

Springer Series in Statistics

Christiane Lemieux

Monte Carlo and Quasi-Monte Carlo Sampling

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Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics:

Monte Carlo and Quasi-Monte Carlo Sampling Christiane Lemieux, 2009-04-03 Quasi Monte Carlo methods have become an increasingly popular alternative to Monte Carlo methods over the last two decades Their successful implementation on practical problems especially in finance has motivated the development of several new research areas within this field to which practitioners and researchers from various disciplines currently contribute This book presents essential tools for using quasi Monte Carlo sampling in practice The first part of the book focuses on issues related to Monte Carlo methods uniform and non uniform random number generation variance reduction techniques but the material is presented to prepare the readers for the next step which is to replace the random sampling inherent to Monte Carlo by quasi random sampling The second part of the book deals with this next step Several aspects of quasi Monte Carlo methods are covered including constructions randomizations the use of ANOVA decompositions and the concept of effective dimension The third part of the book is devoted to applications in finance and more advanced statistical tools like Markov chain Monte Carlo and sequential Monte Carlo with a discussion of their quasi Monte Carlo counterpart The prerequisites for reading this book are a basic knowledge of statistics and enough mathematical maturity to follow through the various techniques used throughout the book This text is aimed at graduate students in statistics management science operations research engineering and applied mathematics It should also be useful to practitioners who want to learn more about Monte Carlo and quasi Monte Carlo methods and researchers interested in an up to date guide to these methods

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

75 Years of Mathematics of Computation Susanne C. Brenner, Igor E. Shparlinski, Chi-Wang Shu, Daniel Szyld, 2020-07-29 The year 2018 marked the 75th anniversary of the founding of Mathematics of Computation one of the four primary research journals published by the American Mathematical Society and the oldest research journal devoted to computational mathematics To celebrate this

milestone the symposium Celebrating 75 Years of Mathematics of Computation was held from November 13 2018 at the Institute for Computational and Experimental Research in Mathematics ICERM Providence Rhode Island The sixteen papers in this volume written by the symposium speakers and editors of the journal include both survey articles and new contributions On the discrete side there are four papers covering topics in computational number theory and computational algebra On the continuous side there are twelve papers covering topics in machine learning high dimensional approximations nonlocal and fractional elliptic problems gradient flows hyperbolic conservation laws Maxwell's equations Stokes's equations a posteriori error estimation and iterative methods Together they provide a snapshot of significant achievements in the past quarter century in computational mathematics and also in important current trends

Digital Nets and Sequences Josef Dick, Friedrich Pillichshammer, 2010-09-09 Indispensable for students invaluable for researchers this comprehensive treatment of contemporary quasi Monte Carlo methods digital nets and sequences and discrepancy theory starts from scratch with detailed explanations of the basic concepts and then advances to current methods used in research As deterministic versions of the Monte Carlo method quasi Monte Carlo rules have increased in popularity with many fruitful applications in mathematical practice These rules require nodes with good uniform distribution properties and digital nets and sequences in the sense of Niederreiter are known to be excellent candidates Besides the classical theory the book contains chapters on reproducing kernel Hilbert spaces and weighted integration duality theory for digital nets polynomial lattice rules the newest constructions by Niederreiter and Xing and many more The authors present an accessible introduction to the subject based mainly on material taught in undergraduate courses with numerous examples exercises and illustrations

Applied Algebra and Number Theory Gerhard Larcher, Friedrich Pillichshammer, Arne Winterhof, 2014-12-11 This book contains survey articles on modern topics related to the work of Harald Niederreiter written by close colleagues and leading experts

Monte Carlo Methods for Applied Scientists Ivan Dimov, 2008 The Monte Carlo method is inherently parallel and the extensive and rapid development in parallel computers computational clusters and grids has resulted in renewed and increasing interest in this method At the same time there has been an expansion in the application areas and the method is now widely used in many important areas of science including nuclear and semiconductor physics statistical mechanics and heat and mass transfer This book attempts to bridge the gap between theory and practice concentrating on modern algorithmic implementation on parallel architecture machines Although a suitable text for final year postgraduate mathematicians and computational scientists it is principally aimed at the applied scientists only a small amount of mathematical knowledge is assumed and theorem proving is kept to a minimum with the main focus being on parallel algorithms development often to applied industrial problems A selection of algorithms developed both for serial and parallel machines are provided

Sample Chapter's

Chapter 1 Introduction 231 KB Contents

Basic Results of Monte Carlo Integration

Optimal Monte Carlo Method for Multidimensional Integrals of Smooth Functions

Iterative Monte Carlo Methods

for Linear Equations Markov Chain Monte Carlo Methods for Eigenvalue Problems Monte Carlo Methods for Boundary Value Problems BVP Superconvergent Monte Carlo for Density Function Simulation by B Splines Solving Non Linear Equations Algorithmic Efficiency for Different Computer Models Applications for Transport Modeling in Semiconductors and Nanowires Readership Applied scientists and mathematicians

