### Wiley Series in Probability and Statistics

## High-Dimensional Covariance Estimation



Mohsen Pourahmadi



Ngoc Thanh Nguyen,Ryszard Kowalczyk,Jaap van den Herik,Ana Paula Rocha,Joaquim Filipe

High-Dimensional Covariance Estimation Mohsen Pourahmadi, 2013-05-28 Methods for estimating sparse and large covariance matrices Covariance and correlation matrices play fundamental roles in every aspect of the analysis of multivariate data collected from a variety of fields including business and economics health care engineering and environmental and physical sciences High Dimensional Covariance Estimation provides accessible and comprehensive coverage of the classical and modern approaches for estimating covariance matrices as well as their applications to the rapidly developing areas lying at the intersection of statistics and machine learning Recently the classical sample covariance methodologies have been modified and improved upon to meet the needs of statisticians and researchers dealing with large correlated datasets High Dimensional Covariance Estimation focuses on the methodologies based on shrinkage thresholding and penalized likelihood with applications to Gaussian graphical models prediction and mean variance portfolio management The book relies heavily on regression based ideas and interpretations to connect and unify many existing methods and algorithms for the task High Dimensional Covariance Estimation features chapters on Data Sparsity and Regularization Regularizing the Eigenstructure Banding Tapering and Thresholding Covariance Matrices Sparse Gaussian Graphical Models Multivariate Regression The book is an ideal resource for researchers in statistics mathematics business and economics computer sciences and engineering as well as a useful text or supplement for graduate level courses in multivariate analysis covariance estimation statistical learning and high dimensional data analysis High-Dimensional Covariance Matrix Estimation Aygul Zagidullina, 2021-10-29 This book presents covariance matrix estimation and related aspects of random matrix theory It focuses on the sample covariance matrix estimator and provides a holistic description of its properties under two asymptotic regimes the traditional one and the high dimensional regime that better fits the big data context It draws attention to the deficiencies of standard statistical tools when used in the high dimensional setting and introduces the basic concepts and major results related to spectral statistics and random matrix theory under high dimensional asymptotics in an understandable and reader friendly way The aim of this book is to inspire applied statisticians econometricians and machine learning practitioners who analyze high dimensional data to apply the recent developments in their work

High-dimensional Data Analysis Tony Cai; Xiaotong Shen, Tony Cai, Over the last few years significant developments have been taking place in highdimensional data analysis driven primarily by a wide range of applications in many fields such as genomics and signal processing In particular substantial advances have been made in the areas of feature selection covariance estimation classification and regression This book intends to examine important issues arising from highdimensional data analysis to explore key ideas for statistical inference and prediction It is structured around topics on multiple hypothesis testing feature selection regression cla Statistical Intervals William Q. Meeker, Gerald J. Hahn, Luis A. Escobar, 2017-04-10 Describes statistical intervals to quantify sampling uncertainty focusing on key application needs and

recently developed methodology in an easy to apply format Statistical intervals provide invaluable tools for quantifying sampling uncertainty The widely hailed first edition published in 1991 described the use and construction of the most important statistical intervals Particular emphasis was given to intervals such as prediction intervals tolerance intervals and confidence intervals on distribution quantiles frequently needed in practice but often neglected in introductory courses Vastly improved computer capabilities over the past 25 years have resulted in an explosion of the tools readily available to analysts This second edition more than double the size of the first adds these new methods in an easy to apply format In addition to extensive updating of the original chapters the second edition includes new chapters on Likelihood based statistical intervals Nonparametric bootstrap intervals Parametric bootstrap and other simulation based intervals An introduction to Bayesian intervals Bayesian intervals for the popular binomial Poisson and normal distributions Statistical intervals for Bayesian hierarchical models Advanced case studies further illustrating the use of the newly described methods New technical appendices provide justification of the methods and pathways to extensions and further applications A webpage directs readers to current readily accessible computer software and other useful information Statistical Intervals A Guide for Practitioners and Researchers Second Edition is an up to date working guide and reference for all who analyze data allowing them to quantify the uncertainty in their results using statistical intervals **Sparse Graphical Modeling for High Dimensional Data** Faming Liang, Bochao Jia, 2023-08-02 This book provides a general framework for learning sparse graphical models with conditional independence tests It includes complete treatments for Gaussian Poisson multinomial and mixed data unified treatments for covariate adjustments data integration and network comparison unified treatments for missing data and heterogeneous data efficient methods for joint estimation of multiple graphical models effective methods of high dimensional variable selection and effective methods of high dimensional inference The methods possess an embarrassingly parallel structure in performing conditional independence tests and the computation can be significantly accelerated by running in parallel on a multi core computer or a parallel architecture This book is intended to serve researchers and scientists interested in high dimensional statistics and graduate students in broad data science disciplines Key Features A general framework for learning sparse graphical models with conditional independence tests Complete treatments for different types of data Gaussian Poisson multinomial and mixed data Unified treatments for data integration network comparison and covariate adjustment Unified treatments for missing data and heterogeneous data Efficient methods for joint estimation of multiple graphical models Effective methods of high dimensional variable selection Effective methods of high dimensional inference Big and Complex Data Analysis S. Ejaz Ahmed, 2017-03-21 This volume conveys some of the surprises puzzles and success stories in high dimensional and complex data analysis and related fields Its peer reviewed contributions showcase recent advances in variable selection estimation and prediction strategies for a host of useful models as well as essential new developments in the field The continued and rapid advancement of modern technology now allows

