

SPRINGER TEXTS IN STATISTICS

# Monte Carlo Statistical Methods



Christian P. Robert  
George Casella



Springer

# Monte Carlo Statistical Methods

**Christian Robert, George Casella**



## Monte Carlo Statistical Methods:

*Monte Carlo Statistical Methods* Christian Robert, George Casella, 2013-03-14 Monte Carlo statistical methods particularly those based on Markov chains have now matured to be part of the standard set of techniques used by statisticians This book is intended to bring these techniques into the class room being we hope a self contained logical development of the subject with all concepts being explained in detail and all theorems etc having detailed proofs There is also an abundance of examples and problems relating the concepts with statistical practice and enhancing primarily the application of simulation techniques to statistical problems of various difficulties This is a textbook intended for a second year graduate course We do not assume that the reader has any familiarity with Monte Carlo techniques such as random variable generation or with any Markov chain theory We do assume that the reader has had a first course in statistical theory at the level of Statistical Inference by Casella and Berger 1990 Unfortunately a few times throughout the book a somewhat more advanced notion is needed We have kept these incidents to a minimum and have posted warnings when they occur While this is a book on simulation whose actual implementation must be processed through a computer no requirement is made on programming skills or computing abilities algorithms are presented in a program like format but in plain text rather than in a specific programming language Most of the examples in the book were actually implemented in C with the S Plus graphical interface

Monte Carlo Statistical Methods Christian Robert, George Casella, 2014-01-15 *Monte Carlo Statistical Methods* Christian Robert, George Casella, 2013-03-14 Monte Carlo statistical methods particularly those based on Markov chains are now an essential component of the standard set of techniques used by statisticians This new edition has been revised towards a coherent and flowing coverage of these simulation techniques with incorporation of the most recent developments in the field In particular the introductory coverage of random variable generation has been totally revised with many concepts being unified through a fundamental theorem of simulation There are five completely new chapters that cover Monte Carlo control reversible jump slice sampling sequential Monte Carlo and perfect sampling There is a more in depth coverage of Gibbs sampling which is now contained in three consecutive chapters The development of Gibbs sampling starts with slice sampling and its connection with the fundamental theorem of simulation and builds up to two stage Gibbs sampling and its theoretical properties A third chapter covers the multi stage Gibbs sampler and its variety of applications Lastly chapters from the previous edition have been revised towards easier access with the examples getting more detailed coverage This textbook is intended for a second year graduate course but will also be useful to someone who either wants to apply simulation techniques for the resolution of practical problems or wishes to grasp the fundamental principles behind those methods The authors do not assume familiarity with Monte Carlo techniques such as random variable generation with computer programming or with any Markov chain theory the necessary concepts are developed in Chapter 6 A solutions manual which covers approximately 40% of the problems is available for instructors who require the book for a course

Christian P Robert is Professor of Statistics in the Applied Mathematics Department at Universit Paris Dauphine France He is also Head of the Statistics Laboratory at the Center for Research in Economics and Statistics CREST of the National Institute for Statistics and Economic Studies INSEE in Paris and Adjunct Professor at Ecole Polytechnique He has written three other books and won the 2004 DeGroot Prize for The Bayesian Choice Second Edition Springer 2001 He also edited Discretization and MCMC Convergence Assessment Springer 1998 He has served as associate editor for the Annals of Statistics Statistical Science and the Journal of the American Statistical Association He is a fellow of the Institute of Mathematical Statistics and a winner of the Young Statistician Award of the Soci t de Statistique de Paris in 1995 George Casella is Distinguished Professor and Chair Department of Statistics University of Florida He has served as the Theory and Methods Editor of the Journal of the American Statistical Association and Executive Editor of Statistical Science He has authored three other textbooks Statistical Inference Second Edition 2001 with Roger L Berger Theory of Point Estimation 1998 with Erich Lehmann and Variance Components 1992 with Shayle R Searle and Charles E McCulloch He is a fellow of the Institute of Mathematical Statistics and the American Statistical Association and an elected fellow of the International Statistical Institute

