

Contributions to Statistics

V. Fedorov · W. G. Müller
I. N. Vuchkov (Eds.)

Model Oriented Data-Analysis

A Survey of Recent Methods



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Model Oriented Data Analysis

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Model Oriented Data Analysis:

MODA 5 - Advances in Model-Oriented Data Analysis and Experimental Design Anthony C. Atkinson, Luc Pronzato, Henry P. Wynn, 2012-12-06 This volume contains the majority of the papers presented at the 5th International Workshop on Model Oriented Data Analysis held in June 1998. This series started in March 1987 with a meeting on the Wartburg in Eisenach, Germany. The next three meetings were in 1990 at St. Kyrik monastery, Bulgaria; 1992 at Petrodvorets, St. Petersburg, Russia; and 1995 at Spetses, Greece. The main purpose of these workshops was to bring together leading scientists from Eastern and Western Europe for the exchange of ideas in theoretical and applied statistics with special emphasis on experimental design. Now that the separation between East and West has become less rigid, this dialogue has in principle become much easier. However, providing opportunities for this dialogue is as vital as ever. MODA meetings are known for their friendly atmosphere leading to fruitful discussions and collaboration, especially between young and senior scientists. Indeed, many long-term collaborations were initiated during these events. This intellectually stimulating atmosphere is achieved by limiting the number of participants to around eighty by the choice of location so that participants can live as a community and, of course, through the careful selection of scientific direction made by the Programme Committee. **MODA4 — Advances in**

Model-Oriented Data Analysis Christos P. Kitsos, Werner G. Müller, 2013-06-29 This volume is the proceedings of the 4th International Workshop on Model Oriented Data Analysis. This series of events originated in 1987 at a meeting in Eisenach that successfully brought together scientists from numerous countries of the East and West. Now that this distinction is obsolete, dialogue has been greatly facilitated, providing opportunities for this dialogue, however, is as vital as ever. The present meeting at Spetses, Greece, from 5th to 9th of June 1995, again assembles statisticians from all over the world, as this book documents. The hospitality offered by the University of Economics of Athens and the Korgialenios School made it possible to organize this workshop. The editors are also grateful to Intracom, Greece; the Ionian Bank; and the Procter Gamble Company, USA, for their generous support. We would particularly like to mention Dr. Michael Meredith, who, being our contact person at Procter Gamble, enabled us to publish these proceedings. Further thanks go to Dr. Peter Schuster from Physica Verlag, Heidelberg, for his continuing support of the project. The contributions to this volume were carefully selected from the submissions by the editors after a one-stage refereeing process. We would like to thank the members of the MODA committee: A. C. Atkinson, R. D. Cook, V. V. Fedorov, P. Hackl, H. Lauter, B. Torsney, L. N. Vuchkov, H. P. Wynn, and A. A. Zhigljavsky, who not only defined the main topics of the workshop but also served as the referees. **The Art of Semiparametrics** Stefan

Sperlich, Gökhan Aydinli, 2006-07-25 This selection of articles emerged from different works presented at The Art of Semiparametrics conference in 2003 in Berlin. It offers a collection of individual works that together show the large spectrum of semiparametric statistics. The book combines theoretical contributions with more applied and empirical studies. Although each article represents an original contribution to its own field, all are written in a self-contained way that may be read by

