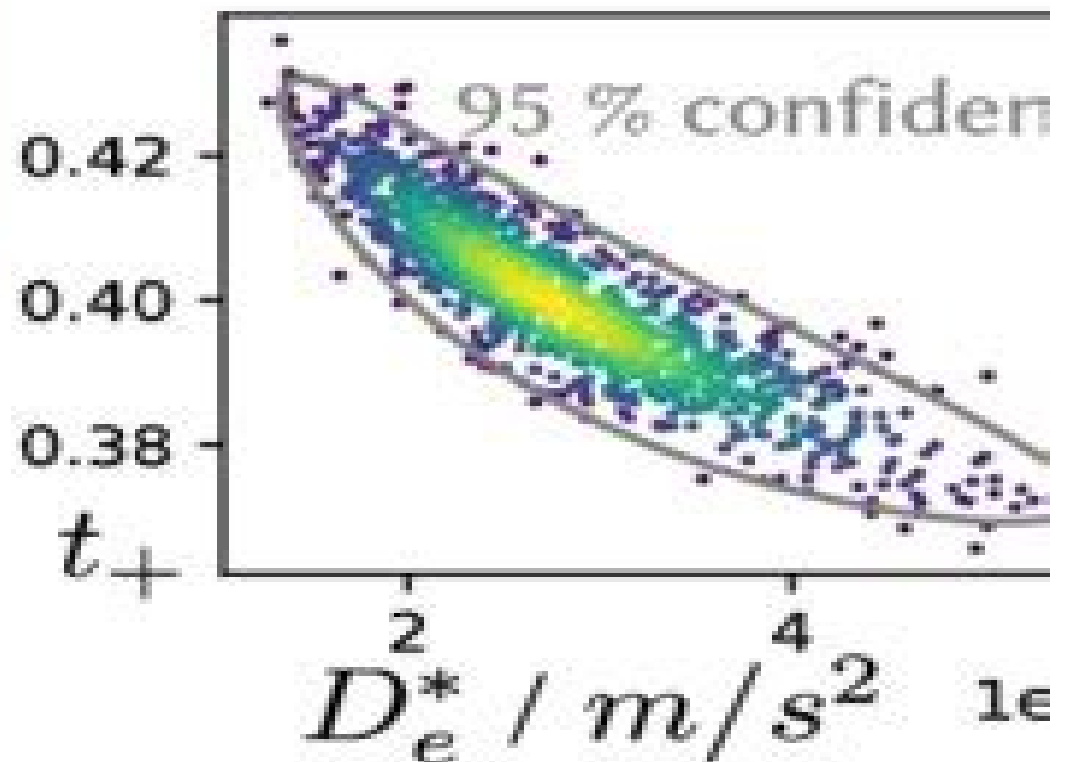


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Monte Carlo Methods In Bayesian Computation

Ronald Cools, Dirk Nuyens



Monte Carlo Methods In Bayesian Computation:

Monte Carlo Methods in Bayesian Computation Ming-Hui Chen, Qi-Man Shao, Joseph G. Ibrahim, 2012-12-06 Sampling from the posterior distribution and computing posterior quantities of interest using Markov chain Monte Carlo MCMC samples are two major challenges involved in advanced Bayesian computation This book examines each of these issues in detail and focuses heavily on computing various posterior quantities of interest from a given MCMC sample Several topics are addressed including techniques for MCMC sampling Monte Carlo MC methods for estimation of posterior summaries improving simulation accuracy marginal posterior density estimation estimation of normalizing constants constrained parameter problems Highest Posterior Density HPD interval calculations computation of posterior modes and posterior computations for proportional hazards models and Dirichlet process models Also extensive discussion is given for computations involving model comparisons including both nested and nonnested models Marginal likelihood methods ratios of normalizing constants Bayes factors the Savage Dickey density ratio Stochastic Search Variable Selection SSVS Bayesian Model Averaging BMA the reverse jump algorithm and model adequacy using predictive and latent residual approaches are also discussed The book presents an equal mixture of theory and real applications *Monte Carlo Methods in Bayesian Computation* Ming-Hui Chen, Qi-Man Shao, Joseph George Ibrahim, 2002