Introducing Monte Carlo Methods with R Christian Robert, George Casella, 2009-11-24 Computational techniques based on simulation have now become an essential part of the statistician's toolbox It is thus crucial to provide statisticians with a practical understanding of those methods and there is no better way to develop intuition and skills for simulation than to use simulation to solve statistical problems Introducing Monte Carlo Methods with R covers the main tools used in statistical simulation from a programmer's point of view explaining the R implementation of each simulation technique and providing the output for better understanding and comparison While this book constitutes a comprehensive treatment of simulation methods the theoretical justification of those methods has been considerably reduced compared with Robert and Casella 2004 Similarly the more exploratory and less stable solutions are not covered here This book does not require a preliminary exposure to the R programming language or to Monte Carlo methods nor an advanced mathematical background While many examples are set within a Bayesian framework advanced expertise in Bayesian statistics is not required The book covers basic random generation algorithms Monte Carlo techniques for integration and optimization convergence diagnoses Markov chain Monte Carlo methods including Metropolis Hastings and Gibbs algorithms and adaptive algorithms All chapters include exercises and all R programs are available as an R package called mcmc The book appeals to anyone with a practical interest in simulation methods but no previous exposure It is meant to be useful for students and practitioners in areas such as statistics signal processing communications engineering control theory econometrics finance and more The programming parts are introduced progressively to be accessible to any reader 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      *Essentials of Monte Carlo Simulation* Nick T.

Thomopoulos,2012-12-19 *Essentials of Monte Carlo Simulation* focuses on the fundamentals of Monte Carlo methods using basic computer simulation techniques The theories presented in this text deal with systems that are too complex to solve analytically As a result readers are given a system of interest and constructs using computer code as well as algorithmic models to emulate how the system works internally After the models are run several times in a random sample way the data for each output variable s of interest is analyzed by ordinary statistical methods This book features 11 comprehensive chapters and discusses such key topics as random number generators multivariate random variates and continuous random variates Over 100 numerical examples are presented as part of the appendix to illustrate useful real world applications The text also contains an easy to read presentation with minimal use of difficult mathematical concepts Very little has been published in the area of computer Monte Carlo simulation methods and this book will appeal to students and researchers in the fields of Mathematics and Statistics      **Monte Carlo and Quasi-Monte Carlo Methods 2008** Pierre L' Ecuyer,Art B.

Owen,2010-01-14 This book represents the refereed proceedings of the Eighth International Conference on Monte Carlo MC and Quasi Monte Carlo QMC Methods in Scientific Computing held in Montreal Canada in July 2008 It covers the latest theoretical developments as well as important applications of these methods in different areas It contains two tutorials eight invited articles and 32 carefully selected articles based on the 135 contributed presentations made at the conference This conference is a major event in Monte Carlo methods and is the premiere event for quasi Monte Carlo and its combination with Monte Carlo This series of proceedings volumes is the primary outlet for quasi Monte Carlo research      **Handbook of Monte Carlo Methods** Dirk P. Kroese,Thomas Taimre,Zdravko I. Botev,2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today s numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach Handbook of Monte Carlo Methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi

Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author's own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

### **Statistical Methods in Molecular Evolution** Rasmus

Nielsen, 2006-05-06 In the field of molecular evolution inferences about past evolutionary events are made using molecular data from currently living species With the availability of genomic data from multiple related species molecular evolution has become one of the most active and fastest growing fields of study in genomics and bioinformatics Most studies in molecular evolution rely heavily on statistical procedures based on stochastic process modelling and advanced computational methods including high dimensional numerical optimization and Markov Chain Monte Carlo This book provides an overview of the statistical theory and methods used in studies of molecular evolution It includes an introductory section suitable for readers that are new to the field a section discussing practical methods for data analysis and more specialized sections discussing specific models and addressing statistical issues relating to estimation and model choice The chapters are written by the leaders of field and they will take the reader from basic introductory material to the state of the art statistical methods This book is suitable for statisticians seeking to learn more about applications in molecular evolution and molecular evolutionary biologists with an interest in learning more about the theory behind the statistical methods applied in the field The chapters of the book assume no advanced mathematical skills beyond basic calculus although familiarity with basic probability theory will help the reader Most relevant statistical concepts are introduced in the book in the context of their application in molecular evolution and the book should be accessible for most biology graduate students with an interest in quantitative methods and theory Rasmus Nielsen received his Ph D from the University of California at Berkeley in 1998 and after a postdoc at Harvard University he assumed a faculty position in Statistical Genomics at Cornell University He is currently an Ole R. Mer Fellow at the University of Copenhagen and holds a Sloan Research Fellowship His is an associate editor of the Journal of Molecular Evolution and has published more than fifty original papers in peer reviewed journals on the topic of this book From the reviews Overall this is a very useful book in an area of increasing importance Journal of the Royal Statistical Society I find Statistical Methods in Molecular Evolution very interesting and useful It delves into problems that were considered very difficult just several years ago the book is likely to stimulate the interest of statisticians that are unaware of this exciting field of applications It is my hope that it will also help the wet lab molecular evolutionist to better understand

mathematical and statistical methods Marek Kimmel for the Journal of the American Statistical Association September 2006 Who should read this book We suggest that anyone who deals with molecular data who does not and anyone who asks evolutionary questions who should not ought to consult the relevant chapters in this book Dan Graur and Dror Berel for Biometrics September 2006 Coalescence theory facilitates the merger of population genetics theory with phylogenetic approaches but still there are mostly two camps phylogeneticists and population geneticists Only a few people are moving freely between them Rasmus Nielsen is certainly one of these researchers and his work so far has merged many population genetic and phylogenetic aspects of biological research under the umbrella of molecular evolution Although Nielsen did not contribute a chapter to his book his work permeates all its chapters This book gives an overview of his interests and current achievements in molecular evolution In short this book should be on your bookshelf Peter Beerli for Evolution 60 2 2006