non experts **Foundations of Statistical Inference** Yoel Haitovsky, Hans Rudolf Lerche, Ya'acov Ritov, 2003-05-22 This volume is a compressed survey containing recent results on statistics of stochastic processes and on identification with incomplete observations It comprises a collection of papers presented at the Shores Conference 2000 on the Foundation of Statistical Inference The papers cover the following areas with high research activity Identification with Incomplete Observations Data Mining Bayesian Methods and Modelling Testing Goodness of Fit and Randomness Statistics of Stationary Processes Industrial Statistics Christos P. Kitsos, Lutz Edler, 2012-12-06 Devoted to the growing impact of statistical methodology and statistical computing in industry the aim of this book is to link the three components Statistics industry computers Different areas of industrial statistics are presented by a number of excellent contributions The following topics are covered Quality control engineering and monitoring reliability and failure time analysis experimental design repeated measurements multiple inference pharma statistics computing imaging and perception This book concentrates on the interface between statistical needs in industry and statistical methods developed by statisticians and engineers Data Analytics and Management in Data Intensive Domains Leonid Kalinichenko, Yannis Manolopoulos, Oleg Malkov, Nikolay Skvortsov, Sergey Stupnikov, Vladimir Sukhomlin, 2018-07-12 This book constitutes the refereed proceedings of the 19th International Conference on Data Analytics and Management in Data Intensive Domains DAMDID RCDL 2017 held in Moscow Russia in October 2017 The 16 revised full papers presented together with three invited papers were carefully reviewed and selected from 75 submissions The papers are organized in the following topical sections data analytics next generation genomic sequencing challenges and solutions novel approaches to analyzing and classifying of various astronomical entities and events ontology population in data intensive domains heterogeneous data integration issues data curation and data provenance support and temporal summaries generation **Optimal Experimental Design** Jesús López-Fidalgo, 2023-09-12 This textbook provides a concise introduction to optimal experimental design and efficiently prepares the reader for research in the area It presents the common concepts and techniques for linear and nonlinear models as well as Bayesian optimal designs The last two chapters are devoted to particular themes of interest including recent developments and hot topics in optimal experimental design and real world applications Numerous examples and exercises are included some of them with solutions or hints as well as references to the existing software for computing designs The book is primarily intended for graduate students and young researchers in statistics and applied mathematics who are new to the field of optimal experimental design Given the applications and the way concepts and results are introduced parts of the text will also appeal to engineers and other applied researchers **Design of Experiments in Nonlinear Models** Luc Pronzato, Andrej Pázman, 2013-04-10 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

Information Technology and Computer Application Engineering Hsiang-Chuan Liu, Wen-Pei Sung, Wenli Yao, 2013-10-11 This proceedings volume brings together some 189 peer reviewed papers presented at the International Conference on Information Technology and Computer Application Engineering held 27-28 August 2013 in Hong Kong China Specific topics under consideration include Control Robotics and Automation Information Technology Intelligent Computing and Telecommunication Computer Science and Engineering Computer Education and Application and other related topics This book provides readers a state of the art survey of recent innovations and research worldwide in Information Technology and Computer Application Engineering in so doing furthering the development and growth of these research fields strengthening international academic cooperation and communication and promoting the fruitful exchange of research ideas This volume will be of interest to professionals and academics alike serving as a broad overview of the latest advances in the dynamic field of Information Technology and Computer Application Engineering

Reduced Rank Regression Heinz Schmidli, 2013-03-13 Reduced rank regression is widely used in statistics to model multivariate data In this monograph theoretical and data analytical approaches are developed for the application of reduced rank regression in multivariate prediction problems For the first time both classical and Bayesian inference is discussed using recently proposed procedures such as the ECM algorithm and the Gibbs sampler All methods are motivated and illustrated by examples taken from the area of quantitative structure activity relationships QSAR

Recent Advances in Quantitative Methods in Cancer and Human Health Risk Assessment Lutz Edler, Christos Kitsos, 2005-05-27 Human health risk assessment involves the measuring of risk of exposure to disease with a view to improving disease prevention Mathematical biological statistical and computational methods play a key role in exposure assessment hazard assessment and identification and dose response modelling Recent Advances in Quantitative Methods in Cancer and Human Health Risk Assessment is a comprehensive text that accounts for the wealth of new biological data as well as new biological toxicological and medical approaches adopted in risk assessment It provides an authoritative compendium of state of the art methods proposed and used featuring contributions from eminent authors with

varied experience from academia government and industry Provides a comprehensive summary of currently available quantitative methods for risk assessment of both cancer and non cancer problems Describes the applications and the limitations of current mathematical modelling and statistical analysis methods classical and Bayesian Includes an extensive introduction and discussion to each chapter Features detailed studies of risk assessments using biologically based modelling approaches Discusses the varying computational aspects of the methods proposed Provides a global perspective on human health risk assessment by featuring case studies from a wide range of countries Features an extensive bibliography with links to relevant background information within each chapter Recent Advances in Quantitative Methods in Cancer and Human Health Risk Assessment will appeal to researchers and practitioners in public health epidemiology and postgraduate students alike It will also be of interest to professionals working in risk assessment agencies

