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Marco A.R. Ferreira · Herbert K.H. Lee

Multiscale Modeling

A Bayesian Perspective

 Springer

Multiscale Modeling A Bayesian Perspective

Yan Wang, David L. McDowell



Multiscale Modeling A Bayesian Perspective:

Multiscale Modeling Marco A.R. Ferreira, Herbert K.H. Lee, 2007-07-27 This highly useful book contains methodology for the analysis of data that arise from multiscale processes It brings together a number of recent developments and makes them accessible to a wider audience Taking a Bayesian approach allows for full accounting of uncertainty and also addresses the delicate issue of uncertainty at multiple scales These methods can handle different amounts of prior knowledge at different scales as often occurs in practice The Oxford Handbook of Applied Bayesian Analysis Anthony O' Hagan, Mike West, 2010-03-18 Bayesian analysis has developed rapidly in applications in the last two decades and research in Bayesian methods remains dynamic and fast growing Dramatic advances in modelling concepts and computational technologies now enable routine application of Bayesian analysis using increasingly realistic stochastic models and this drives the adoption of Bayesian approaches in many areas of science technology commerce and industry This Handbook explores contemporary Bayesian analysis across a variety of application areas Chapters written by leading exponents of applied Bayesian analysis showcase the scientific ease and natural application of Bayesian modelling and present solutions to real engaging societally important and demanding problems The chapters are grouped into five general areas Biomedical Industry Economics Environment Policy Political and Natural Engineering Sciences and Appendix material in each touches on key concepts models and techniques of the chapter that are also of broader pedagogic and applied interest *Time Series* Raquel Prado, Marco A. R. Ferreira, Mike West, 2021-07-27 Focusing on Bayesian approaches and computations using analytic and simulation based methods for inference Time Series Modeling Computation and Inference Second Edition integrates mainstream approaches for time series modeling with significant recent developments in methodology and applications of time series analysis It encompasses a graduate level account of Bayesian time series modeling analysis and forecasting a broad range of references to state of the art approaches to univariate and multivariate time series analysis and contacts research frontiers in multivariate time series modeling and forecasting It presents overviews of several classes of models and related methodology for inference statistical computation for model fitting and assessment and forecasting It explores the connections between time and frequency domain approaches and develop various models and analyses using Bayesian formulations and computation including use of computations based on Markov chain Monte Carlo MCMC and sequential Monte Carlo SMC methods It illustrates the models and methods with examples and case studies from a variety of fields including signal processing biomedicine environmental science and finance Along with core models and methods the book represents state of the art approaches to analysis and forecasting in challenging time series problems It also demonstrates the growth of time series analysis into new application areas in recent years and contacts recent and relevant modeling developments and research challenges New in the second edition Expanded on aspects of core model theory and methodology Multiple new examples and exercises Detailed development of dynamic factor models Updated discussion and

connections with recent and current research frontiers **Statistical Learning from a Regression Perspective** Richard A. Berk, 2008-06-14 Statistical Learning from a Regression Perspective considers statistical learning applications when interest centers on the conditional distribution of the response variable given a set of predictors and when it is important to characterize how the predictors are related to the response As a first approximation this can be seen as an extension of nonparametric regression Among the statistical learning procedures examined are bagging random forests boosting and support vector machines Response variables may be quantitative or categorical Real applications are emphasized especially those with practical implications One important theme is the need to explicitly take into account asymmetric costs in the fitting process For example in some situations false positives may be far less costly than false negatives Another important theme is to not automatically cede modeling decisions to a fitting algorithm In many settings subject matter knowledge should trump formal fitting criteria Yet another important theme is to appreciate the limitation of one's data and not apply statistical learning procedures that require more than the data can provide The material is written for graduate students in the social and life sciences and for researchers who want to apply statistical learning procedures to scientific and policy problems Intuitive explanations and visual representations are prominent All of the analyses included are done in R

Information Criteria and Statistical Modeling Sadanori Konishi, Genshiro Kitagawa, 2008 Statistical modeling is a critical tool in scientific research This book provides comprehensive explanations of the concepts and philosophy of statistical modeling together with a wide range of practical and numerical examples The authors expect this work to be of great value not just to statisticians but also to researchers and practitioners in various fields of research such as information science computer science engineering bioinformatics economics marketing and environmental science It's a crucial area of study as statistical models are used to understand phenomena with uncertainty and to determine the structure of complex systems They're also used to control such systems as well as to make reliable predictions in various natural and social science fields