Nonparametric Statistical Methods Using R Graysen Cline, 2019-05-19 Nonparametric Statistical Methods Using R covers customary nonparametric methods and rank based examinations including estimation and deduction for models running from straightforward area models to general direct and nonlinear models for uncorrelated and corresponded reactions The creators underscore applications and measurable calculation They represent the methods with numerous genuine and mimicked information cases utilizing R including the bundles Rfit and npsm The book initially gives a diagram of the R dialect and essential factual ideas previously examining nonparametrics It presents rank based methods for one and two example issues strategies for relapse models calculation for general settled impacts ANOVA and ANCOVA models and time to occasion examinations The last two parts cover further developed material including high breakdown fits for general relapse models and rank based surmising for bunch associated information The book can be utilized as an essential content or supplement in a course on connected nonparametric or hearty strategies and as a source of perspective for scientists who need to execute nonparametric and rank based methods by and by Through various illustrations it demonstrates to perusers proper methodologies to apply these methods utilizing R Statistical Methods and Analysis Mr. Rohit Manglik, 2024-04-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels 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

**Statistical Methods for Physical Science**, 1994-12-13 This volume of Methods of Experimental Physics provides an extensive introduction to probability and statistics in many areas of the physical sciences with an emphasis on the emerging area of spatial statistics The scope of topics covered is wide ranging the text discusses a variety of the most commonly used classical methods and addresses newer methods that are applicable or potentially important The chapter authors motivate readers with their insightful discussions Examines basic probability including coverage of standard distributions time series models and Monte Carlo methods Describes statistical methods including basic inference goodness of fit maximum likelihood and least squares Addresses time series analysis including filtering and spectral analysis Includes simulations of physical experiments Features applications of statistics to atmospheric physics and radio astronomy Covers the increasingly important area of modern statistical computing

**A First Course in Bayesian Statistical Methods** Peter D. Hoff, 2009-06-02 A self contained introduction to probability exchangeability and Bayes rule provides a theoretical understanding of the applied material Numerous examples with R code that can be run as is allow the reader to perform the data analyses themselves The development of Monte Carlo and Markov chain Monte Carlo methods in the context of data analysis examples provides motivation for these computational methods

**Statistical Methods for QTL Mapping** Zehua Chen, 2013-11-01 While numerous advanced statistical approaches have recently been developed for quantitative trait loci QTL mapping the methods are scattered throughout the literature Statistical Methods for QTL Mapping brings together many recent statistical techniques that address the data complexity of QTL mapping After introducing basic genetics topics and statistical principles the author discusses the principles of quantitative genetics general statistical issues of QTL mapping commonly used one dimensional QTL mapping approaches and multiple interval mapping methods He then explains how to use a feature selection approach to tackle a QTL mapping problem with dense markers The book also provides comprehensive coverage of Bayesian models and MCMC algorithms and describes methods for multi trait QTL mapping and eQTL mapping including meta trait methods and multivariate sequential procedures This book emphasizes the modern statistical methodology for QTL mapping as well as the statistical issues that arise during this process It gives the necessary biological background for statisticians without training in genetics and likewise covers statistical thinking and principles for geneticists Written primarily for geneticists and statisticians specializing in QTL mapping the book can also be used as a supplement in graduate courses or for self study by PhD students working on QTL mapping projects

**Statistical Methods for Reliability Data** William Q. Meeker, Luis A. Escobar, Francis G. Pascual, 2022-01-24 An authoritative guide to the most recent advances in statistical methods for quantifying reliability Statistical Methods for Reliability Data Second Edition SMRD2 is an essential guide to the most widely used and recently developed statistical methods for reliability data analysis and reliability test planning Written by three experts in the area SMRD2 updates and extends the long established statistical techniques and

