

Springer Series in Statistics

Jun S. Liu

Monte Carlo Strategies in Scientific Computing

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Springer Series In Statistics

Simo Särkkä, Arno Solin



Monte Carlo Strategies In Scientific Computing Springer Series In Statistics:

Monte Carlo Strategies in Scientific Computing Jun S. Liu, 2001 This book provides an up to date treatment of the Monte Carlo method and develops a common framework under which various Monte Carlo techniques can be standardized and compared It can be used as a textbook for a graduate level course on Monte Carlo methods **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 Sequential Monte Carlo Methods in Practice Arnaud Doucet, Nando de Freitas, Neil Gordon, 2001-06-21 Monte Carlo methods are revolutionizing the on line analysis of data in many fields They have made it possible to solve numerically many complex non standard problems that were previously intractable This book presents the first comprehensive treatment of these techniques Monte-Carlo Methods and Stochastic Processes Emmanuel Gobet, 2016-09-15 Developed from the author s course at the Ecole Polytechnique Monte Carlo Methods and Stochastic Processes From Linear to Non Linear focuses on the simulation of stochastic processes in continuous time and their link with partial differential equations PDEs It covers linear and nonlinear problems in biology finance geophysics mechanics chemistry and other application areas The text also thoroughly develops the problem of numerical integration and computation of expectation by the Monte Carlo method The book begins with a history of Monte Carlo methods and an overview of three typical Monte Carlo problems numerical integration and computation of expectation simulation of complex distributions and stochastic optimization The remainder of the text is organized in three parts of progressive difficulty The first part presents basic tools for stochastic simulation and analysis of algorithm convergence The second part describes

Monte Carlo methods for the simulation of stochastic differential equations The final part discusses the simulation of non linear dynamics

Computer Intensive Methods in Statistics Silvelyn Zwanzig, Behrang Mahjani, 2019-11-27 This textbook gives an overview of statistical methods that have been developed during the last years due to increasing computer use including random number generators Monte Carlo methods Markov Chain Monte Carlo MCMC methods Bootstrap EM algorithms SIMEX variable selection density estimators kernel estimators orthogonal and local polynomial estimators wavelet estimators splines and model assessment *Computer Intensive Methods in Statistics* is written for students at graduate level but can also be used by practitioners Features Presents the main ideas of computer intensive statistical methods Gives the algorithms for all the methods Uses various plots and illustrations for explaining the main ideas Features the theoretical backgrounds of the main methods Includes R codes for the methods and examples Silvelyn Zwanzig is an Associate Professor for Mathematical Statistics at Uppsala University She studied Mathematics at the Humboldt University in Berlin Before coming to Sweden she was Assistant Professor at the University of Hamburg in Germany She received her Ph D in Mathematics at the Academy of Sciences of the GDR Since 1991 she has taught Statistics for undergraduate and graduate students Her research interests have moved from theoretical statistics to computer intensive statistics Behrang Mahjani is a postdoctoral fellow with a Ph D in Scientific Computing with a focus on Computational Statistics from Uppsala University Sweden He joined the Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai New York in September 2017 and was formerly a postdoctoral fellow at the Karolinska Institutet Stockholm Sweden His research is focused on solving large scale problems through statistical and computational methods

Computational Materials Engineering Maciej Pietrzyk, Lukasz Madej, Lukasz Rauch, Danuta Szeliga, 2015-07-14 *Computational Materials Engineering Achieving High Accuracy and Efficiency in Metals Processing Simulations* describes the most common computer modeling and simulation techniques used in metals processing from so called fast models to more advanced multiscale models also evaluating possible methods for improving computational accuracy and efficiency Beginning with a discussion of conventional fast models like internal variable models for flow stress and microstructure evolution the book moves on to advanced multiscale models such as the CAF method which give insights into the phenomena occurring in materials in lower dimensional scales The book then delves into the various methods that have been developed to deal with problems including long computing times lack of proof of the uniqueness of the solution difficulties with convergence of numerical procedures local minima in the objective function and ill posed problems It then concludes with suggestions on how to improve accuracy and efficiency in computational materials modeling and a best practices guide for selecting the best model for a particular application Presents the numerical approaches for high accuracy calculations Provides researchers with essential information on the methods capable of exact representation of microstructure morphology Helpful to those working on model classification computing costs heterogeneous hardware modeling efficiency numerical algorithms metamodeling sensitivity

analysis inverse method clusters heterogeneous architectures grid environments finite element flow stress internal variable method microstructure evolution and more Discusses several techniques to overcome modeling and simulation limitations including distributed computing methods hyper reduced order modeling techniques regularization statistical representation of material microstructure and the Gaussian process Covers both software and hardware capabilities in the area of improved computer efficiency and reduction of computing time

Engineering Design Reliability Handbook Efstratios

Nikolaidis, Dan M. Ghiocel, Suren Singhal, 2004-12-22 Researchers in the engineering industry and academia are making important advances on reliability based design and modeling of uncertainty when data is limited Non deterministic approaches have enabled industries to save billions by reducing design and warranty costs and by improving quality Considering the lack of comprehensive and definitive presentations on the subject Engineering Design Reliability Handbook is a valuable addition to the reliability literature It presents the perspectives of experts from the industry national labs and academia on non deterministic approaches including probabilistic interval and fuzzy sets based methods generalized information theory Dempster Shaffer evidence theory and robust reliability It also presents recent advances in all important fields of reliability design including modeling of uncertainty reliability assessment of both static and dynamic components and systems design decision making in the face of uncertainty and reliability validation The editors and the authors also discuss documented success stories and quantify the benefits of these approaches With contributions from a team of respected international authors and the guidance of esteemed editors this handbook is a distinctive addition to the acclaimed line of handbooks from CRC Press

Handbook of Research on Computational Methodologies in Gene Regulatory Networks

Das, Sanjoy, Caragea, Doina, Welch, Stephen, Hsu, William H., 2009-10-31 This book focuses on methods widely used in modeling gene networks including structure discovery learning and optimization Provided by publisher

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

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

Bayesian Signal Processing James V. Candy, 2011-09-20 New Bayesian approach helps you solve tough problems in signal processing with ease Signal processing is based on this fundamental concept the extraction of critical information from noisy uncertain data Most techniques rely on underlying Gaussian assumptions for a solution but what happens when these assumptions are erroneous Bayesian techniques circumvent this limitation by offering a completely different approach that can easily incorporate non Gaussian and nonlinear processes along with all of the usual methods currently available This text enables readers to fully exploit the many advantages of the Bayesian approach to model based signal processing It clearly demonstrates the features of this powerful approach compared to the pure statistical methods found in other texts Readers will discover how easily and effectively the Bayesian approach coupled with the hierarchy of physics based models developed throughout can be applied to signal processing problems that previously seemed unsolvable Bayesian Signal Processing features the latest generation of processors particle filters that have been enabled by the advent of high speed high throughput computers The Bayesian approach is uniformly developed in this book s algorithms examples applications and case studies Throughout this book the emphasis is on nonlinear non Gaussian problems however some classical techniques e g Kalman filters unscented Kalman filters Gaussian sums grid based filters et al are included to enable readers familiar with those methods to draw parallels between the two approaches Special features include Unified Bayesian treatment starting from the basics Bayes s rule to the more advanced Monte Carlo sampling evolving to the next generation techniques sequential Monte Carlo sampling Incorporates classical Kalman filtering for linear linearized and nonlinear systems modern unscented Kalman filters and the next generation Bayesian particle filters Examples illustrate how theory can be applied directly to a variety of processing problems Case studies demonstrate how the Bayesian approach solves real world problems in practice MATLAB notes at the end of each chapter help readers solve complex problems using readily available software commands and point out software packages available Problem sets test readers knowledge and help them put their new skills into practice The basic Bayesian approach is emphasized throughout this text in order to enable the processor to rethink the approach to formulating and solving signal processing problems from the Bayesian perspective This text brings readers from the classical methods of model based signal processing to the next generation of processors that will clearly dominate the future of signal processing for years to come With its many illustrations demonstrating the applicability of the Bayesian approach to real world problems in signal processing this text is essential for all students scientists and engineers who investigate and apply signal processing to their everyday problems

