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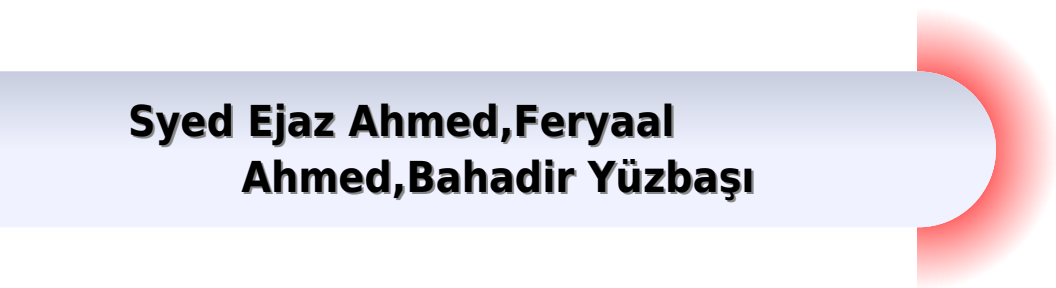
Statistics for High-Dimensional Data

Methods, Theory and Applications

 Springer

Statistics For High Dimensional Data Methods Theory And Applications

**Syed Ejaz Ahmed, Feryaal
Ahmed, Bahadır Yüzbaşı**



Statistics For High Dimensional Data Methods Theory And Applications:

Statistics for High-Dimensional Data Peter Bühlmann, Sara van de Geer, 2011-06-08 Modern statistics deals with large and complex data sets and consequently with models containing a large number of parameters This book presents a detailed account of recently developed approaches including the Lasso and versions of it for various models boosting methods undirected graphical modeling and procedures controlling false positive selections A special characteristic of the book is that it contains comprehensive mathematical theory on high dimensional statistics combined with methodology algorithms and illustrations with real data examples This in depth approach highlights the methods great potential and practical applicability in a variety of settings As such it is a valuable resource for researchers graduate students and experts in statistics applied mathematics and computer science

Statistics for High-Dimensional Data Peter Bühlmann, Sara van de Geer, 2011-08-26 Modern statistics deals with large and complex data sets and consequently with models containing a large number of parameters This book presents a detailed account of recently developed approaches including the Lasso and versions of it for various models boosting methods undirected graphical modeling and procedures controlling false positive selections A special characteristic of the book is that it contains comprehensive mathematical theory on high dimensional statistics combined with methodology algorithms and illustrations with real data examples This in depth approach highlights the methods great potential and practical applicability in a variety of settings As such it is a valuable resource for researchers graduate students and experts in statistics applied mathematics and computer science

Statistical Analysis for High-Dimensional Data Arnoldo Frigessi, Peter Bühlmann, Ingrid Glad, Mette Langaas, Sylvia Richardson, Marina Vannucci, 2016-02-16 This book features research contributions from The Abel Symposium on Statistical Analysis for High Dimensional Data held in Nyv gar Lofoten Norway in May 2014 The focus of the symposium was on statistical and machine learning methodologies specifically developed for inference in big data situations with particular reference to genomic applications The contributors who are among the most prominent researchers on the theory of statistics for high dimensional inference present new theories and methods as well as challenging applications and computational solutions Specific themes include among others variable selection and screening penalised regression sparsity thresholding low dimensional structures computational challenges non convex situations learning graphical models sparse covariance and precision matrices semi and non parametric formulations multiple testing classification factor models clustering and preselection Highlighting cutting edge research and casting light on future research directions the contributions will benefit graduate students and researchers in computational biology statistics and the machine learning community

Introduction to High-Dimensional Statistics Christophe Giraud, 2014-12-17 Ever greater computing technologies have given rise to an exponentially growing volume of data Today massive data sets with potentially thousands of variables play an important role in almost every branch of modern human activity including networks finance and genetics However analyzing such data has presented a challenge

for statisticians Handbook of Big Data Peter Bühlmann, Petros Drineas, Michael Kane, Mark van der Laan, 2016-02-22 Handbook of Big Data provides a state of the art overview of the analysis of large scale datasets Featuring contributions from well known experts in statistics and computer science this handbook presents a carefully curated collection of techniques from both industry and academia Thus the text instills a working understanding of key statistical *High-Dimensional Probability* Roman Vershynin, 2018-09-27 High dimensional probability offers insight into the behavior of random vectors random matrices random subspaces and objects used to quantify uncertainty in high dimensions Drawing on ideas from probability analysis and geometry it lends itself to applications in mathematics statistics theoretical computer science signal processing optimization and more It is the first to integrate theory key tools and modern applications of high dimensional probability Concentration inequalities form the core and it covers both classical results such as Hoeffding's and Chernoff's inequalities and modern developments such as the matrix Bernstein's inequality It then introduces the powerful methods based on stochastic processes including such tools as Slepian's Sudakov's and Dudley's inequalities as well as generic chaining and bounds based on VC dimension A broad range of illustrations is embedded throughout including classical and modern results for covariance estimation clustering networks semidefinite programming coding dimension reduction matrix completion machine learning compressed sensing and sparse regression **Post-Shrinkage Strategies in Statistical and Machine Learning for High Dimensional Data** Syed Ejaz Ahmed, Feryaal Ahmed, Bahadır Yüzbaşı, 2023-05-25 This book presents some post estimation and predictions strategies for the host of useful statistical models with applications in data science It combines statistical learning and machine learning techniques in a unique and optimal way It is well known that machine learning methods are subject to many issues relating to bias and consequently the mean squared error and prediction error may explode For this reason we suggest shrinkage strategies to control the bias by combining a submodel selected by a penalized method with a model with many features Further the suggested shrinkage methodology can be successfully implemented for high dimensional data analysis Many researchers in statistics and medical sciences work with big data They need to analyse this data through statistical modelling Estimating the model parameters accurately is an important part of the data analysis This book may be a repository for developing improve estimation strategies for statisticians This book will help researchers and practitioners for their teaching and advanced research and is an excellent textbook for advanced undergraduate and graduate courses involving shrinkage statistical and machine learning The book succinctly reveals the bias inherited in machine learning method and successfully provides tools tricks and tips to deal with the bias issue Expertly sheds light on the fundamental reasoning for model selection and post estimation using shrinkage and related strategies This presentation is fundamental because shrinkage and other methods appropriate for model selection and estimation problems and there is a growing interest in this area to fill the gap between competitive strategies Application of these strategies to real life data set from many walks of life Analytical results are fully corroborated by numerical work

and numerous worked examples are included in each chapter with numerous graphs for data visualization The presentation and style of the book clearly makes it accessible to a broad audience It offers rich concise expositions of each strategy and clearly describes how to use each estimation strategy for the problem at hand This book emphasizes that statistics statisticians can play a dominant role in solving Big Data problems and will put them on the precipice of scientific discovery The book contributes novel methodologies for HDDA and will open a door for continued research in this hot area The practical impact of the proposed work stems from wide applications The developed computational packages will aid in analyzing a broad range of applications in many walks of life Robust and Multivariate Statistical Methods Mengxi

Yi,Klaus Nordhausen,2023-04-19 This book presents recent developments in multivariate and robust statistical methods Featuring contributions by leading experts in the field it covers various topics including multivariate and high dimensional methods time series graphical models robust estimation supervised learning and normal extremes It will appeal to statistics and data science researchers PhD students and practitioners who are interested in modern multivariate and robust statistics The book is dedicated to David E Tyler on the occasion of his pending retirement and also includes a review contribution on the popular Tyler s shape matrix **Big Data in Complex Systems** Aboul Ella Hassanien,Ahmad Taher Azar,Vaclav Snasael,Janusz Kacprzyk,Jemal H. Abawajy,2015-01-02 This volume provides challenges and Opportunities with updated in depth material on the application of Big data to complex systems in order to find solutions for the challenges and problems facing big data sets applications Much data today is not natively in structured format for example tweets and blogs are weakly structured pieces of text while images and video are structured for storage and display but not for semantic content and search Therefore transforming such content into a structured format for later analysis is a major challenge Data analysis organization retrieval and modeling are other foundational challenges treated in this book The material of this book will be useful for researchers and practitioners in the field of big data as well as advanced undergraduate and graduate students Each of the 17 chapters in the book opens with a chapter abstract and key terms list The chapters are organized along the lines of problem description related works and analysis of the results and comparisons are provided whenever feasible