Handbook of Computational Statistics Yuichi Mori, 2004-07-14 The Handbook of Computational Statistics Concepts and Methodology is divided into four parts It begins with an overview over the field of Computational Statistics The second part presents several topics in the supporting field of statistical computing Emphasis is placed on the need of fast and accurate numerical algorithms and it discusses some of the basic methodologies for transformation data base handling and graphics treatment The third part focuses on statistical methodology Special attention is given to smoothing iterative procedures simulation and visualization of multivariate data Finally a set of selected applications like Bioinformatics Medical Imaging Finance and Network Intrusion Detection highlight the usefulness of computational statistics

Handbook of Approximate Bayesian Computation Scott A. Sisson, Yanan Fan, Mark Beaumont, 2018-09-03 As the world becomes increasingly complex so do the statistical models required to analyse the challenging problems ahead For the very first time in a single volume the Handbook of Approximate Bayesian Computation ABC presents an extensive overview of the theory practice and application of ABC methods These simple but powerful statistical techniques take Bayesian statistics beyond the need to specify overly simplified models to the setting where the model is defined only as a process that generates data This process can be arbitrarily complex to the point where standard Bayesian techniques based on working with tractable likelihood functions would not be viable ABC methods finesse the problem of model complexity within the Bayesian framework by exploiting modern computational power thereby permitting approximate Bayesian analyses of models that would otherwise be impossible to implement The Handbook of ABC provides illuminating insight into the world of Bayesian modelling for intractable models for both experts and newcomers

alike It is an essential reference book for anyone interested in learning about and implementing ABC techniques to analyse complex models in the modern world *Markov Chain Monte Carlo* Dani Gamerman,Hedibert F. Lopes,2006-05-10 While there have been few theoretical contributions on the Markov Chain Monte Carlo MCMC methods in the past decade current understanding and application of MCMC to the solution of inference problems has increased by leaps and bounds Incorporating changes in theory and highlighting new applications Markov Chain Monte Carlo Stochastic Simul **Monte Carlo and Quasi-Monte Carlo Methods** Ronald Cools,Dirk Nuyens,2016-06-13 This book presents the refereed proceedings of the Eleventh International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of Leuven Belgium in April 2014 These biennial conferences are major events for Monte Carlo and quasi Monte Carlo researchers The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods Offering information on the latest developments in these very active areas this book is an excellent reference resource for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance statistics and computer graphics *Handbook of Computational Statistics* James E. Gentle,Wolfgang Karl Härdle,Yuichi Mori,2012-07-06 The Handbook of Computational Statistics Concepts and Methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters addressing recent work in the field of computational statistics This new edition is divided into 4 parts in the same way as the first edition It begins with How Computational Statistics became the backbone of modern data science Ch 1 an overview of the field of Computational Statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research The second part Chs 2 15 presents several topics in the supporting field of statistical computing Emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed The third part Chs 16 33 focuses on statistical methodology Special attention is given to smoothing iterative procedures simulation and visualization of multivariate data Lastly a set of selected applications Chs 34 38 like Bioinformatics Medical Imaging Finance Econometrics and Network Intrusion Detection highlight the usefulness of computational statistics in real world applications *Extreme Value Modeling and Risk Analysis* Dipak K. Dey,Jun Yan,2016-01-06 Extreme Value Modeling and Risk Analysis Methods and Applications presents a broad overview of statistical modeling of extreme events along with the most recent methodologies and various applications The book brings together background material and advanced topics eliminating the need to sort through the massive amount of literature on the subje **Accelerating Monte Carlo methods for Bayesian inference in dynamical models** Johan Dahlin,2016-03-22 Making decisions and predictions from noisy observations are two important and challenging problems in