scientists to collect data of increasingly unprecedented size and complexity Examples include epigenomic data genomic data proteomic data high resolution image data high frequency financial data functional and longitudinal data and network data Simultaneous variable selection and estimation is one of the key statistical problems involved in analyzing such big and complex data The purpose of this book is to stimulate research and foster interaction between researchers in the area of high dimensional data analysis More concretely its goals are to 1 highlight and expand the breadth of existing methods in big data and high dimensional data analysis and their potential for the advancement of both the mathematical and statistical sciences 2 identify important directions for future research in the theory of regularization methods in algorithmic development and in methodologies for different application areas and 3 facilitate collaboration between theoretical and subject specific researchers 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 Contemporary Experimental Design, Multivariate Analysis and Data Mining Jianging Fan, Jianxin Pan, 2020-05-22 The collection and analysis of data play an important role in many fields of science and technology such as computational biology quantitative finance information engineering machine learning neuroscience medicine and the social sciences Especially in the era of big data researchers can easily collect data characterised by massive dimensions and complexity In celebration of Professor Kai Tai Fang s 80th birthday we present this book which furthers new and exciting developments in modern statistical theories methods and applications The book features four review papers on Professor Fang's numerous contributions to the fields of experimental design multivariate analysis data mining and education It also contains twenty research articles contributed by prominent and active figures in their fields. The articles cover a wide range of important topics such as experimental design multivariate analysis data mining hypothesis testing and statistical models Transactions on Computational Collective Intelligence XXVIII Ngoc Thanh Nguyen, Ryszard Kowalczyk, Jaap van den Herik, Ana Paula Rocha, Joaquim Filipe, 2018-05-01 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to

support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty eight issue is a special issue with 11 selected papers from the International Conference on Agents and Artificial Intelligence ICAART 2016 and 2017 editions New Perspectives and Challenges in Econophysics and Sociophysics Frédéric Abergel, Bikas K. Chakrabarti, Anirban Chakraborti, Nivedita Deo, Kiran Sharma, 2019-04-02 This book presents the latest perspectives and challenges within the interrelated fields of econophysics and sociophysics which have emerged from the application of statistical physics to economics and sociology Economic and financial markets appear to be in a permanent state of flux Billions of agents interact with each other giving rise to complex dynamics of economic quantities at the micro and macro levels With the availability of huge data sets researchers can address questions at a much more granular level than was previously possible Fundamental questions regarding the aggregation of actions and information and the coordination complexity and evolution of economic and financial networks are currently receiving much attention in the econophysics research agenda In parallel the sociophysics literature has focused on large scale social data and their interrelations In this book leading researchers from different communities economists sociologists financial analysts mathematicians physicists statisticians and others report on their recent work and their analyses of economic and social Large Covariance and Autocovariance Matrices Arup Bose, Monika Bhattacharjee, 2018-07-03 Estimation of behavior large dispersion and autocovariance matrices using banding and tapering Joint convergence of high dimensional generalized dispersion matrices Limiting spectral distribution of symmetric polynomials in sample autocovariance matrices and normality of traces Application of free probability in high dimensional time series Estimation of coefficient matrices in high dimensional autoregressive process Smart Grid using Big Data Analytics Robert C. Qiu, Paul Antonik, 2017-01-23 This book is aimed at students in communications and signal processing who want to extend their skills in the energy area It describes power systems and why these backgrounds are so useful to smart grid wireless communications being very different to traditional wireline communications Statistical Applications from Clinical Trials and Personalized Medicine to Finance and Business Analytics Jianchang Lin, Bushi Wang, Xiaowen Hu, Kun Chen, Ray Liu, 2016-11-13 The papers in this volume represent a broad applied swath of advanced contributions to the 2015 ICSA Graybill Applied Statistics Symposium of the International Chinese Statistical Association held at Colorado State University in Fort Collins The contributions cover topics that range from statistical applications in business and finance to applications in clinical trials and biomarker analysis Each papers was peer reviewed by at least two referees and also by an editor The conference was attended by over 400 participants from academia industry and government agencies around the world including from North America Asia and Financial Signal Processing and Machine Learning Ali N. Akansu, Sanjeev R. Kulkarni, Dmitry M. Europe Malioutov, 2016-04-20 The modern financial industry has been required to deal with large and diverse portfolios in a variety of asset classes often with limited market data available Financial Signal Processing and Machine Learning unifies a number

of recent advances made in signal processing and machine learning for the design and management of investment portfolios and financial engineering This book bridges the gap between these disciplines offering the latest information on key topics including characterizing statistical dependence and correlation in high dimensions constructing effective and robust risk measures and their use in portfolio optimization and rebalancing The book focuses on signal processing approaches to model return momentum and mean reversion addressing theoretical and implementation aspects It highlights the connections between portfolio theory sparse learning and compressed sensing sparse eigen portfolios robust optimization non Gaussian data driven risk measures graphical models causal analysis through temporal causal modeling and large scale copula based approaches Key features Highlights signal processing and machine learning as key approaches to quantitative finance Offers advanced mathematical tools for high dimensional portfolio construction monitoring and post trade analysis problems Presents portfolio theory sparse learning and compressed sensing sparsity methods for investment portfolios including eigen portfolios model return momentum mean reversion and non Gaussian data driven risk measures with real world applications of these techniques Includes contributions from leading researchers and practitioners in both the signal and information processing communities and the quantitative finance community Data Science Francesco Palumbo, Angela Montanari, Maurizio Vichi, 2017-07-04 This edited volume on the latest advances in data science covers a wide range of topics in the context of data analysis and classification In particular it includes contributions on classification methods for high dimensional data clustering methods multivariate statistical methods and various applications. The book gathers a selection of peer reviewed contributions presented at the Fifteenth Conference of the International Federation of Classification Societies IFCS2015 which was hosted by the Alma Mater Studiorum University of Bologna from July 5 to 8 2015 **Bulletin MLSA** University of Michigan. College of Literature, Science, and the Arts, 2009 Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing Roger Lee, 2016-05-05 This edited book presents scientific results of the 17th IEEE ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2016 which was held on May 30 June 1 2016 in Shanghai China The aim of this conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way Research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them Cognitive Networked Sensing and Big Data Robert Qiu, Michael Wicks, 2013-08-04 Wireless Distributed Computing and Cognitive Sensing defines high dimensional data processing in the context of wireless distributed computing and cognitive sensing This book presents the challenges that are unique to this area such as synchronization caused by the high mobility of the nodes The author will discuss the integration of software defined radio implementation and testbed development The book will also

bridge new research results and contextual reviews Also the author provides an examination of large cognitive radio network hardware testbed distributed sensing and distributed computing Recent Advances in Computational Optimization Stefka Fidanova, 2016-07-15 This volume is a comprehensive collection of extended contributions from the Workshop on Computational Optimization 2015 It presents recent advances in computational optimization The volume includes important real life problems like parameter settings for controlling processes in bioreactor control of ethanol production minimal convex hill with application in routing algorithms graph coloring flow design in photonic data transport system predicting indoor temperature crisis control center monitoring fuel consumption of helicopters portfolio selection GPS surveying and so on It shows how to develop algorithms for them based on new metaheuristic methods like evolutionary computation ant colony optimization constrain programming and others This research demonstrates how some real world problems arising in engineering economics medicine and other domains can be formulated as optimization problems **Recent Advances in** Econometrics and Statistics Matteo Barigozzi, Siegfried Hörmann, Davy Paindaveine, 2024-10-28 This volume presents a unique collection of original research contributions by leading experts in several modern fields of econometrics and statistics including high dimensional nonparametric and robust statistics time series analysis and factor models Published in honour of Marc Hallin on the occasion of his 75th birthday it puts emphasis on the fundamental and applied topics he has significantly contributed to The volume starts with an annotated bibliography that mainly catalogues his contributions to distribution free rank based and quantile oriented inference and to time series analysis The main part of the book collects 29 authoritative contributions by some of Marc Hallin's main collaborators organized into six parts rank and depth based methods asymptotic statistics quantile regression econometrics statistical modelling and related topics and high dimensional and non Euclidean data

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