

Statistics and Computing

James E. Gentle

Random Number Generation and Monte Carlo Methods



Springer

Random Number Generation And Monte Carlo Methods Statistics And Computing

Marcel A. Müller



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Random Number Generation and Monte Carlo Methods James E. Gentle, 2004-09-14 Monte Carlo simulation has become one of the most important tools in all fields of science. Simulation methodology relies on a good source of numbers that appear to be random. These pseudorandom numbers must pass statistical tests just as random samples would. Methods for producing pseudorandom numbers and transforming those numbers to simulate samples from various distributions are among the most important topics in statistical computing. This book surveys techniques of random number generation and the use of random numbers in Monte Carlo simulation. The book covers basic principles as well as newer methods such as parallel random number generation, nonlinear congruential generators, quasi-Monte Carlo methods, and Markov chain Monte Carlo. The best methods for generating random variates from the standard distributions are presented, but also general techniques useful in more complicated models and in novel settings are described. The emphasis throughout the book is on practical methods that work well in current computing environments. The book includes exercises and can be used as a text or supplementary text for various courses in modern statistics. It could serve as the primary text for a specialized course in statistical computing or as a supplementary text for a course in computational statistics and other areas of modern statistics that rely on simulation. The book, which covers recent developments in the field, could also serve as a useful reference for practitioners. Although some familiarity with probability and statistics is assumed, the book is accessible to a broad audience. The second edition is approximately 50% longer than the first edition. It includes advances in methods for parallel random number generation, universal methods for generation of nonuniform variates, perfect sampling, and software for random number generation.

Matrix Algebra James E. Gentle, 2007-08-06 Matrix algebra is one of the most important areas of mathematics for data analysis and for statistical theory. The first part of this book presents the relevant aspects of the theory of matrix algebra for applications in statistics. This part begins with the fundamental concepts of vectors and vector spaces, next covers the basic algebraic properties of matrices, then describes the analytic properties of vectors and matrices in the multivariate calculus, and finally discusses operations on matrices in solutions of linear systems and in eigenanalysis. This part is essentially self-contained. The second part of the book begins with a consideration of various types of matrices encountered in statistics, such as projection matrices and positive definite matrices, and describes the special properties of those matrices. The second part also describes some of the many applications of matrix theory in statistics, including linear models, multivariate analysis, and stochastic processes. The brief coverage in this part illustrates the matrix theory developed in the first part of the book. The first two parts of the book can be used as the text for a course in matrix algebra for statistics students or as a supplementary text for various courses in linear models or multivariate statistics. The third part of this book covers numerical linear algebra. It begins with a discussion of the basics of numerical computations and then describes accurate and efficient algorithms for factoring matrices, solving linear systems of equations, and extracting eigenvalues and

eigenvectors Although the book is not tied to any particular software system it describes and gives examples of the use of modern computer software for numerical linear algebra This part is essentially self contained although it assumes some ability to program in Fortran or C and or the ability to use R S Plus or Matlab This part of the book can be used as the text for a course in statistical computing or as a supplementary text for various courses that emphasize computations The book includes a large number of exercises with some solutions provided in an appendix

Random Number Generation and Monte Carlo Methods James E. Gentle, 2013-03-14 The role of Monte Carlo methods and simulation in all of the sciences has increased in importance during the past several years These methods are at the heart of the rapidly developing subdisciplines of computational physics computational chemistry and the other computational sciences The growing power of computers and the evolving simulation methodology have led to the recognition of computation as a third approach for advancing the natural sciences together with theory and traditional experimentation Monte Carlo is also a fundamental tool of computational statistics At the kernel of a Monte Carlo or simulation method is random number generation Generation of random numbers is also at the heart of many standard statistical methods The random sampling required in most analyses is usually done by the computer The computations required in Bayesian analysis have become viable because of Monte Carlo methods This has led to much wider applications of Bayesian statistics which in turn has led to development of new Monte Carlo methods and to refinement of existing procedures for random number generation

Monte Carlo Methods Malvin H. Kalos, Paula A. Whitlock, 2009-06-10 This introduction to Monte Carlo methods seeks to identify and study the unifying elements that underlie their effective application Initial chapters provide a short treatment of the probability and statistics needed as background enabling those without experience in Monte Carlo techniques to apply these ideas to their research The book focuses on two basic themes The first is the importance of random walks as they occur both in natural stochastic systems and in their relationship to integral and differential equations The second theme is that of variance reduction in general and importance sampling in particular as a technique for efficient use of the methods Random walks are introduced with an elementary example in which the modeling of radiation transport arises directly from a schematic probabilistic description of the interaction of radiation with matter Building on this example the relationship between random walks and integral equations is outlined The applicability of these ideas to other problems is shown by a clear and elementary introduction to the solution of the Schrödinger equation by random walks The text includes sample problems that readers can solve by themselves to illustrate the content of each chapter This is the second completely revised and extended edition of the successful monograph which brings the treatment up to date and incorporates the many advances in Monte Carlo techniques and their applications while retaining the original elementary but general approach

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

Computational Statistics ,2010-04-29 Computational inference is based on an approach to statistical methods that uses modern computational power to simulate distributional properties of estimators and test statistics This book describes computationally intensive statistical methods in a unified presentation emphasizing techniques such as the PDF decomposition that arise in a wide range of methods

PROBABILITY AND STATISTICS - Volume II Reinhard Viertl,2009-06-11 Probability and Statistics theme is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme with contributions from distinguished experts in the field discusses Probability and Statistics Probability is a standard mathematical concept to describe stochastic uncertainty Probability and Statistics can be considered as the two sides of a coin They consist of methods for modeling uncertainty and measuring real phenomena Today many important political health and economic decisions are based on statistics This theme is structured in five main topics Probability and Statistics Probability Theory Stochastic Processes and Random Fields Probabilistic Models and Methods Foundations of Statistics which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students

Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Computational Methods in Statistics and Econometrics Hisashi Tanizaki, 2004-01-21 Reflecting current technological capacities and analytical trends *Computational Methods in Statistics and Econometrics* showcases Monte Carlo and nonparametric statistical methods for models simulations analyses and interpretations of statistical and econometric data The author explores applications of Monte Carlo methods in Bayesian estimation state space modeling and bias correction of ordinary least squares in autoregressive models The book offers straightforward explanations of mathematical concepts hundreds of figures and tables and a range of empirical examples A CD ROM packaged with the book contains all of the source codes used in the text Random Number Generation and Monte Carlo Methods Springer, 2014-01-15