many areas of society Some examples of applications are recommendation systems for online shopping and streaming services connecting genes with certain diseases and modelling climate change In this thesis we make use of Bayesian statistics to construct probabilistic models given prior information and historical data which can be used for decision support and predictions The main obstacle with this approach is that it often results in mathematical problems lacking analytical solutions To cope with this we make use of statistical simulation algorithms known as Monte Carlo methods to approximate the intractable solution These methods enjoy well understood statistical properties but are often computational prohibitive to employ The main contribution of this thesis is the exploration of different strategies for accelerating inference methods based on sequential Monte Carlo SMC and Markov chain Monte Carlo MCMC That is strategies for reducing the computational effort while keeping or improving the accuracy A major part of the thesis is devoted to proposing such strategies for the MCMC method known as the particle Metropolis Hastings PMH algorithm We investigate two strategies i introducing estimates of the gradient and Hessian of the target to better tailor the algorithm to the problem and ii introducing a positive correlation between the point wise estimates of the target Furthermore we propose an algorithm based on the combination of SMC and Gaussian process optimisation which can provide reasonable estimates of the posterior but with a significant decrease in computational effort compared with PMH Moreover we explore the use of sparseness priors for approximate inference in over parametrised mixed effects models and autoregressive processes This can potentially be a practical strategy for inference in the big data era Finally we propose a general method for increasing the accuracy of the parameter estimates in non linear state space models by applying a designed input signal

Borde Riksbanken h ja eller s nka repor ntan vid sitt n sta m te f r att n inflationsm let Vilka gener r f rknippade med en viss sjukdom Hur kan Netflix och Spotify veta vilka filmer och vilken musik som jag vill lyssna p h rn st Dessa tre problem r exempel p fr gor d r statistiska modeller kan vara anv ndbara f r att ge hj lp och underlag f r beslut Statistiska modeller kombinerar teoretisk kunskap om exempelvis det svenska ekonomiska systemet med historisk data f r att ge prognoser av framtida skeenden Dessa prognoser kan sedan anv ndas f r att utv rdera exempelvis vad som skulle h nda med inflationen i Sverige om arbetsl sheten sjunker eller hur v rdet p mitt pensionssparande f r ndras n r Stockholmsb rsen rasar Till mpningar som dessa och m nga andra g r statistiska modeller viktiga f r m nga delar av samh llet Ett s tt att ta fram statistiska modeller bygger p att kontinuerligt uppdatera en modell allteftersom mer information samlas in Detta angreppss tt kallas f r Bayesianisk statistik och r s rskilt anv ndbart n r man sedan tidigare har bra insikter i modellen eller tillg ng till endast lite historisk data f r att bygga modellen En nackdel med Bayesianisk statistik r att de ber kningar som kr vs f r att uppdatera modellen med den nya informationen ofta r mycket komplicerade I s dana situationer kan man ist llet simulera utfallet fr n miljontals varianter av modellen och sedan j mf ra dessa mot de historiska observationerna som finns till hands Man kan sedan medelv rdesbilda ver de varianter som gav b st resultat f r att p s s tt ta fram en slutlig modell Det kan d rf r ibland ta dagar eller veckor f r att ta fram en modell Problemet

blir särskilt stort när man använder mer avancerade modeller som skulle kunna ge bättre prognoser men som tar för lång tid för att bygga. I denna avhandling använder vi ett antal olika strategier för att underlätta eller förbättra dessa simuleringar. Vi föreslår exempelvis att ta hänsyn till fler insikter om systemet och därmed minska antalet varianter av modellen som behöver undersökas. Vi kan således redan utesluta vissa modeller eftersom vi har en bra uppfattning om ungefär hur en bra modell ska se ut. Vi kan också förändra simuleringen så att den enklare rör sig mellan olika typer av modeller. På detta sätt utforskas rymden av alla möjliga modeller på ett mer effektivt sätt. Vi föreslår ett antal olika kombinationer och förändringar av befintliga metoder för att snabba upp anpassningen av modellen till observationerna. Vi visar att beräkningstiden i vissa fall kan minska ifrån några dagar till någon timme. Förhoppningsvis kommer detta i framtiden leda till att man i praktiken kan använda mer avancerade modeller som i sin tur resulterar i bättre prognoser och beslut.

