Cambridge Series in Statistical and Probabilistic Wathematics

Mathematical Foundations of Infinite-Dimensional Statistical Models

Evarist Giné Richard Nickl

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Mathematical Foundations of Infinite-Dimensional Statistical Models Evarist Giné, Richard Nickl, 2021-03-25 In nonparametric and high dimensional statistical models the classical Gauss Fisher Le Cam theory of the optimality of maximum likelihood estimators and Bayesian posterior inference does not apply and new foundations and ideas have been developed in the past several decades This book gives a coherent account of the statistical theory in infinite dimensional parameter spaces The mathematical foundations include self contained mini courses on the theory of Gaussian and empirical processes approximation and wavelet theory and the basic theory of function spaces The theory of statistical inference in such models hypothesis testing estimation and confidence sets is presented within the minimax paradigm of decision theory This includes the basic theory of convolution kernel and projection estimation but also Bayesian nonparametrics and nonparametric maximum likelihood estimation In a final chapter the theory of adaptive inference in nonparametric models is developed including Lepski s method wavelet thresholding and adaptive inference for self similar functions Winner of the 2017 PROSE Award for Mathematics

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

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 Modern Discrete Probability Sébastien Roch, 2024-01-18 Providing a graduate level introduction to discrete probability and its applications this book develops a toolkit of essential techniques for analysing stochastic processes on graphs other random discrete structures and algorithms Topics covered include the first and second moment methods concentration inequalities coupling and stochastic domination martingales and potential theory spectral methods and branching processes Each chapter expands on a fundamental technique outlining common uses and showing them in action on simple examples and more substantial classical results The focus is predominantly on non asymptotic methods and results All chapters provide a detailed background review section plus exercises and signposts to the wider literature Readers are assumed to have undergraduate level linear algebra

and basic real analysis while prior exposure to graduate level probability is recommended This much needed broad overview of discrete probability could serve as a textbook or as a reference for researchers in mathematics statistics data science Model-Based Clustering and Classification for Data Science Charles computer science and engineering Bouveyron, Gilles Celeux, T. Brendan Murphy, Adrian E. Raftery, 2019-07-25 Colorful example rich introduction to the state of the art for students in data science as well as researchers and practitioners The Fundamentals of Heavy Tails Jayakrishnan Nair, Adam Wierman, Bert Zwart, 2022-06-09 Heavy tails extreme events or values more common than expected emerge everywhere the economy natural events and social and information networks are just a few examples Yet after decades of progress they are still treated as mysterious surprising and even controversial primarily because the necessary mathematical models and statistical methods are not widely known This book for the first time provides a rigorous introduction to heavy tailed distributions accessible to anyone who knows elementary probability It tackles and tames the zoo of terminology for models and properties demystifying topics such as the generalized central limit theorem and regular variation It tracks the natural emergence of heavy tailed distributions from a wide variety of general processes building intuition And it reveals the controversy surrounding heavy tails to be the result of flawed statistics then equips readers to identify and estimate with confidence Over 100 exercises complete this engaging package **Random Graphs and Complex Networks: Volume 2** Remco van der Hofstad, 2024-02-08 Complex networks are key to describing the connected nature of the society that we live in This book the second of two volumes describes the local structure of random graph models for real world networks and determines when these models have a giant component and when they are small and ultra small worlds This is the first book to cover the theory and implications of local convergence a crucial technique in the analysis of sparse random graphs Suitable as a resource for researchers and PhD level courses it uses examples of real world networks such as the Internet and citation networks as motivation for the models that are discussed and includes exercises at the end of each chapter to develop intuition The book closes with an extensive discussion of related models and problems that demonstratemodern approaches to network theory such as community structure and directed models Spectral Analysis for Univariate Time Series Donald B. Percival, Andrew T. Walden, 2020-03-19 Spectral analysis is widely used to interpret time series collected in diverse areas This book covers the statistical theory behind spectral analysis and provides data analysts with the tools needed to transition theory into practice Actual time series from oceanography metrology atmospheric science and other areas are used in running examples throughout to allow clear comparison of how the various methods address questions of interest All major nonparametric and parametric spectral analysis techniques are discussed with emphasis on the multitaper method both in its original formulation involving Slepian tapers and in a popular alternative using sinusoidal tapers. The authors take a unified approach to quantifying the bandwidth of different nonparametric spectral estimates An extensive set of exercises allows readers to test their understanding of theory and practical analysis The time

