudinal Data (N Zhang, H-G Müller and J-L Wang) Papers on Aspects of Linear or Generalized Linear Models: Better Residuals (R Beran) The Use of Peters-Belson Regression in Legal Cases (E Bura, J L Gastwirth & H Hikawa) On a Hybrid Approach to Parametric and Nonparametric Regression (P Burman & P Chaudhuri) Nonparametric Regression Models with Integrated Covariates (Z Cai) A Dynamic Test for Misspecification of a Linear Model (M P McAssey & F Hsieh) Component Decomposition of the Basic Martingale (W Stute) Papers on Time Series Analysis: Smoothing Using Blockwise Least Squares Fitting (A Aue & T C M Lee) Some Recent Advances in Semiparametric Estimation of the GARCH Model (J Di & A Gangopadhyay) Extreme Dependence in Multivariate Time Series: A Review (R Sen & Z Tan) Dynamic Mixed Models for Irregularly Observed Water Quality Data (R H Shumway) Papers on Asymptotic Theory: Asymptotic Behavior of the Kernel Density Estimators for Nonstationary Dependent Random Variables with Binned Data (J-F Lenain, M Harel & M L Puri) Convergence Rates of an Improved Isotonic Regression Estimator (H Mukerjee) Asymptotic Distribution of the Smallest Eigenvalue of Wishart(N,n) When $N, n \rightarrow \infty$ Such That $N/n \rightarrow 0$ (D Paul) Curriculum Vitae: Curriculum Vitae of Prodyot K Bhattacharya Readership: Graduate students and researchers in nonparametric statistics and stochastic analysis. Keywords: Nonparametric Inference; Nonparametric Curve Fitting; Regression Analysis; Bayesian Nonparametrics; Change Point Problems; Asymptotic Theory; Stochastic Processes Key Features: New research in key areas of interest for statistical researchers and practitioners Contributions by prominent statisticians Review articles on the research contributions of P K Bhattacharya, on the area of causal inference and on nonparametric tests for symmetry

Lectures on Probability Theory and Statistics Springer Science & Business Media

Asymptotics, Nonparametrics, and Time Series CRC Press

Smoothing in Adaptive Estimation IMS

By exploiting the synergies among available data, information fusion can reduce data traffic, filter noisy measurements, and make predictions and inferences about a monitored entity. Networked Filtering and Fusion in Wireless Sensor Networks introduces the subject of multi-sensor fusion as the method of choice for implementing distributed systems. The book examines the state of the art in information fusion. It presents the known methods, algorithms, architectures, and models of information fusion and discusses their applicability in the context of wireless sensor networks (WSNs). Paying particular attention to the wide range of topics that have been covered in recent literature, the text presents the results of a number of typical case studies. Complete with research supported elements and comprehensive references, this teaching-oriented volume uses standard scientific terminology, conventions, and notations throughout. It applies recently developed convex optimization theory and highly efficient algorithms in estimation fusion to open up discussion and provide researchers with an ideal starting point for further research on distributed estimation and fusion for WSNs. The book supplies a cohesive overview of the key results of theory and applications of information-fusion-related problems in networked systems in a unified framework. Providing advanced mathematical treatment of fundamental problems with information fusion, it will help you broaden your understanding of prospective applications and how to address such problems in practice. After reading the book, you will gain the understanding required to model parts of dynamic systems and use those models to develop distributed fusion control algorithms

that are based on feedback control theory.

Networked Filtering and Fusion in Wireless Sensor Networks IET

"Contains over 2500 equations and exhaustively covers not only nonparametrics but also parametric, semiparametric, frequentist, Bayesian, bootstrap, adaptive, univariate, and multivariate statistical methods, as well as practical uses of Markov chain models."

Optimal Design and Efficiency Improvement of Fluid Machinery and Systems Springer Nature

The four-volume set LNCS 6492-6495 constitutes the thoroughly refereed post-proceedings of the 10th Asian Conference on Computer Vision, ACCV 2009, held in Queenstown, New Zealand in November 2010. All together the four volumes present 206 revised papers selected from a total of 739 Submissions. All current issues in computer vision are addressed ranging from algorithms that attempt to automatically understand the content of images, optical methods coupled with computational techniques that enhance and improve images, and capturing and analyzing the world's geometry while preparing the higher level image and shape understanding. Novel geometry techniques, statistical learning methods, and modern algebraic procedures are dealt with as well.