Model-Based Clustering and Classification for Data Science Charles Bouveyron, Gilles Celeux, T. Brendan Murphy, Adrian E. Raftery, 2019-07-25 Cluster analysis finds groups in data automatically Most methods have been heuristic and leave open such central questions as how many clusters are there Which method should I use How should I handle outliers Classification assigns new observations to groups given previously classified observations and also has open questions about parameter tuning robustness and uncertainty assessment This book frames cluster analysis and classification in terms of statistical models thus yielding principled estimation testing and prediction methods and sound answers to the central questions It builds the basic ideas in an accessible but rigorous way with extensive data examples and R code describes modern approaches to high dimensional data and networks and explains such recent advances as Bayesian regularization non Gaussian model based clustering cluster merging variable selection semi supervised and robust classification clustering of functional data text and images and co clustering Written for advanced undergraduates in data science as well as researchers and practitioners it assumes basic knowledge of multivariate calculus linear algebra probability and statistics

MODa 6, Advances in Model-oriented Design and Analysis, 2001

Adaptive Radar Detection: Model-Based, Data-Driven and Hybrid Approaches Angelo Coluccia, 2022-11-30 This book shows you how to adopt data driven techniques for the problem of radar detection both per se and in combination with model based approaches In particular the focus is on space time adaptive target detection against a background of interference consisting of clutter possible jammers and noise It is a handy concise reference for many classic model based adaptive radar detection schemes as well as the most popular machine learning techniques including deep neural networks and helps you identify suitable data driven approaches for radar detection and the main related issues You ll learn how data driven tools relate to and can be coupled or hybridized with traditional adaptive detection statistics understand fundamental concepts schemes and algorithms from statistical learning classification and neural networks domains The book also walks you through how these concepts and schemes have been adapted for the problem of radar detection in the literature and provides you with a methodological guide for the design illustrating different possible

strategies You ll be equipped to develop a unified view under which you can exploit the new possibilities of the data driven approach even using simulated data This book is an excellent resource for Radar professionals and industrial researchers postgraduate students in electrical engineering and the academic community

Response Surface Methodology and Related Topics Andr  I. Khuri,2006 This is the first edited volume on response surface methodology RSM It contains 17 chapters written by leading experts in the field and covers a wide variety of topics ranging from areas in classical RSM to more recent modeling approaches within the framework of RSM including the use of generalized linear models Topics covering particular aspects of robust parameter design response surface optimization mixture experiments and a variety of new graphical approaches in RSM are also included The main purpose of this volume is to provide an overview of the key ideas that have shaped RSM and to bring attention to recent research directions and developments in RSM which can have many useful applications in a variety of fields The volume will be very helpful to researchers as well as practitioners interested in RSM s theory and potential applications It will be particularly useful to individuals who have used RSM methods in the past but have not kept up with its recent developments both in theory and applications

Mixture Model-Based Classification Paul D. McNicholas,2016-10-04 This is a great overview of the field of model based clustering and classification by one of its leading developers McNicholas provides a resource that I am certain will be used by researchers in statistics and related disciplines for quite some time The discussion of mixtures with heavy tails and asymmetric distributions will place this text as the authoritative modern reference in the mixture modeling literature Douglas Steinley University of Missouri Mixture Model Based Classification is the first monograph devoted to mixture model based approaches to clustering and classification This is both a book for established researchers and newcomers to the field A history of mixture models as a tool for classification is provided and Gaussian mixtures are considered extensively including mixtures of factor analyzers and other approaches for high dimensional data Non Gaussian mixtures are considered from mixtures with components that parameterize skewness and or concentration right up to mixtures of multiple scaled distributions Several other important topics are considered including mixture approaches for clustering and classification of longitudinal data as well as discussion about how to define a cluster Paul D McNicholas is the Canada Research Chair in Computational Statistics at McMaster University where he is a Professor in the Department of Mathematics and Statistics His research focuses on the use of mixture model based approaches for classification with particular attention to clustering applications and he has published extensively within the field He is an associate editor for several journals and has served as a guest editor for a number of special issues on mixture models