shows how to apply powerful graphical numerical and simulation based methods to a range of applications in reliability SMRD2 is a comprehensive resource that describes maximum likelihood and Bayesian methods for solving practical problems that arise in product reliability and similar areas of application SMRD2 illustrates methods with numerous applications and all the data sets are available on the book's website Also SMRD2 contains an extensive collection of exercises that will enhance its use as a course textbook The SMRD2's website contains valuable resources including R packages Stan model codes presentation slides technical notes information about commercial software for reliability data analysis and csv files for the 93 data sets used in the book's examples and exercises The importance of statistical methods in the area of engineering reliability continues to grow and SMRD2 offers an updated guide for exploring modeling and drawing conclusions from reliability data SMRD2 features Contains a wealth of information on modern methods and techniques for reliability data analysis Offers discussions on the practical problem solving power of various Bayesian inference methods Provides examples of Bayesian data analysis performed using the R interface to the Stan system based on Stan models that are available on the book's website Includes helpful technical problem and data analysis exercise sets at the end of every chapter Presents illustrative computer graphics that highlight data results of analyses and technical concepts Written for engineers and statisticians in industry and academia

**Statistical Methods for Reliability Data Second Edition** offers an authoritative guide to this important topic

**Safety Assessment of Composite Cylinders for Gas Storage by Statistical Methods** Georg W. Mair, 2017-08-10 Featuring a detailed analysis of current approval requirements and the relevant safety assessment methods for gas cylinders in general and with main focus on composite cylinders for storing compressed natural gas and hydrogen this book demonstrates how current regulations and standards limit the ability to reduce cost and weight Based on this data it then highlights the potential offered by the proposed approval procedure based on probabilistic safety assessment After addressing the economic potential of probabilistic safety assessments the book details working procedures and improving cycles and slow bursts as methods for assessing residual strength It then discusses methods for statistically evaluating test data as well as sample size and distribution character considerations A definition of sample strength is elaborated in terms of the performance sheets developed by the author On this basis it discusses safety as a property of service life and interpreted as an issue of degradation and explores aspects of artificial aging for simulating the end of life reliability level Lastly the book considers control and inspection aspects quality of production degradation prediction using destructive sample tests parallel to operation retesting periods and correcting for under and overestimates of safe lifetime Presented in schematic diagrams illustrations and tables this information enables manufacturers and operators to use this new approach in practice and supports the improvement of current regulations and standards

**Proceedings of the ISSEK94 Workshop on Mathematical and Statistical Methods in Artificial Intelligence** G. Della Riccia, R. Kruse, R. Viertl, 2014-05-04 In recent years it has become apparent that an important part of the theory of Artificial Intelligence is concerned with reasoning on the

basis of uncertain incomplete or inconsistent information Classical logic and probability theory are only partially adequate for this and a variety of other formalisms have been developed some of the most important being fuzzy methods possibility theory belief function theory non monotonic logics and modal logics The aim of this workshop was to contribute to the elucidation of similarities and differences between the formalisms mentioned above

*Stochastic Processes and Calculus Explained* Vikas Rathi, 2025-02-20 *Stochastic Processes and Calculus Explained* is an essential textbook designed to help readers understand and apply stochastic processes across various fields Written in clear accessible language this book provides a solid foundation in probability theory and calculus while diving into stochastic processes including random variables probability distributions Brownian motion stochastic integration and stochastic differential equations We emphasize the practical relevance of these concepts in finance physics engineering and biology Our guide illustrates how stochastic processes model uncertainty and randomness aiding in informed decision making outcome prediction and complex system analysis With real world examples and exercises we ensure readers can grasp and apply these concepts effectively The book offers a strong mathematical foundation covering key tools and techniques such as probability theory calculus and linear algebra essential for understanding stochastic processes Catering to readers of all backgrounds and expertise levels *Stochastic Processes and Calculus Explained* is ideal for beginners and experienced practitioners alike Its clear explanations intuitive coverage and comprehensive approach make it an invaluable resource for students researchers and professionals worldwide

**Statistical Methods in Quantum Optics 2** Howard J. Carmichael, 2009-04-25 *Statistical Methods in Quantum Optics 2 Non Classical Fields* continues the development of the methods used in quantum optics to treat open quantum systems and their fluctuations Its early chapters build upon the phase space methods introduced in the first volume *Statistical Methods in Quantum Optics 1 Matter Equations and Fokker Planck Equations* the difficulties these methods face in treating non classical light are exposed where the regime of large fluctuations failure of the system size expansion is shown to be particularly problematic Cavity QED is adopted as a natural vehicle for extending quantum noise theory into this regime In response to the issues raised the theory of quantum trajectories is presented as a universal approach to the treatment of fluctuations in open quantum systems This book presents its material at a level suitable for beginning researchers or students in an advanced course in quantum optics or a course in quantum mechanics or statistical physics that deals with open quantum systems The text is complemented by exercises and interspersed notes that point the reader to side issues or a deeper exploration of the material presented

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