

Approximating Integrals via Monte Carlo and Deterministic Methods

Michael Evans
and Tim Swartz

Approximating Integrals Via Monte Carlo And Deterministic Methods

Yuichi Mori



Approximating Integrals Via Monte Carlo And Deterministic Methods:

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 methods, 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.

Approximating Integrals Via Monte Carlo and Deterministic Methods Michael John Evans, T. Swartz, 2023 Integrals are one of the primary computational tools in mathematics and hence are of great importance in statistics, mathematical finance, computer science and engineering. This book covers all the most useful approximation techniques.

Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan Josef Dick, Frances Y. Kuo, Henryk Woźniakowski, 2018-05-23 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday. It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics. These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career. The book also presents state of the art knowledge in many computational fields such as quasi Monte Carlo and Monte Carlo methods for multivariate integration, multi level methods, finite element methods, uncertainty quantification, spherical designs and integration on the sphere, approximation and interpolation of multivariate functions, oscillatory integrals and in general in information based complexity and tractability as well as in a range of other topics. The book also tells the life story of the renowned mathematician, family man, colleague and friend who has been an inspiration to many of us. The reader may especially enjoy the story from the perspective of his family: his wife, his daughter and son as well as grandchildren who share their views of Ian. The clear message of the book is that Ian H Sloan has been a role model in science and life.

Bayesian Missing Data Problems Ming T. Tan, Guo-Liang Tian, Kai Wang Ng, 2009-08-26 Bayesian Missing Data Problems: EM, Data Augmentation and Noniterative Computation presents solutions to missing data problems through explicit or noniterative sampling calculation of Bayesian posteriors. The methods are based on the inverse Bayes formulae discovered by one of the authors in 1995. Applying the Bayesian approach to important real world problems.

Automatic Nonuniform Random Variate Generation Wolfgang Hörmann, Josef Leydold, Gerhard Derflinger, 2013-06-29 Non uniform random variate generation is an established research area in the intersection of mathematics, statistics and computer science. Although random variate generation with popular standard distributions have become part of every course on discrete event simulation and on Monte Carlo methods, the recent concept

of universal also called automatic or black box random variate generation can only be found dispersed in literature This new concept has great practical advantages that are little known to most simulation practitioners Being unique in its overall organization the book covers not only the mathematical and statistical theory but also deals with the implementation of such methods All algorithms introduced in the book are designed for practical use in simulation and have been coded and made available by the authors Examples of possible applications of the presented algorithms including option pricing VaR and Bayesian statistics are presented at the end of the book

Dirichlet and Related Distributions Kai Wang Ng, Guo-Liang Tian, Man-Lai Tang, 2011-05-03 The Dirichlet distribution appears in many areas of application which include modelling of compositional data Bayesian analysis statistical genetics and nonparametric inference This book provides a comprehensive review of the Dirichlet distribution and two extended versions the Grouped Dirichlet Distribution GDD and the Nested Dirichlet Distribution NDD arising from likelihood and Bayesian analysis of incomplete categorical data and survey data with non response The theoretical properties and applications are also reviewed in detail for other related distributions such as the inverted Dirichlet distribution Dirichlet multinomial distribution the truncated Dirichlet distribution the generalized Dirichlet distribution Hyper Dirichlet distribution scaled Dirichlet distribution mixed Dirichlet distribution Liouville distribution and the generalized Liouville distribution Key Features Presents many of the results and applications that are scattered throughout the literature in one single volume Looks at the most recent results such as survival function and characteristic function for the uniform distributions over the hyper plane and simplex distribution for linear function of Dirichlet components estimation via the expectation maximization gradient algorithm and application etc Likelihood and Bayesian analyses of incomplete categorical data by using GDD NDD and the generalized Dirichlet distribution are illustrated in detail through the EM algorithm and data augmentation structure Presents a systematic exposition of the Dirichlet multinomial distribution for multinomial data with extra variation which cannot be handled by the multinomial distribution S plus R codes are featured along with practical examples illustrating the methods Practitioners and researchers working in areas such as medical science biological science and social science will benefit from this book

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

Current Air Quality Issues Farhad Nejadkoorki, 2015-10-21 Air pollution is thus far one of the key environmental issues in urban areas Comprehensive air

quality plans are required to manage air pollution for a particular area. Consequently, air should be continuously sampled, monitored, and modeled to examine different action plans. Reviews and research papers describe air pollution in five main contexts: Monitoring, Modeling, Risk Assessment, Health, and Indoor Air Pollution. The book is recommended to experts interested in health and air pollution issues.

Bayesian and Frequentist Regression Methods Jon Wakefield, 2013-01-04

Bayesian and Frequentist Regression Methods provides a modern account of both Bayesian and frequentist methods of regression analysis. Many texts cover one or the other of the approaches, but this is the most comprehensive combination of Bayesian and frequentist methods that exists in one place. The two philosophical approaches to regression methodology are featured here as complementary techniques with theory and data analysis providing supplementary components of the discussion. In particular, methods are illustrated using a variety of data sets. The majority of the data sets are drawn from biostatistics, but the techniques are generalizable to a wide range of other disciplines.

Elements of Distribution Theory Thomas A. