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Statistics for High-Dimensional Data

Methods, Theory and Applications

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Statistics For High Dimensional Data Methods Theory And Applications

Petra Perner

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Statistical Analysis for High-Dimensional Data Arnaldo 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

Fundamentals of High-Dimensional Statistics Johannes Lederer, 2021-11-16 This textbook provides a step by step introduction to the tools and principles of high dimensional statistics Each chapter is complemented by numerous exercises many of them with detailed solutions and computer labs in R that convey valuable practical insights The book covers the theory and practice of high dimensional linear

regression graphical models and inference ensuring readers have a smooth start in the field It also offers suggestions for further reading Given its scope the textbook is intended for beginning graduate and advanced undergraduate students in statistics biostatistics and bioinformatics though it will be equally useful to a broader audience 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 **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

Matrices, Statistics and Big Data S. Ejaz Ahmed,Francisco Carvalho,Simo Puntanen,2019-08-02 This volume features selected refereed papers on various aspects of statistics matrix theory and its applications to statistics as well as related numerical linear algebra topics and numerical solution methods which are relevant for problems arising in statistics and in big data The contributions were originally presented at the 25th International Workshop on Matrices and Statistics IWMS 2016 held in Funchal Madeira Portugal on June 6 9 2016 The IWMS workshop series brings together statisticians computer scientists data scientists and mathematicians helping them better understand each other s tools and fostering new collaborations at the interface of matrix theory and statistics Handbook Of Medical Statistics Ji-qian Fang,2017-07-28

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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

High-Dimensional Probability

Roman Vershynin, 2018-09-27 An integrated package of powerful probabilistic tools and key applications in modern mathematical data science *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

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

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

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

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

High-Dimensional Statistics Martin J. Wainwright, 2019-02-21 A coherent introductory text from a groundbreaking researcher focusing on clarity and motivation to build intuition and understanding *Computational and Methodological Statistics and Biostatistics* Andriëtte Bekker, (Din) Ding-Geng Chen, Johannes T. Ferreira, 2020-08-10 In the statistical domain certain topics have received considerable attention during the last decade or so necessitated by the growth and evolution of data and theoretical challenges This growth has invariably been accompanied by computational advancement which has presented end users as well as researchers with the necessary opportunities to handle data and implement modelling solutions for statistical purposes Showcasing the interplay among a variety of disciplines this book offers pioneering theoretical and applied solutions to practice oriented problems As a carefully curated collection of prominent international thought leaders it fosters collaboration between statisticians and biostatisticians and provides an array of thought processes and tools to its readers The book thereby creates an understanding and appreciation of recent developments as well as an implementation of these contributions within the broader framework of both academia and industry *Computational and Methodological Statistics and Biostatistics* is composed of three main themes Recent developments in theory and applications of statistical distributions Recent developments in supervised and unsupervised modelling Recent developments in biostatistics and also features programming code and accompanying algorithms to enable readers to replicate and implement methodologies Therefore this monograph provides a concise point of reference for a variety of current trends and topics within the statistical domain With interdisciplinary appeal it will be useful to researchers graduate students and practitioners in statistics biostatistics clinical methodology geology data science and actuarial science amongst others *Statistical and Computational Methods for Microbiome Multi-Omics Data* Himel Mallick, Vanni Bucci, Lingling An, 2020-11-19 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

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 *Cyber-Physical Systems: Advances in Design & Modelling* Alla G.

Kravets, Alexander A. Bolshakov, Maxim V. Shcherbakov, 2019-11-25 This book presents new findings on cyber physical

systems design and modelling approaches based on AI and data driven techniques identifying the key industrial challenges and the main features of design and modelling processes To enhance the efficiency of the design process it proposes new approaches based on the concept of digital twins Further it substantiates the scientific practical and methodological approaches to modelling and simulating of cyber physical systems Exploring digital twins of cyber physical systems as well as of production systems it proposes combining both mathematical models and data processing techniques as advanced methods for cyber physical system design and modelling Moreover it presents the implementation of the developed prototypes including testing in real industries which have collected and analyzed big data and proved their effectiveness The book is intended for practitioners enterprise representatives scientists and Ph D and master s students interested in the research and applications of cyber physical systems in different domains

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