An Introduction to Statistical Computing Jochen

Voss, 2013-08-28 A comprehensive introduction to sampling based methods in statistical computing. The use of computers in mathematics and statistics has opened up a wide range of techniques for studying otherwise intractable problems. Sampling based simulation techniques are now an invaluable tool for exploring statistical models. This book gives a comprehensive introduction to the exciting area of sampling based methods. *An Introduction to Statistical Computing* introduces the classical topics of random number generation and Monte Carlo methods. It also includes some advanced methods such as the reversible jump Markov chain Monte Carlo algorithm and modern methods such as approximate Bayesian computation and multilevel Monte Carlo techniques. *An Introduction to Statistical Computing* Fully covers the traditional topics of statistical computing. Discusses both practical aspects and the theoretical background. Includes a chapter about continuous time models. Illustrates all methods using examples and exercises. Provides answers to the exercises using the statistical computing environment R. The corresponding source code is available online. Includes an introduction to programming in R. This book is mostly self contained; the only prerequisites are basic knowledge of probability up to the law of large numbers. Careful presentation and examples make this book accessible to a wide range of students and suitable for self study or as the basis of a taught course.

Monte Carlo and Quasi-Monte Carlo Methods 2012 Josef Dick, Frances Y. Kuo, Gareth W. Peters, Ian

H. Sloan, 2013-12-05 This book represents the refereed proceedings of the Tenth International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of New South Wales Australia in February 2012. These biennial conferences are major events for Monte Carlo and the premiere event for quasi Monte Carlo research. The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods. The reader will be provided with information on latest developments in these very active areas. The book is an excellent reference for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance, statistics and computer graphics.

Bayesian Methods for Data Analysis, Third Edition Bradley P. Carlin, Thomas A. Louis, 2008-06-30

Broadening its scope to nonstatisticians Bayesian Methods for Data Analysis Third Edition provides an accessible introduction to the foundations and applications of Bayesian analysis Along with a complete reorganization of the material this edition concentrates more on hierarchical Bayesian modeling as implemented via Markov chain Monte Carlo MCMC methods and related data analytic techniques New to the Third Edition New data examples corresponding R and WinBUGS code and homework problems Explicit descriptions and illustrations of hierarchical modeling now commonplace in Bayesian data analysis A new chapter on Bayesian design that emphasizes Bayesian clinical trials A completely revised and expanded section on ranking and histogram estimation A new case study on infectious disease modeling and the 1918 flu epidemic A solutions manual for qualifying instructors that contains solutions computer code and associated output for every homework problem available both electronically and in print Ideal for Anyone Performing Statistical Analyses Focusing on applications from biostatistics epidemiology and medicine this text builds on the popularity of its predecessors by making it suitable for even more practitioners and students

Bayesian Statistical Modelling Peter Congdon, 2007-04-04 Bayesian methods combine the evidence from the data at hand with previous quantitative knowledge to analyse practical problems in a wide range of areas The calculations were previously complex but it is now possible to routinely apply Bayesian methods due to advances in computing technology and the use of new sampling methods for estimating parameters Such developments together with the availability of freeware such as WINBUGS and R have facilitated a rapid growth in the use of Bayesian methods allowing their application in many scientific disciplines including applied statistics public health research medical science the social sciences and economics Following the success of the first edition this reworked and updated book provides an accessible approach to Bayesian computing and analysis with an emphasis on the principles of prior selection identification and the interpretation of real data sets The second edition Provides an integrated presentation of theory examples applications and computer algorithms Discusses the role of Markov Chain Monte Carlo methods in computing and estimation Includes a wide range of interdisciplinary applications and a large selection of worked examples from the health and social sciences Features a comprehensive range of methodologies and modelling techniques and examines model fitting in practice using Bayesian principles Provides exercises designed to help reinforce the reader's knowledge and a supplementary website containing data sets and relevant programs Bayesian Statistical Modelling is ideal for researchers in applied statistics medical science public health and the social sciences who will benefit greatly from the examples and applications featured The book will also appeal to graduate students of applied statistics data analysis and Bayesian methods and will provide a great source of reference for both researchers and students Praise for the First Edition It is a remarkable achievement to have carried out such a range of analysis on such a range of data sets I found this book comprehensive and stimulating and was thoroughly impressed with both the depth and the range of the discussions it contains ISI Short Book Reviews This is an excellent introductory book on Bayesian modelling techniques and data analysis Biometrics The book fills

an important niche in the statistical literature and should be a very valuable resource for students and professionals who are utilizing Bayesian methods *Journal of Mathematical Psychology* *Bayesian Computation with R* Jim Albert, 2009-04-20