Computational Statistics Geof H. Givens, Jennifer A. Hoeting, 2012-11-06 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

Nonlinear Time Series Randal Douc, Eric Moulines, David Stoffer, 2014-01-06 This text emphasizes nonlinear models for a course in time series analysis After introducing stochastic processes Markov chains Poisson processes and ARMA models the authors cover functional autoregressive ARCH threshold AR and discrete time series models as well as several complementary approaches They discuss the main limit theorems for Markov chains useful inequalities statistical techniques to infer model parameters and GLMs Moving on to HMM models the book examines filtering and smoothing parametric and nonparametric inference advanced particle filtering and numerical methods for inference

Bayesian Time Series Models David Barber, A. Taylan Cemgil, Silvia Chiappa, 2011-08-11 The first unified treatment of time series modelling techniques spanning machine learning statistics engineering and computer science

Computational Approaches in Physics Maria Fyta, 2016-11-01 Computational Approaches in Physics reviews computational schemes which are used in the simulations of physical systems These range from very accurate ab initio techniques up to coarse grained and mesoscopic schemes The choice of the method is based on the desired accuracy and computational efficiency A bottom up approach is used to present the various simulation methods used in Physics starting from the lower level and the most accurate methods up to particle based ones The book outlines the basic theory underlying each technique and its complexity addresses the computational implications and issues in the implementation as well as present representative examples A link to the most common computational codes commercial or open source is listed in each chapter The strengths and deficiencies of the variety of techniques discussed in this book are presented in detail and visualization tools commonly used to make the simulation data more comprehensive are also discussed In the end specific techniques are used as bridges across different disciplines To this end examples of different systems tackled with the same methods are presented The appendices include elements of physical theory which are prerequisites in understanding the simulation methods

A Course in Statistics with R Prabhanjan N. Tattar, Suresh Ramaiah, B. G. Manjunath, 2016-03-15 Integrates the theory and applications of statistics using R A Course in Statistics with R has been written to bridge the gap between theory and applications and explain how mathematical expressions are converted into R programs The book has been primarily designed as a useful companion for a Masters student during each semester of the course but will also help applied statisticians in revisiting the underpinnings of the subject With this dual goal in mind the book begins with R basics and quickly covers visualization and exploratory

analysis Probability and statistical inference inclusive of classical nonparametric and Bayesian schools is developed with definitions motivations mathematical expression and R programs in a way which will help the reader to understand the mathematical development as well as R implementation Linear regression models experimental designs multivariate analysis and categorical data analysis are treated in a way which makes effective use of visualization techniques and the related statistical techniques underlying them through practical applications and hence helps the reader to achieve a clear understanding of the associated statistical models Key features Integrates R basics with statistical concepts Provides graphical presentations inclusive of mathematical expressions Aids understanding of limit theorems of probability with and without the simulation approach Presents detailed algorithmic development of statistical models from scratch Includes practical applications with over 50 data sets

Bayesian Theory and Applications Paul Damien, Petros

Dellaportas, Nicholas G. Polson, David A. Stephens, 2013-01-24 This volume guides the reader along a statistical journey that begins with the basic structure of Bayesian theory and then provides details on most of the past and present advances in this field

ICIAM 07 Rolf Jeltsch, 2009 The International Council for Industrial and Applied Mathematics ICIAM is the worldwide organization of societies which are dedicated primarily or significantly to applied and or industrial mathematics The ICIAM Congresses held every 4 years are run under the auspices of the Council with the aim to advance the applications of mathematics in all parts of the world The Sixth ICIAM Congress was held in Zurich Switzerland July 16 20 2007 and was attended by more than 3000 scientists from 47 countries This volume collects the invited lectures of this Congress the appreciations of the ICIAM Prize winners achievements and the Euler Lecture celebrating the 300th anniversary of Euler The authors of these papers are leading researchers in their fields rigorously selected by a distinguished international program committee The book presents an overview of contemporary applications of mathematics new perspectives and open problems Topics embrace analysis of and numerical methods for linear and nonlinear partial differential equations multiscale modeling nonlinear problems involving integral operators controllability and observability asymptotic solutions of Hamilton Jacobi equations contact problems in solid mechanics topology optimization of structures dissipation inequalities in systems theory greedy algorithms sampling in function space order value optimization parabolic partial differential equations and deterministic games Moreover particular applications involve risk in financial markets radar imaging brain dynamics and complex geometric optics applied to acoustics and electromagnetics