Adaptive Maximum Likelihood Estimation of Regression Parameters with Censored Survival Data Springer Science & Business Media

Design of Experiments in Nonlinear Models: Asymptotic Normality, Optimality Criteria and Small-Sample Properties provides a comprehensive coverage of the various aspects of experimental design for nonlinear models. The book contains original contributions to the theory of optimal experiments that will interest students and researchers in the field. Practitioners motivated by applications will find valuable tools to help them designing their experiments. The first three chapters expose the connections between the asymptotic properties of estimators in parametric models and experimental design, with more emphasis than usual on some particular aspects like the estimation of a nonlinear function of the model parameters, models with heteroscedastic errors, etc. Classical optimality criteria based on those asymptotic properties are then presented thoroughly in a special chapter. Three chapters are dedicated to specific issues raised by nonlinear models. The construction of design criteria derived from non-asymptotic considerations (small-sample situation) is detailed. The connection between design and identifiability/estimability issues is investigated. Several approaches are presented to face the problem caused by the dependence of an optimal design on the value of the parameters to be estimated. A survey of algorithmic methods for the construction of optimal designs is provided.

Mathematical Statistics and Applications World Scientific

This book examines the effects of the Covid-19 pandemic on the degree of inequality in wellbeing (income and wealth, health, access to health care, employment, and education) in a number of different countries around the globe. The effect of socioeconomic inequality within a country on the outcome of the pandemic is also considered. This book studies the differential effects of Covid based on location, age, income, education, gender, race/ethnicity, and immigrant status. Special attention is devoted to indigenous populations and those who are institutionalized. The short- and long-term effects of public policy developed to deal with the pandemic's fallout are studied, as are the effects of the pandemic on innovations in health care systems and likely extensions of public policy instituted during the pandemic to alleviate unemployment, poverty, and income inequality.

Computer Vision Springer Science & Business Media

This 2005 collection pushed forward the research frontier in four areas of theoretical econometrics.

Efficient Estimation in the Two-sample Semiparametric Location-scale Model and the Orientation Shift Model IMS

Background modeling and foreground detection are important steps in video processing used to detect robustly moving objects in challenging environments. This requires effective methods for dealing with dynamic backgrounds and illumination changes as well as algorithms that must meet real-time and low memory requirements. Incorporating both established and new ideas, Background Modeling and Foreground Detection for Video Surveillance provides a complete overview of the concepts, algorithms, and applications related to background modeling and foreground detection. Leaders in the field address a wide range of challenges, including camera jitter and background subtraction. The book presents the top methods and algorithms for detecting moving objects in video surveillance. It covers statistical models, clustering models, neural networks, and fuzzy models. It also addresses sensors, hardware, and implementation issues and discusses the resources and datasets required for evaluating and comparing background subtraction algorithms. The datasets and codes used in the text, along with links to software

demonstrations, are available on the book's website. A one-stop resource on up-to-date models, algorithms, implementations, and benchmarking techniques, this book helps researchers and industry developers understand how to apply background models and foreground detection methods to video surveillance and related areas, such as optical motion capture, multimedia applications, teleconferencing, video editing, and human-computer interfaces. It can also be used in graduate courses on computer vision, image processing, real-time architecture, machine learning, or data mining.

Statistical Topics and Stochastic Models for Dependent Data with Applications CRC Press

The work presented in this text relates to research work in the general area of adaptive filter theory and practice which has been carried out at the Department of Electrical Engineering, University of Edinburgh since 1977. Much of the earlier work in the department was devoted to looking at the problems associated with the physical implementation of these structures. This text relates to research which has been undertaken since 1984 which is more involved with the theoretical development of adaptive algorithms. The text sets out to provide a coherent framework within which general adaptive algorithms for finite impulse response adaptive filters may be evaluated. It further presents one approach to the problem of finding a stable solution to the infinite impulse response adaptive filter problem. This latter objective being restricted to the communications equaliser application area. The authors are indebted to a great number of people for their help, guidance and encouragement during the course of preparing this text. We should first express our appreciation for the support given by two successive heads of department at Edinburgh, Professor J. H. Collins and Professor J. Mavor. The work reported here could not have taken place without their support and also that of many colleagues, principally Professor P. M. Grant who must share much of the responsibility for instigating this line of research at Edinburgh.