There has been dramatic growth in the development and application of Bayesian inference in statistics Berger 2000 documents the increase in Bayesian activity by the number of published research articles the number of books and the extensive number of applications of Bayesian articles in applied disciplines such as science and engineering One reason for the dramatic growth in Bayesian modeling is the availability of computational algorithms to compute the range of integrals that are necessary in a Bayesian posterior analysis Due to the speed of modern computers it is now possible to use the Bayesian paradigm to fit very complex models that cannot be fit by alternative frequentist methods To fit Bayesian models one needs a statistical computing environment This environment should be such that one can write short scripts to define a Bayesian model use or write functions to summarize a posterior distribution use functions to simulate from the posterior distribution construct graphs to illustrate the posterior inference An environment that meets these requirements is the R system R provides a wide range of functions for data manipulation calculation and graphical displays Moreover it includes a well developed simple programming language that users can extend by adding new functions Many such extensions of the language in the form of packages are easily downloadable from the Comprehensive R Archive Network CRAN

Computational Methods in Systems Biology Jérôme Feret, Heinz Koepl, 2017-09-18 This book constitutes the refereed proceedings of the 15th International Conference on Computational Methods in Systems Biology CMSB 2017 held in Darmstadt Germany in September 2017 The 15 full papers 4 tool papers and 4 posters presented together with 1 invited talk were carefully reviewed and selected from 41 regular paper submissions Topics of interest include formalisms for modeling biological processes models and their biological applications frameworks for model verification validation analysis and simulation of biological systems high performance computational systems biology and parallel implementations model inference from experimental data model integration from biological databases multi scale modeling and analysis methods and computational approaches for synthetic biology *2017 MATRIX Annals* Jan de Gier, Cheryl E. Praeger, Terence Tao, 2019-03-13 MATRIX is Australia's international and residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1-4 weeks in duration This book is a scientific record of the eight programs held at MATRIX in its second year 2017 Hypergeometric Motives and Calabi Yau Differential Equations Computational Inverse Problems Integrability in Low Dimensional Quantum Systems Elliptic Partial Differential Equations of Second Order Celebrating 40 Years of Gilbarg and Trudinger's Book Combinatorics Statistical Mechanics and Conformal Field Theory Mathematics of Risk Tutte Centenary Retreat Geometric R Matrices from Geometry to Probability The articles are grouped into peer reviewed contributions and other contributions The peer reviewed articles present original results or reviews on a topic related to the MATRIX program the remaining contributions are

predominantly lecture notes or short articles based on talks or activities at MATRIX

Computational Methods For Reliability And Risk Analysis Enrico Zio, 2009-01-22 This book illustrates a number of modelling and computational techniques for addressing relevant issues in reliability and risk analysis In particular it provides i a basic illustration of some methods used in reliability and risk analysis for modelling the stochastic failure and repair behaviour of systems e g the Markov and Monte Carlo simulation methods ii an introduction to Genetic Algorithms tailored to their application for RAMS Reliability Availability Maintainability and Safety optimization iii an introduction to key issues of system reliability and risk analysis like dependent failures and importance measures and iv a presentation of the issue of uncertainty and of the techniques of sensitivity and uncertainty analysis used in support of reliability and risk analysis The book provides a technical basis for senior undergraduate or graduate courses and a reference for researchers and practitioners in the field of reliability and risk analysis Several practical examples are included to demonstrate the application of the concepts and techniques in practice