Bioinformatics Ron D. Appel, Ernest Feytmans, 2009

Biological research and recent technological advances have resulted in an enormous increase in research data that require large storage capacities powerful computing resources and accurate data analysis algorithms Bioinformatics is the field that provides these resources to life science researchers The Swiss Institute of Bioinformatics SIB which has celebrated its 10th anniversary in 2008 is an institution of national importance recognized worldwide for its state of the art work Organized as a federation of bioinformatics research groups from Swiss universities and research institutes the SIB provides services to the

life science community that are highly appreciated worldwide and coordinates research and education in bioinformatics nationwide The SIB plays a central role in life science research both in Switzerland and abroad by developing extensive and high quality bioinformatics resources that are essential for all life scientists Knowledge developed by SIB members in areas such as genomics proteomics and systems biology is directly transformed by academia and industry into innovative solutions to improve global health Such an astounding concentration of talent in a given field is unusual and unique in Switzerland This book provides an insight into some of the key areas of activity in bioinformatics in Switzerland With contributions from SIB members it covers both research work and major infrastructure efforts in genome and gene expression analysis investigations on proteins and proteomes evolutionary bioinformatics and modeling of biological systems Statistics for Spatio-Temporal Data Noel Cressie, Christopher K. Wikle, 2015-11-02 Winner of the 2013 DeGroot Prize A state of the art presentation of spatio temporal processes bridging classic ideas with modern hierarchical statistical modeling concepts and the latest computational methods Noel Cressie and Christopher K Wikle are also winners of the 2011 PROSE Award in the Mathematics category for the book Statistics for Spatio Temporal Data 2011 published by John Wiley and Sons The PROSE awards for Professional and Scholarly Excellence are given by the Association of American Publishers the national trade association of the US book publishing industry Statistics for Spatio Temporal Data has now been reprinted with small corrections to the text and the bibliography The overall content and pagination of the new printing remains the same the difference comes in the form of corrections to typographical errors editing of incomplete and missing references and some updated spatio temporal interpretations From understanding environmental processes and climate trends to developing new technologies for mapping public health data and the spread of invasive species there is a high demand for statistical analyses of data that take spatial temporal and spatio temporal information into account Statistics for Spatio Temporal Data presents a systematic approach to key quantitative techniques that incorporate the latest advances in statistical computing as well as hierarchical particularly Bayesian statistical modeling with an emphasis on dynamical spatio temporal models Cressie and Wikle supply a unique presentation that incorporates ideas from the areas of time series and spatial statistics as well as stochastic processes Beginning with separate treatments of temporal data and spatial data the book combines these concepts to discuss spatio temporal statistical methods for understanding complex processes Topics of coverage include Exploratory methods for spatio temporal data including visualization spectral analysis empirical orthogonal function analysis and LISAs Spatio temporal covariance functions spatio temporal kriging and time series of spatial processes Development of hierarchical dynamical spatio temporal models DSTMs with discussion of linear and nonlinear DSTMs and computational algorithms for their implementation Quantifying and exploring spatio temporal variability in scientific applications including case studies based on real world environmental data Throughout the book interesting applications demonstrate the relevance of the presented concepts Vivid full color graphics emphasize the visual nature of the topic and a related FTP site contains

supplementary material Statistics for Spatio Temporal Data is an excellent book for a graduate level course on spatio temporal statistics It is also a valuable reference for researchers and practitioners in the fields of applied mathematics engineering and the environmental and health sciences

Reviewing **Monte Carlo Strategies In Scientific Computing Springer Series In Statistics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Monte Carlo Strategies In Scientific Computing Springer Series In Statistics**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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