Bayesian Thinking, Modeling and Computation, 2005-11-29 This volume describes how to develop Bayesian thinking modelling and computation both from philosophical methodological and application point of view It further describes parametric and nonparametric Bayesian methods for modelling and how to use modern computational methods to summarize inferences using simulation The book covers wide range of topics including objective and subjective Bayesian inferences with a variety of applications in modelling categorical survival spatial spatiotemporal Epidemiological software reliability small area and micro array data The book concludes with a chapter on how to teach Bayesian thoughts to nonstatisticians Critical thinking on causal effects Objective Bayesian philosophy Nonparametric Bayesian methodology Simulation based computing techniques Bioinformatics and Biostatistics **Wavelet Methods in Statistics with R** Guy Nason, 2010-07-25 This book contains information on how to tackle many important problems using a multiscale statistical approach It focuses on how to use multiscale methods and discusses methodological and applied considerations *Modeling Spatio-Temporal Data* Marco

A. R. Ferreira,2024-11-29 Several important topics in spatial and spatio temporal statistics developed in the last 15 years have not received enough attention in textbooks Modeling Spatio Temporal Data Markov Random Fields Objectives Bayes and Multiscale Models aims to fill this gap by providing an overview of a variety of recently proposed approaches for the analysis of spatial and spatio temporal datasets including proper Gaussian Markov random fields dynamic multiscale spatio temporal models and objective priors for spatial and spatio temporal models The goal is to make these approaches more accessible to practitioners and to stimulate additional research in these important areas of spatial and spatio temporal statistics Key topics Proper Gaussian Markov random fields and their uses as building blocks for spatio temporal models and multiscale models Hierarchical models with intrinsic conditional autoregressive priors for spatial random effects including reference priors results on fast computations and objective Bayes model selection Objective priors for state space models and a new approximate reference prior for a spatio temporal model with dynamic spatio temporal random effects Spatio temporal models based on proper Gaussian Markov random fields for Poisson observations Dynamic multiscale spatio temporal thresholding for spatial clustering and data compression Multiscale spatio temporal assimilation of computer model output and monitoring station data Dynamic multiscale heteroscedastic multivariate spatio temporal models The M open multiple optima paradox and some of its practical implications for multiscale modeling Ensembles of dynamic multiscale spatio temporal models for smooth spatio temporal processes The audience for this book are practitioners researchers and graduate students in statistics data science machine learning and related fields Prerequisites for this book are master s level courses on statistical inference linear models and Bayesian statistics This book can be used as a textbook for a special topics course on spatial and spatio temporal statistics as well as supplementary material for graduate courses on spatial and spatio temporal modeling

Correlated Data Analysis: Modeling, Analytics, and Applications Xue-Kun Song,Peter X. -K.

Song,2007-07-27 This book covers recent developments in correlated data analysis It utilizes the class of dispersion models as marginal components in the formulation of joint models for correlated data This enables the book to cover a broader range of data types than the traditional generalized linear models The reader is provided with a systematic treatment for the topic of estimating functions and both generalized estimating equations GEE and quadratic inference functions QIF are studied as special cases In addition to the discussions on marginal models and mixed effects models this book covers new topics on joint regression analysis based on Gaussian copulas

Multiscale Modeling for Process Safety Applications Arnab

Chakrabarty,Sam Mannan,Tahir Cagin,2015-11-29 Multiscale Modeling for Process Safety Applications is a new reference demonstrating the implementation of multiscale modeling techniques on process safety applications It is a valuable resource for readers interested in theoretical simulations and or computer simulations of hazardous scenarios As multi scale modeling is a computational technique for solving problems involving multiple scales such as how a flammable vapor cloud might behave if ignited this book provides information on the fundamental topics of toxic fire and air explosion modeling as well as

modeling jet and pool fires using computational fluid dynamics The book goes on to cover nanomaterial toxicity QPSR analysis on relation of chemical structure to flash point molecular structure and burning velocity first principle studies of reactive chemicals water and air reactive chemicals and dust explosions Chemical and process safety professionals as well as faculty and graduate researchers will benefit from the detailed coverage provided in this book Provides the only comprehensive source addressing the use of multiscale modeling in the context of process safety Bridges multiscale modeling with process safety enabling the reader to understand mapping between problem detail and effective usage of resources Presents an overall picture of addressing safety problems in all levels of modeling and the latest approaches to each in the field Features worked out examples case studies and a question bank to aid understanding and involvement for the reader