Macroeconomic Forecasting in the Era of Big Data Peter Fuleky,2019-11-28 This book surveys big data tools used in macroeconomic forecasting and addresses related econometric issues including how to capture dynamic relationships among variables how to select parsimonious models how to deal with model uncertainty instability non stationarity and mixed frequency data and how to evaluate forecasts among others Each chapter is self contained with references and provides solid background information while also reviewing the latest advances in the field Accordingly the book offers a valuable resource for researchers professional forecasters and students of quantitative economics *Fundamentals of Supervised Machine Learning* Giovanni Cerulli,2023-11-14 This book presents the fundamental theoretical notions of supervised machine learning along with a wide range of applications using Python R and Stata It provides a balance between theory and applications and

fosters an understanding and awareness of the availability of machine learning methods over different software platforms After introducing the machine learning basics the focus turns to a broad spectrum of topics model selection and regularization discriminant analysis nearest neighbors support vector machines tree modeling artificial neural networks deep learning and sentiment analysis Each chapter is self contained and comprises an initial theoretical part where the basics of the methodologies are explained followed by an applicative part where the methods are applied to real world datasets Numerous examples are included and for ease of reproducibility the Python R and Stata codes used in the text along with the related datasets are available online The intended audience is PhD students researchers and practitioners from various disciplines including economics and other social sciences medicine and epidemiology who have a good understanding of basic statistics and a working knowledge of statistical software and who want to apply machine learning methods in their work

Handbook of Big Data Analytics Wolfgang Karl Härdle, Henry Horng-Shing Lu, Xiaotong Shen, 2018-07-20

Addressing a broad range of big data analytics in cross disciplinary applications this essential handbook focuses on the statistical prospects offered by recent developments in this field To do so it covers statistical methods for high dimensional problems algorithmic designs computation tools analysis flows and the software hardware co designs that are needed to support insightful discoveries from big data The book is primarily intended for statisticians computer experts engineers and application developers interested in using big data analytics with statistics Readers should have a solid background in statistics and computer science

Encyclopedia of Business Analytics and Optimization Wang, John, 2014-02-28 As the age of Big Data emerges it becomes necessary to take the five dimensions of Big Data volume variety velocity volatility and veracity and focus these dimensions towards one critical emphasis value The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management data visualization interdisciplinary communication and others Through its critical approach and practical application this book will be a must have reference for any professional leader analyst or manager interested in making the most of the knowledge resources at their disposal

Statistical Foundations of Data Science Jianqing Fan, Runze Li, Cun-Hui Zhang, Hui Zou, 2020-09-20

Statistical Foundations of Data Science gives a thorough introduction to commonly used statistical models contemporary statistical machine learning techniques and algorithms along with their mathematical insights and statistical theories It aims to serve as a graduate level textbook and a research monograph on high dimensional statistics sparsity and covariance learning machine learning and statistical inference It includes ample exercises that involve both theoretical studies as well as empirical applications The book begins with an introduction to the stylized features of big data and their impacts on statistical analysis It then introduces multiple linear regression and expands the techniques of model building via nonparametric regression and kernel tricks It provides a comprehensive account on sparsity explorations and model selections for multiple regression generalized linear models quantile regression robust regression

hazards regression among others High dimensional inference is also thoroughly addressed and so is feature screening The book also provides a comprehensive account on high dimensional covariance estimation learning latent factors and hidden structures as well as their applications to statistical estimation inference prediction and machine learning problems It also introduces thoroughly statistical machine learning theory and methods for classification clustering and prediction These include CART random forests boosting support vector machines clustering algorithms sparse PCA and deep learning

Advances in Data Mining. Applications and Theoretical Aspects Petra Perner, 2017-06-30 This book constitutes the refereed proceedings of the 17th Industrial Conference on Advances in Data Mining ICDM 2017 held in New York NY USA in July 2017 The 27 revised full papers presented were carefully reviewed and selected from 71 submissions The topics range from theoretical aspects of data mining to applications of data mining such as in multimedia data in marketing in medicine and in process control in industry and society

New Frontiers of Biostatistics and Bioinformatics Yichuan Zhao, Ding-Geng Chen, 2018-12-05 This book is comprised of presentations delivered at the 5th Workshop on Biostatistics and Bioinformatics held in Atlanta on May 5 7 2017 Featuring twenty two selected papers from the workshop this book showcases the most current advances in the field presenting new methods theories and case applications at the frontiers of biostatistics bioinformatics and interdisciplinary areas Biostatistics and bioinformatics have been playing a key role in statistics and other scientific research fields in recent years The goal of the 5th Workshop on Biostatistics and Bioinformatics was to stimulate research foster interaction among researchers in field and offer opportunities for learning and facilitating research collaborations in the era of big data The resulting volume offers timely insights for researchers students and industry practitioners