Hierarchical Modeling and Analysis for Spatial Data Sudipto Banerjee, Alan E. Gelfand, Bradley P. Carlin, 2025-09-23 Hierarchical Modeling and Analysis for Spatial Data Third Edition is the latest edition of this popular and authoritative text on Bayesian modeling and inference for spatial and spatial temporal data The text presents a comprehensive and up to date treatment of hierarchical and multilevel modeling for spatial and spatio temporal data within a Bayesian framework Over the past decade since the second edition spatial statistics has evolved significantly driven by an explosion in data availability and advances in Bayesian computation This edition reflects those changes introducing new methods expanded applications and enhanced computational resources to support researchers and practitioners across disciplines including environmental science ecology and public health Key features of the third edition A dedicated chapter on state of the art Bayesian modeling of large spatial and spatio temporal datasets Two new chapters on spatial point pattern analysis covering both foundational and Bayesian perspectives A new chapter on spatial data fusion integrating diverse spatial data sources from different probabilistic mechanisms An accessible introduction to GPS mapping geodesic distances and mathematical cartography An expanded special topics chapter including spatial challenges with finite population modeling and spatial directional data A thoroughly revised chapter on Bayesian inference featuring an updated review of modern computational techniques A dedicated GitHub repository providing R programs and solutions to selected exercises ensuring continued access to evolving software developments With refreshed content throughout this edition serves as an essential reference for statisticians data scientists and researchers working with spatial data Graduate students and professionals seeking a deep understanding of Bayesian spatial modeling will find this volume an invaluable resource for both theory and practice

New Frontiers in Bayesian Statistics Raffaele Argiento, Federico Camerlenghi, Sally Paganin, 2022-11-26 This book presents a selection of peer reviewed contributions to the fifth Bayesian Young Statisticians Meeting BaYSM 2021 held virtually due to the COVID 19 pandemic on 1 3 September 2021 Despite all the challenges of an

online conference the meeting provided a valuable opportunity for early career researchers including MSc students PhD students and postdocs to connect with the broader Bayesian community The proceedings highlight many different topics in Bayesian statistics presenting promising methodological approaches to address important challenges in a variety of applications The book is intended for a broad audience of people interested in statistics and provides a series of stimulating contributions on theoretical methodological and computational aspects of Bayesian statistics **Astrostatistical**

Challenges for the New Astronomy Joseph M. Hilbe, 2012-11-07 Astrostatistical Challenges for the New Astronomy presents a collection of monographs authored by several of the disciplines leading astrostatisticians i e by researchers from the fields of statistics and astronomy astrophysics who work in the statistical analysis of astronomical and cosmological data Eight of the ten monographs are enhancements of presentations given by the authors as invited or special topics in astrostatistics papers at the ISI World Statistics Congress 2011 Dublin Ireland The opening chapter by the editor was adapted from an invited seminar given at Los Alamos National Laboratory 2011 on the history and current state of the discipline the second chapter by Thomas Loredo was adapted from his invited presentation at the Statistical Challenges in Modern Astronomy V conference 2011 Pennsylvania State University presenting insights regarding frequentist and Bayesian methods of estimation in astrostatistical analysis The remaining monographs are research papers discussing various topics in astrostatistics The monographs provide the reader with an excellent overview of the current state astrostatistical research and offer guidelines as to subjects of future research Lead authors for each chapter respectively include Joseph M Hilbe Jet Propulsion Laboratory and Arizona State Univ Thomas J Loredo Dept of Astronomy Cornell Univ Stefano Andreon INAF Osservatorio Astronomico di Brera Italy Martin Kunz Institute for Theoretical Physics Univ of Geneva Switz Benjamin Wandell Institut d Astrophysique de Paris Univ Pierre et Marie Curie France Roberto Trotta Astrophysics Group Dept of Physics Imperial College London UK Phillip Gregory Dept of Astronomy Univ of British Columbia Canada Marc Henrion Dept of Mathematics Imperial College London UK Asis Kumar Chattopadhyay Dept of Statistics Univ of Calcutta India Marisa March Astrophysics Group Dept of Physics Imperial College London UK body

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