Numbers and Figures Giancarlo Travaglini, 2023-05-31 One of the great charms of mathematics is uncovering unexpected connections In Numbers and Figures Giancarlo Travaglini provides six conversations that do exactly that by talking about several topics in elementary number theory and some of their connections to geometry calculus and real life problems such as COVID 19 vaccines or fiscal frauds Each conversation is in two parts an introductory essay which provides a gentle introduction to the topic and a second section that delves deeper and requires study by the reader The topics themselves are extremely appealing and include for example Pick s theorem Simpson s paradox Farey sequences the Frobenius problem and Benford s Law Numbers and Figures will be a useful resource for college faculty teaching Elementary Number Theory or Calculus The chapters are largely independent and could make for nice course ending projects or even lead ins to high school or undergraduate research projects The whole book would make for an enjoyable semester long independent reading course Faculty will find it entertaining bedtime reading and last but not least readers more generally will be interested in this book if they miss the accuracy and imagination found in their high school and college math courses

Stochastic Modeling in Hydrogeology J. Jaime Gómez-Hernández, Liangping Li, Teng Xu, Andrés Alcolea, 2021-07-14 Dr Andres Alcolea is employed by Geo Energie Suisse AG and is the funder and CEO of HydroGeoModels All other Topic Editors declare no competing interests with regards to the Research Topic subject

Monte-Carlo and Quasi-Monte Carlo Methods 1998 Harald Niederreiter, Jerome Spanier, 2000 This book represents the refereed proceedings of the Third International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing which was held at Claremont Graduate University in 1998 An important feature are invited surveys of the state of the art in key areas such as multidimensional numerical integration low discrepancy point sets random number generation and applications of Monte Carlo and quasi Monte Carlo methods These proceedings include also carefully selected contributed papers on all aspects of Monte Carlo and quasi Monte Carlo methods The reader will be informed about current research in this very active area

Quantifying Uncertainty in Subsurface Systems Céline Scheidt, Lewis Li, Jef Caers, 2018-06-19 Under the Earth s surface is a rich array of geological resources many with potential use to humankind However extracting and harnessing them comes with enormous uncertainties high costs and considerable risks The valuation of subsurface resources involves assessing discordant factors to produce a decision model that is functional and sustainable This volume provides real world examples relating to oilfields geothermal systems contaminated sites and aquifer recharge Volume highlights include A multi disciplinary treatment of uncertainty quantification Case studies with actual data that will appeal to methodology developers A Bayesian evidential learning framework that reduces computation and modeling time

Quantifying Uncertainty in Subsurface Systems is a multidisciplinary volume that brings together five major fields information science decision science geosciences data science and computer science It will appeal to both students and practitioners and be a valuable resource for geoscientists engineers and applied mathematicians Read the Editors Vox eos org editors vox quantifying uncertainty about earths resources Contemporary Multivariate Analysis and Design of Experiments Kaitai Fang,2005 Index Subject index Author index *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 rkni ppade 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 på att kontinuerligt uppdatera en modell allteftersom mer information samlas in. Detta angreppssätt kallas för Bayesianisk statistik och är särskilt användbart när man sedan tidigare har bra insikter i modellen eller tillgängligt endast lite historisk data för att bygga modellen. En nackdel med Bayesianisk statistik är att de beräkningar som krävs för att uppdatera modellen med den nya informationen ofta är mycket komplicerade. I sådana situationer kan man istället simulera utfallet för miljontals varianter av modellen och sedan jämföra dessa mot de historiska observationerna som finns till hands. Man kan sedan medelvärdesbilda över de varianter som gav bäst resultat för att presentera fram en slutlig modell. Det kan dock ibland ta dagar eller veckor för 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 är sig mellan olika typer av modeller. På detta sätt utforskas rummet 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.

Approximating Integrals via Monte Carlo and Deterministic Methods Michael Evans, Timothy Swartz, 2000-03-23 This book is designed to introduce graduate students and researchers to the primary methods useful for approximating integrals. The emphasis is on those methods that have been found to be of practical use and although the focus is on approximating higher dimensional integrals the lower dimensional case is also covered. Included in the book are asymptotic techniques, multiple quadrature and quasi random techniques as well as a complete development of Monte Carlo algorithms. For the Monte Carlo section importance sampling, variance reduction techniques and the primary Markov Chain Monte Carlo algorithms are covered. This book brings these various techniques together for the first time and hence provides an accessible textbook and reference for researchers in a wide variety of disciplines.

Computational Methods in Finance Ali Hirs, 2016-04-19 Helping readers accurately price a vast array of derivatives, this self-contained text explains how to solve complex functional equations through numerical methods. It addresses key computational methods in finance including transform techniques, the finite difference method and Monte Carlo simulation. Developed from his courses at Columbia University and the Courant Institute of New York University, the author also covers model calibration and optimization and describes techniques such as Kalman and particle filters for parameter estimation.