Geometry Driven Statistics Ian L. Dryden, John T. Kent, 2015-09-28 A timely collection of advanced original material in the area of statistical methodology motivated by geometric problems dedicated to the influential work of Kanti V Mardia This volume celebrates Kanti V Mardia's long and influential career in statistics A common theme unifying much of Mardia's work is the importance of geometry in statistics and to highlight the areas emphasized in his research this book brings together 16 contributions from high profile researchers in the field Geometry Driven Statistics covers a wide range of application areas including directional data shape analysis spatial data climate science fingerprints image analysis computer vision and bioinformatics The book will appeal to statisticians and others with an interest in data motivated by geometric considerations Summarizing the state of the art examining some new developments and presenting a vision for the future Geometry Driven Statistics will enable the reader to broaden knowledge of important research areas in statistics and gain a new appreciation of the work and influence of Kanti V Mardia

Uncertainty Quantification in Multiscale Materials Modeling Yan Wang, David L. McDowell, 2020-03-12 Uncertainty Quantification in Multiscale Materials Modeling provides a complete overview of uncertainty quantification UQ in computational materials science It provides practical tools and methods along with examples of their application to problems in materials modeling UQ methods are applied to various multiscale models ranging from the nanoscale to macroscale This book presents a thorough synthesis of the state of the art in UQ methods for materials modeling including Bayesian inference surrogate modeling random fields interval analysis and sensitivity analysis providing insight into the unique characteristics of models framed at each scale as well as common issues in modeling across scales

Handbook of Markov Chain Monte Carlo Steve Brooks, Andrew Gelman, Galin Jones, Xiao-Li Meng, 2011-05-10 Since their popularization in the 1990s Markov chain Monte Carlo MCMC methods have revolutionized statistical computing and have had an especially profound impact on the practice of Bayesian statistics Furthermore MCMC methods have enabled the development and use of intricate models in an astonishing array of disciplines as diverse as fisheries *Simulation and Inference for Stochastic Differential Equations* Stefano M. Iacus, 2009-04-27 This book covers a highly relevant and timely topic that is of wide interest especially in finance engineering and computational biology The introductory material on

simulation and stochastic differential equation is very accessible and will prove popular with many readers. While there are several recent texts available that cover stochastic differential equations, the concentration here on inference makes this book stand out. No other direct competitors are known to date. With an emphasis on the practical implementation of the simulation and estimation methods presented, the text will be useful to practitioners and students with minimal mathematical background. What's more, because of the many R programs, the information here is appropriate for many mathematically well-educated practitioners too.

Model Calibration and Parameter Estimation Ne-Zheng Sun, Alexander Sun, 2015-07-01. This three-part book provides a comprehensive and systematic introduction to these challenging topics such as model calibration, parameter estimation, reliability assessment, and data collection design. Part 1 covers the classical inverse problem for parameter estimation in both deterministic and statistical frameworks. Part 2 is dedicated to system identification, hyperparameter estimation, and model dimension reduction. Part 3 considers how to collect data and construct reliable models for prediction and decision making. For the first time, topics such as multiscale inversion, stochastic field parameterization, level set method, machine learning, global sensitivity analysis, data assimilation, model uncertainty quantification, robust design, and goal-oriented modeling are systematically described and summarized in a single book from the perspective of model inversion and elucidated with numerical examples from environmental and water resources modeling. Readers of this book will not only learn basic concepts and methods for simple parameter estimation but also get familiar with advanced methods for modeling complex systems. Algorithms for mathematical tools used in this book, such as numerical optimization, automatic differentiation, adaptive parameterization, hierarchical Bayesian metamodeling, Markov chain Monte Carlo, are covered in details. This book can be used as a reference for graduate and upper-level undergraduate students majoring in environmental engineering, hydrology, and geosciences. It also serves as an essential reference book for professionals such as petroleum engineers, mining engineers, chemists, mechanical engineers, biologists, biology, and medical engineering, applied mathematicians, and others who perform mathematical modeling.