Functional Approach to Optimal Experimental Design Viatcheslav B. Melas,2006-04-20 The present book is devoted to studying optimal experimental designs for a wide class of linear and nonlinear regression models This class includes polynomial trigonometrical rational and exponential models as well as many particular models used in ecology and microbiology As the criteria of optimality the well known D E and c criteria are

implemented The main idea of the book is to study the dependence of optimal signs on values of unknown parameters and on the bounds of the design interval Such a study can be performed on the base of the Implicit Function Theorem the classical result of functional analysis The idea was first introduced in the author's paper Melas 1978 for nonlinear in parameters exponential models Recently it was developed for other models in a number of works Melas 1995 2000 2001 2004 2005 Dette Melas 2002 2003 Dette Melas Pepelyshev 2002 2003 2004b and Dette Melas Biederman 2002

The purpose of the present book is to bring together the results obtained and to develop further underlying concepts and tools The approach mentioned above will be called the functional approach Its brief description can be found in the Introduction The book contains eight chapters The first chapter introduces basic concepts and results of optimal design theory initiated mainly by J Kiefer **Optimal Measurement Methods for Distributed Parameter System Identification** Dariusz

Uciniski, 2004-08-27 For dynamic distributed systems modeled by partial differential equations existing methods of sensor location in parameter estimation experiments are either limited to one dimensional spatial domains or require large investments in software systems With the expense of scanning and moving sensors optimal placement presents a critical problem Model-Checking Based Data Retrieval Elisa Quintarelli, 2004-02-06 This book is devoted to the study of the

semantics and assuring the efficient execution of database query languages where the database contains semistructured and time varying information The primary focus of the work presented is the definition of an effective graph based approach to the formalization of query languages for semistructured and temporal information as a result query execution can be reduced to searching the database for subgraphs that are similar to the given query graph and thus can be supported through bisimulation By integrating and refining graph based methods and bisimulation the author develops a powerful and flexible paradigm The second research challenge solved is that of efficient implementation by modeling graphical queries as formulas in modal logic and interpreting database instance graphs as Kripke transition systems *Optimal Design and Related Areas in Optimization and Statistics* Luc Pronzato, Anatoly Zhigljavsky, 2010-07-25 The present volume is a collective monograph devoted to applications of the optimal design theory in optimization and statistics The chapters reflect the topics discussed at the workshop W Optimum Design and Related Statistical Issues that took place in Juan les Pins France in May 2005 The title of the workshop was chosen as a light hearted celebration of the work of Henry Wynn It was supported by the Laboratoire

I3S CNRS Universit e de Nice Sophia Antipolis to which Henry is a frequent visitor The topics covered partly reflect the wide spectrum of Henry's research interests Algorithms for constructing optimal designs are discussed in Chap 1 where Henry's contribution to the field is acknowledged Steepest ascent algorithms used to construct optimal designs are very much related to general gradient algorithms for convex optimization In the last ten years a significant part of Henry's research was devoted to the study of the asymptotic properties of such algorithms This topic is covered by Chaps 2 and 3 The work by Alessandra Giovagnoli concentrates on the use of majorization and stochastic ordering and Chap 4 is a hopeful renewal of their

collaboration One of Henry's major recent interests is what is now called algebraic statistics the application of computational commutative algebra to statistics and he was partly responsible for introducing the experimental design sub area reviewed in Chap 5 One other sub area is the application to Bayesian networks and Chap 6 covers this with Chap 7 being strongly related

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Model Oriented Data Analysis**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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