Mammographic Image Analysis Springer Nature

This compilation of the works and insights of various key scientists and engineers in this area addresses the current and future trends of scenarios for employing adaptive antenna arrays in communication systems. Ideal as a quick reference for engineers, researchers, advanced undergraduate and postgraduate students.

Sequential Methods in Statistics CRC Press

Econometrics as an applied discipline attempts to use information in a most efficient manner, yet the information theory and entropy approach developed by Shannon and others has not played much of a role in applied econometrics. Econometrics of Information and Efficiency bridges the gap. Broadly viewed, information theory analyzes the uncertainty of a given set of data and its probabilistic characteristics. Whereas the economic theory of information emphasizes the value of information to agents in a market, the entropy theory stresses the various aspects of imprecision of data and their interactions with the subjective decision processes. The tools of information theory, such as the maximum entropy principle, mutual information and the minimum discrepancy are useful in several areas of statistical inference, e.g., Bayesian estimation, expected maximum likelihood principle, the fuzzy statistical regression. This volume analyzes the applications of these tools of information theory to the most commonly used models in econometrics. The outstanding features of Econometrics of Information and Efficiency are: A critical survey of the uses of information theory in economics and econometrics; An integration of applied information theory and economic efficiency analysis; The development of a new economic hypothesis relating information theory to economic growth models; New lines of research are emphasized.

Stable Adaptive Control and Estimation for Nonlinear Systems CRC Press

The key contribution of the approach to x-ray mammographic image analysis developed in this monograph is a representation of the non-fatty compressed breast tissue that we show can be derived from a single mammogram. The importance of the representation, called hint, is that it removes all those changes in the image that are due only to the particular imaging conditions (for example, the film speed or exposure time), leaving just the non-fatty 'interesting' tissue. Normalising images in this way enables them to be enhanced and matched, and regions in them to be classified more reliably, because unnecessary, distracting variations have been eliminated. Part I of the monograph develops a model-based approach to x-ray mammography, Part II shows how it can be put to work successfully on a range of clinically-important tasks, while Part III develops a model and exploits it for contrast-enhanced MRI mammography. The final chapter points the way forward in a number of promising areas of research.

Design of Experiments in Nonlinear Models Springer Science & Business Media

Grid-based Nonlinear Estimation and its Applications presents new Bayesian nonlinear estimation

techniques developed in the last two decades. Grid-based estimation techniques are based on efficient and precise numerical integration rules to improve performance of the traditional Kalman filtering based estimation for nonlinear and uncertainty dynamic systems. The unscented Kalman filter, Gauss-Hermite quadrature filter, cubature Kalman filter, sparse-grid quadrature filter, and many other numerical grid-based filtering techniques have been introduced and compared in this book. Theoretical analysis and numerical simulations are provided to show the relationships and distinct features of different estimation techniques. To assist the exposition of the filtering concept, preliminary mathematical review is provided. In addition, rather than merely considering the single sensor estimation, multiple sensor estimation, including the centralized and decentralized estimation, is included. Different decentralized estimation strategies, including consensus,

diffusion, and covariance intersection, are investigated. Diverse engineering applications, such as uncertainty propagation, target tracking, guidance, navigation, and control, are presented to illustrate the performance of different grid-based estimation techniques.

Motion Vision John Wiley & Sons

This proceedings book presents state-of-the-art research innovations in computational vision and bio-inspired techniques. Due to the rapid advances in the emerging information, communication and computing technologies, the Internet of Things, cloud and edge computing, and artificial intelligence play a significant role in the computational vision context. In recent years, computational vision has contributed to enhancing the methods of controlling the operations in biological systems, like ant colony optimization, neural networks, and immune systems. Moreover,

the ability of computational vision to process a large number of data streams by implementing new computing paradigms has been demonstrated in numerous studies incorporating computational techniques in the emerging bio-inspired models. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based models, evolutionary optimization, and big data modeling and management, that make use of effectual computing processes in the bio-inspired systems. As such it contributes to the novel research that focuses on developing bio-inspired computing solutions for various domains, such as human-computer interaction, image processing, sensor-based single processing, recommender systems, and facial recognition, which play an indispensable part in smart agriculture, smart city, biomedical and business intelligence applications.

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