Statistical Decision Theory F. Liese, Klaus-J. Miescke, 2008-12-30. This monograph is written for advanced Master's students, Ph.D. students, and researchers in mathematical statistics and decision theory. It should be useful not only as a basis for graduate courses, seminars, Ph.D. programs, and self-studies but also as a reference tool. At the very least, readers should be familiar with basic concepts covered in both advanced undergraduate courses on probability and statistics and introductory graduate-level courses on probability theory, mathematical statistics, and analysis. Most statements and proofs appear in a form where standard arguments from measure theory and analysis are sufficient. When additional information is necessary, technical tools, additional measure-theoretic facts, and advanced probabilistic results are presented in condensed form in an appendix. In particular, topics from measure theory and from the theory of weak convergence of distributions are treated in detail with reference to modern books on probability theory such as Billingsley 1968, Kallenberg 1997, 2002, and Dudley 2002. Building on foundational knowledge

this book acquaints readers with the concepts of classical finite sample size decision theory and modern asymptotic decision theory in the sense of LeCam To this end systematic applications to the fields of parameter estimation testing hypotheses and selection of populations are included Some of the problems contain additional information in order to round off the results whereas other problems equipped with solutions have a more technical character The latter play the role of auxiliary results and as such they allow readers to become familiar with the advanced techniques of mathematical statistics

Numerical Analysis of Multiscale Problems Ivan G. Graham, Thomas Y. Hou, Omar Lakkis, Robert Scheichl, 2012-01-05 The 91st London Mathematical Society Durham Symposium took place from July 5th to 15th 2010 with more than 100 international participants attending The Symposium focused on Numerical Analysis of Multiscale Problems and this book contains 10 invited articles from some of the meeting's key speakers covering a range of topics of contemporary interest in this area Articles cover the analysis of forward and inverse PDE problems in heterogeneous media high frequency wave propagation atomistic continuum modeling and high dimensional problems arising in modeling uncertainty Novel upscaling and preconditioning techniques as well as applications to turbulent multi phase flow and to problems of current interest in materials science are all addressed As such this book presents the current state of the art in the numerical analysis of multiscale problems and will be of interest to both practitioners and mathematicians working in those fields

Multiple Testing Procedures with Applications to Genomics Sandrine Dudoit, Mark J. van der Laan, 2007-12-18 This book establishes the theoretical foundations of a general methodology for multiple hypothesis testing and discusses its software implementation in R and SAS These are applied to a range of problems in biomedical and genomic research including identification of differentially expressed and co expressed genes in high throughput gene expression experiments tests of association between gene expression measures and biological annotation metadata sequence analysis and genetic mapping of complex traits using single nucleotide polymorphisms The procedures are based on a test statistics joint null distribution and provide Type I error control in testing problems involving general data generating distributions null hypotheses and test statistics

Introduction to Empirical Processes and Semiparametric Inference Michael R. Kosorok, 2007-12-29 The goal of this book is to introduce statisticians and other researchers with a background in mathematical statistics to empirical processes and semiparametric inference These powerful research techniques are surprisingly useful for studying large sample properties of statistical estimates from realistically complex models as well as for developing new and proved approaches to statistical inference This book is more of a textbook than a research monograph although a number of new results are presented The level of the book is more introductory than the seminal work of van der Vaart and Wellner 1996 In fact another purpose of this work is to help readers prepare for the mathematically advanced van der Vaart and Wellner text as well as for the semiparametric inference work of Bickel Klaassen Ritov and Wellner 1997 These two books along with Pollard 1990 and Chapters 19 and 25 of van der Vaart 1998 formulate a very complete and successful elucidation of modern empirical process

methods The present book owes much by the way of inspiration concept and notation to these previous works What is perhaps new is the gradual yet rigorous and unified way this book introduces the reader to the field Decision Theory

Giovanni Parmigiani, Lurdes Inoue, 2009-04-15 Decision theory provides a formal framework for making logical choices in the face of uncertainty Given a set of alternatives a set of consequences and a correspondence between those sets decision theory offers conceptually simple procedures for choice This book presents an overview of the fundamental concepts and outcomes of rational decision making under uncertainty highlighting the implications for statistical practice The authors have developed a series of self contained chapters focusing on bridging the gaps between the different fields that have contributed to rational decision making and presenting ideas in a unified framework and notation while respecting and highlighting the different and sometimes conflicting perspectives This book Provides a rich collection of techniques and procedures Discusses the foundational aspects and modern day practice Links foundations to practical applications in biostatistics computer science engineering and economics Presents different perspectives and controversies to encourage readers to form their own opinion of decision making and statistics Decision Theory is fundamental to all scientific disciplines including biostatistics computer science economics and engineering Anyone interested in the whys and wherefores of statistical science will find much to enjoy in this book

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Multiscale Modeling A Bayesian Perspective Introduction

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