Big Data Analytics in Chemoinformatics and Bioinformatics Subhash C. Basak, Marjan Vračko, 2022-12-06 Big Data Analytics in Chemoinformatics and Bioinformatics With Applications to Computer Aided Drug Design Cancer Biology Emerging Pathogens and Computational Toxicology provides an up to date presentation of big data analytics methods and their applications in diverse fields The proper management of big data for decision making in scientific and social issues is of paramount importance This book gives researchers the tools they need to solve big data problems in these fields It begins with a section on general topics that all readers will find useful and continues with specific sections covering a range of interdisciplinary applications Here an international team of leading experts review their respective fields and present their latest research findings with case studies used throughout to analyze and present key information Brings together the current knowledge on the most important aspects of big data including analysis using deep learning and fuzzy logic transparency and data protection disparate data analytics and scalability of the big data domain Covers many applications of big data analysis in diverse fields such as chemistry chemoinformatics bioinformatics computer assisted drug vaccine design characterization of emerging pathogens and environmental protection Highlights the considerable benefits offered by big data analytics to science in biomedical fields and in industry

Modeling and

Stochastic Learning for Forecasting in High Dimensions Anestis Antoniadis, Jean-Michel Poggi, Xavier

Brossat, 2015-06-04 The chapters in this volume stress the need for advances in theoretical understanding to go hand in hand with the widespread practical application of forecasting in industry Forecasting and time series prediction have enjoyed considerable attention over the last few decades fostered by impressive advances in observational capabilities and measurement procedures On June 5 7 2013 an international Workshop on Industry Practices for Forecasting was held in Paris France organized and supported by the OSIRIS Department of Electricit de France Research and Development Division In keeping with tradition both theoretical statistical results and practical contributions on this active field of statistical research and on forecasting issues in a rapidly evolving industrial environment are presented The volume reflects the broad spectrum of the conference including 16 articles contributed by specialists in various areas The material compiled is broad in scope and ranges from new findings on forecasting in industry and in time series on nonparametric and functional methods and on on line machine learning for forecasting to the latest developments in tools for high dimension and complex data analysis

The Wiley Handbook of Psychometric Testing Paul Irwing, Tom Booth, David J. Hughes, 2018-02-12 A must have resource for researchers practitioners and advanced students interested or involved in psychometric testing Over the past hundred years psychometric testing has proved to be a valuable tool for measuring personality mental ability attitudes and much more The word psychometrics can be translated as mental measurement however the implication that psychometrics as a field is confined to psychology is highly misleading Scientists and practitioners from virtually every conceivable discipline now use and analyze data collected from questionnaires scales and tests developed from psychometric principles and the field is vibrant with new and useful methods and approaches This handbook brings together contributions from leading psychometricians in a diverse array of fields around the globe Each provides accessible and practical information about their specialist area in a three step format covering historical and standard approaches innovative issues and techniques and practical guidance on how to apply the methods discussed Throughout real world examples help to illustrate and clarify key aspects of the topics covered The aim is to fill a gap for information about psychometric testing that is neither too basic nor too technical and specialized and will enable researchers practitioners and graduate students to expand their knowledge and skills in the area Provides comprehensive coverage of the field of psychometric testing from designing a test through writing items to constructing and evaluating scales Takes a practical approach addressing real issues faced by practitioners and researchers Provides basic and accessible mathematical and statistical foundations of all psychometric techniques discussed Provides example software code to help readers implement the analyses discussed

Proceedings of the 3rd International Conference on Sensing, Measurement, Communication and Internet of Things Technologies Peiquan Jin, Zhenyu Zhao, 2025-09-30 This book showcases the latest advancements in Sensing Measurement Communication and Internet of Things IoT technologies This comprehensive collection includes invited

contributions and extended research papers that have been presented and discussed on a global scale The proceedings aim to provide a broad perspective featuring robust discussions and in depth studies They cater to a diverse audience of academic researchers industry experts innovative thinkers scholars professionals and technologists from around the world who are actively engaged in the fields of sensing technologies measurement methodologies communication systems and the Internet of Things

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