Introduction to Rare Event Simulation James Bucklew, 2013-03-09 This book is an attempt to present a unified theory of rare event simulation and the variance reduction technique known as importance sampling from the point of view of the probabilistic theory of large deviations This framework allows us to view a vast assortment of simulation problems from a single unified perspective It gives a great deal of insight into the fundamental nature of rare event simulation Unfortunately this area has a reputation among simulation practitioners of requiring a great deal of technical and probabilistic expertise In this text I have tried to keep the mathematical preliminaries to a minimum the only prerequisite is a single large deviation theorem dealing with sequences of R_d valued random variables This theorem and a proof are given in the text Large deviation theory is a burgeoning area of probability theory and many of the results in it can be applied to simulation problems Rather than try to be as complete as possible in the exposition of all possible aspects of the available theory I have tried to concentrate on demonstrating the methodology and the principal ideas in a fairly simple setting Madison Wisconsin 2003 James Antonio Bucklew Contents 1 Random Number Generation 1 1 1 Uniform Generators 1 1 2 Nonuniform Generation 8 1 2 1 The Inversion Method 8 1 2 2 The Acceptance Rejection Method 10 1 3 Discrete Distributions 13 1 3 1 Inversion by Truncation of a Continuous Analog 14 1 3 2 Acceptance Rejection 15 Monte Carlo and Quasi-Monte Carlo Methods 2000 Kai-Tai Fang, Fred J. Hickernell, Harald Niederreiter, 2011-06-28 This book represents the refereed proceedings of the Fourth International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing which was held at Hong Kong Baptist University in 2000 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 field **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 [Basic Concepts in Computational Physics](#) Benjamin A. Stickler,Ewald Schachinger,2016-03-21 This new edition is a concise introduction to the basic methods of computational physics Readers will discover the benefits of numerical methods for solving complex mathematical problems and for the direct simulation of physical processes The book is divided into two main parts Deterministic methods and stochastic methods in computational physics Based on concrete problems the first part discusses numerical differentiation and integration as well as the treatment of ordinary differential equations This is extended by a brief introduction to the numerics of partial differential equations The second part deals with the generation of random numbers summarizes the basics of stochastics and subsequently introduces Monte Carlo MC methods Specific emphasis is on MARKOV chain MC algorithms The final two chapters discuss data analysis and stochastic optimization All this is again motivated and augmented by applications from physics In addition the book offers a number of appendices to provide the reader with information on topics not discussed in the main text Numerous problems with worked out solutions chapter introductions and summaries together with a clear and application oriented style support the reader Ready to use C codes are provided online **Nuclear Computational Science** Yousry Azmy,Enrico Sartori,2010-04-15 Nuclear engineering has undergone extensive progress over the years In the past century colossal developments have been made and with specific reference to the mathematical theory and computational science underlying this discipline advances in areas such as high order discretization methods Krylov Methods and Iteration Acceleration have steadily grown Nuclear Computational Science A Century in Review addresses these topics and many more topics which hold special ties to the first half of the century and topics focused around the unique combination of nuclear engineering computational science and mathematical theory Comprising eight chapters Nuclear Computational Science A Century in Review incorporates a number of carefully selected issues representing a variety of problems providing the reader with a wealth of information in both a clear and concise manner The comprehensive nature of the coverage and the stature of the contributing authors combine to make this a unique landmark publication Targeting the medium to advanced level academic this book will appeal to researchers and students with an interest in the progression of mathematical theory and its application to nuclear computational science [Statistical Computing with R, Second Edition](#) Maria L. Rizzo,2019-02-21 Computational statistics and statistical computing are two areas that employ computational graphical and numerical approaches to solve statistical problems making the versatile R language an ideal computing environment for these fields This second edition continues to encompass the traditional core material of computational statistics with an **Statistical Computing in C++ and R** Randall L. Eubank,Ana

Kupresanin,2011-12-01 With the advancement of statistical methodology inextricably linked to the use of computers new methodological ideas must be translated into usable code and then numerically evaluated relative to competing procedures In response to this Statistical Computing in C and R concentrates on the writing of code rather than the development and study of numerical algorithms per se The book discusses code development in C and R and the use of these symbiotic languages in unison It emphasizes that each offers distinct features that when used in tandem can take code writing beyond what can be obtained from either language alone The text begins with some basics of object oriented languages followed by a boot camp on the use of C and R The authors then discuss code development for the solution of specific computational problems that are relevant to statistics including optimization numerical linear algebra and random number generation Later chapters introduce abstract data structures ADTs and parallel computing concepts The appendices cover R and UNIX Shell programming Features Includes numerous student exercises ranging from elementary to challenging Integrates both C and R for the solution of statistical computing problems Uses C code in R and R functions in C programs Provides downloadable programs available from the authors website The translation of a mathematical problem into its computational analog or analogs is a skill that must be learned like any other by actively solving relevant problems The text reveals the basic principles of algorithmic thinking essential to the modern statistician as well as the fundamental skill of communicating with a computer through the use of the computer languages C and R The book lays the foundation for original code development in a research environment

Statistical Computing Kennedy,1980-03-01 This book provides an introduction to statistical computing and a critical balanced presentation of the algorithms and computational methods used in software systems discussing techniques for implementing algorithms in a computer It is intended for graduate students in statistics

Statistical Computing William J. Kennedy,James E. Gentle,2021-06-23 In this book the authors have assembled the best techniques from a great variety of sources establishing a benchmark for the field of statistical computing Mathematics of Computation The text is highly readable and well illustrated with examples The reader who intends to take a hand in designing his own regression and multivariate packages will find a storehouse of information and a valuable resource in the field of statistical computing

Elements of Computational Statistics James E. Gentle,2006-04-18 Will provide a more elementary introduction to these topics than other books available Gentle is the author of two other Springer books

Statistical Computing with R Maria L. Rizzo,2007-11-15 Computational statistics and statistical computing are two areas that employ computational graphical and numerical approaches to solve statistical problems making the versatile R language an ideal computing environment for these fields One of the first books on these topics to feature R Statistical Computing with R covers the traditiona

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