Bayesian Methods Jeff Gill, 2014-12-11 An Update of the Most Popular Graduate Level Introductions to Bayesian Statistics for Social Scientists. Now that Bayesian modeling has become standard, MCMC is well understood and trusted and computing power

continues to increase Bayesian Methods A Social and Behavioral Sciences Approach Third Edition focuses more on implementation details of the

Connectivity Prediction in Mobile Ad Hoc Networks for Real-Time Control Sebastian Thelen, 2015-09-21 Cyber physical systems are the next step in realizing the centuries old ubiquitous computing idea by focusing on open real time systems design and device connectivity Mobile ad hoc networks offer the flexible local connectivity that cyber physical systems require if the connectivity can be realized dependably One aspect of the dependability is the prediction of connectivity in the mobile ad hoc network The presented research contributes to the connectivity prediction in mobile ad hoc networks with moving network participants in two ways It systematically analyses the influence of scenario parameters on a set of connectivity metrics and it proposes and evaluates three classes of prediction models for these metrics

Handbooks in Operations Research and Management Science: Simulation Shane G. Henderson, Barry L. Nelson, 2006-09-02 This Handbook is a collection of chapters on key issues in the design and analysis of computer simulation experiments on models of stochastic systems The chapters are tightly focused and written by experts in each area For the purpose of this volume simulation refers to the analysis of stochastic processes through the generation of sample paths realization of the processes Attention focuses on design and analysis issues and the goal of this volume is to survey the concepts principles tools and techniques that underlie the theory and practice of stochastic simulation design and analysis Emphasis is placed on the ideas and methods that are likely to remain an intrinsic part of the foundation of the field for the foreseeable future The chapters provide up to date references for both the simulation researcher and the advanced simulation user but they do not constitute an introductory level how to guide Computer scientists financial analysts industrial engineers management scientists operations researchers and many other professionals use stochastic simulation to design understand and improve communications financial manufacturing logistics and service systems A theme that runs throughout these diverse applications is the need to evaluate system performance in the face of uncertainty including uncertainty in user load interest rates demand for product availability of goods cost of transportation and equipment failures Tightly focused chapters written by experts Surveys concepts principles tools and techniques that underlie the theory and practice of stochastic simulation design and analysis Provides an up to date reference for both simulation researchers and advanced simulation users

Risk, Reliability and Safety: Innovating Theory and Practice Lesley Walls, Matthew Revie, Tim Bedford, 2016-11-25 Risk Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference ESREL 2016 held at the University of Strathclyde in Glasgow Scotland 25-29 September 2016 Authors include scientists academics practitioners regulators and other key individuals with expertise and experience relevant to specific areas Papers include domain specific applications as well as general modelling methods Papers cover evaluation of contemporary solutions exploration of future challenges and exposition of concepts methods and processes Topics include human factors occupational health and safety dynamic and

systems reliability modelling maintenance optimisation uncertainty analysis resilience assessment risk and crisis management

Parameter Estimation and Uncertainty Quantification in Water Resources Modeling Philippe Renard, Frederick Delay, Daniel M. Tartakovsky, Velimir V. Vesselinov, 2020-04-22 Numerical models of flow and transport processes are heavily employed in the fields of surface soil and groundwater hydrology They are used to interpret field observations analyze complex and coupled processes or to support decision making related to large societal issues such as the water energy nexus or sustainable water management and food production Parameter estimation and uncertainty quantification are two key features of modern science based predictions When applied to water resources these tasks must cope with many degrees of freedom and large datasets Both are challenging and require novel theoretical and computational approaches to handle complex models with large number of unknown parameters

Computational Statistics Geof H. Givens, Jennifer A. Hoeting, 2012-10-09 This new edition continues to serve as a comprehensive guide to modern and classical methods of statistical computing The book is comprised of four main parts spanning the field Optimization Integration and Simulation Bootstrapping Density Estimation and Smoothing Within these sections each chapter includes a comprehensive introduction and step by step implementation summaries to accompany the explanations of key methods The new edition includes updated coverage and existing topics as well as new topics such as adaptive MCMC and bootstrapping for correlated data The book website now includes comprehensive R code for the entire book There are extensive exercises real examples and helpful insights about how to use the methods in practice

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Table of Contents Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics

1. Understanding the eBook Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - The Rise of Digital Reading Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Advantages of eBooks Over Traditional Books
2. Identifying Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Personalized Recommendations
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics User Reviews and Ratings
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics and Bestseller Lists
5. Accessing Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics Free and Paid eBooks
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics Public Domain eBooks
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics eBook Subscription Services
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics Budget-Friendly Options

6. Navigating Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics eBook Formats
 - ePub, PDF, MOBI, and More
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics Compatibility with Devices
 - Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Highlighting and Note-Taking Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Interactive Elements Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
8. Staying Engaged with Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
9. Balancing eBooks and Physical Books Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Setting Reading Goals Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Fact-Checking eBook Content of Monte Carlo And Quasi Monte Carlo Sampling Springer Series In Statistics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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