series used as examples and R language code for recreating the analyses of the series are available from the book s website Probability Richard Durrett, Rick Durrett, 2019-04-18 A well written and lively introduction to measure theoretic probability for graduate students and researchers **Probability** Rick Durrett, 2019-04-18 This lively introduction to measure theoretic probability theory covers laws of large numbers central limit theorems random walks martingales Markov chains ergodic theorems and Brownian motion Concentrating on results that are the most useful for applications this comprehensive treatment is a rigorous graduate text and reference Operating under the philosophy that the best way to learn probability is to see it in action the book contains extended examples that apply the theory to concrete applications This fifth edition contains a new chapter on multidimensional Brownian motion and its relationship to partial differential equations PDEs an advanced topic that is finding new applications Setting the foundation for this expansion Chapter 7 now features a proof of It's formula Key exercises that previously were simply proofs left to the reader have been directly inserted into the text as lemmas The new edition re instates discussion about the central limit theorem for martingales and stationary Confidence, Likelihood, Probability Tore Schweder, Nils Lid Hjort, 2016-02-24 This lively book lays out a methodology of confidence distributions and puts them through their paces Among other merits they lead to optimal combinations of confidence from different sources of information and they can make complex models amenable to objective and indeed prior free analysis for less subjectively inclined statisticians. The generous mixture of theory illustrations applications and exercises is suitable for statisticians at all levels of experience as well as for data oriented scientists Some confidence distributions are less dispersed than their competitors. This concept leads to a theory of risk functions and comparisons for distributions of confidence Neyman Pearson type theorems leading to optimal confidence are developed and richly illustrated Exact and optimal confidence distribution is the gold standard for inferred epistemic distributions Confidence distributions and likelihood functions are intertwined allowing prior distributions to be made part of the likelihood Meta analysis in likelihood terms is developed and taken beyond traditional methods suiting it in particular to combining information across diverse data sources **Predictive Statistics** Bertrand S. Clarke, Jennifer L. Clarke, 2018-04-12 All scientific disciplines prize predictive success Conventional statistical analyses however treat prediction as secondary instead focusing on modeling and hence estimation testing and detailed physical interpretation tackling these tasks before the predictive adequacy of a model is established This book outlines a fully predictive approach to statistical problems based on studying predictors the approach does not require predictors correspond to a model although this important special case is included in the general approach Throughout the point is to examine predictive performance before considering conventional inference These ideas are traced through five traditional subfields of statistics helping readers to refocus and adopt a directly predictive outlook The book also considers prediction via contemporary black box techniques and emerging data types and methodologies where conventional modeling is so difficult that good prediction is the main

criterion available for evaluating the performance of a statistical method Well documented open source R code in a Github repository allows readers to replicate examples and apply techniques to other investigations Statistical Hypothesis Testing in Context Michael P. Fay, Erica H. Brittain, 2022-05-05 This coherent guide equips applied statisticians to make good choices and proper interpretations in real investigations facing real data **Random Graphs and Complex Networks** Remco van der Hofstad, 2017 This classroom tested text is the definitive introduction to the mathematics of network science Fundamentals of Nonparametric Bayesian Inference Subhashis Ghosal, Aad featuring examples and numerous exercises van der Vaart, 2017-06-26 Explosive growth in computing power has made Bayesian methods for infinite dimensional models Bayesian nonparametrics a nearly universal framework for inference finding practical use in numerous subject areas Written by leading researchers this authoritative text draws on theoretical advances of the past twenty years to synthesize all aspects of Bayesian nonparametrics from prior construction to computation and large sample behavior of posteriors Because understanding the behavior of posteriors is critical to selecting priors that work the large sample theory is developed systematically illustrated by various examples of model and prior combinations Precise sufficient conditions are given with complete proofs that ensure desirable posterior properties and behavior Each chapter ends with historical notes and numerous exercises to deepen and consolidate the reader's understanding making the book valuable for both graduate students and researchers in statistics and machine learning as well as in application areas such as econometrics and Long-Range Dependence and Self-Similarity Vladas Pipiras, Murad S. Taggu, 2017-04-18 This modern and biostatistics comprehensive guide to long range dependence and self similarity starts with rigorous coverage of the basics then moves on to cover more specialized up to date topics central to current research These topics concern but are not limited to physical models that give rise to long range dependence and self similarity central and non central limit theorems for long range dependent series and the limiting Hermite processes fractional Brownian motion and its stochastic calculus several celebrated decompositions of fractional Brownian motion multidimensional models for long range dependence and self similarity and maximum likelihood estimation methods for long range dependent time series Designed for graduate students and researchers each chapter of the book is supplemented by numerous exercises some designed to test the reader s understanding while others invite the reader to consider some of the open research problems in the field today Convergence and Empirical Processes A. W. van der Vaart, Jon A. Wellner, 2023-07-11 This book provides an account of weak convergence theory empirical processes and their application to a wide variety of problems in statistics. The first part of the book presents a thorough treatment of stochastic convergence in its various forms Part 2 brings together the theory of empirical processes in a form accessible to statisticians and probabilists In Part 3 the authors cover a range of applications in statistics including rates of convergence of estimators limit theorems for M and Z estimators the bootstrap the functional delta method and semiparametric estimation Most of the chapters conclude with problems and complements Some of these

are exercises to help the reader s understanding of the material whereas others are intended to supplement the text This second edition includes many of the new developments in the field since publication of the first edition in 1996 Glivenko Cantelli preservation theorems new bounds on expectations of suprema of empirical processes new bounds on covering numbers for various function classes generic chaining definitive versions of concentration bounds and new applications in statistics including penalized M estimation the lasso classification and support vector machines The approximately 200 additional pages also round out classical subjects including chapters on weak convergence in Skorokhod space on stable convergence and on processes based on pseudo observations **Studies in Theoretical and Applied Statistics** Nicola Salvati, Cira Perna, Stefano Marchetti, Raymond Chambers, 2023-02-14 This book includes a wide selection of papers presented at the 50th Scientific Meeting of the Italian Statistical Society SIS2021 held virtually on 21 25 June 2021 It covers a wide variety of subjects ranging from methodological and theoretical contributions to applied works and case studies giving an excellent overview of the interests of the Italian statisticians and their international collaborations Intended for researchers interested in theoretical and empirical issues this volume provides interesting starting points for further High Dimensional Probability VII Christian Houdré, David M. Mason, Patricia Reynaud-Bouret, Jan research Rosiński, 2016-09-21 This volume collects selected papers from the 7th High Dimensional Probability meeting held at the Institut d tudes Scientifiques de Carq se IESC in Corsica France High Dimensional Probability HDP is an area of mathematics that includes the study of probability distributions and limit theorems in infinite dimensional spaces such as Hilbert spaces and Banach spaces The most remarkable feature of this area is that it has resulted in the creation of powerful new tools and perspectives whose range of application has led to interactions with other subfields of mathematics statistics and computer science These include random matrices nonparametric statistics empirical processes statistical learning theory concentration of measure phenomena strong and weak approximations functional estimation combinatorial optimization and random graphs The contributions in this volume show that HDP theory continues to thrive and develop new tools methods techniques and perspectives to analyze random phenomena High Dimensional Probability VIII Nathael Gozlan, Rafał Latała, Karim Lounici, Mokshay Madiman, 2019-11-26 This volume collects selected papers from the 8th High Dimensional Probability meeting held at Casa Matem tica Oaxaca CMO Mexico High Dimensional Probability HDP is an area of mathematics that includes the study of probability distributions and limit theorems in infinite dimensional spaces such as Hilbert spaces and Banach spaces The most remarkable feature of this area is that it has resulted in the creation of powerful new tools and perspectives whose range of application has led to interactions with other subfields of mathematics statistics and computer science These include random matrices nonparametric statistics empirical processes statistical learning theory concentration of measure phenomena strong and weak approximations functional estimation combinatorial optimization random graphs information theory and convex geometry The contributions in this volume show that HDP theory continues to thrive and

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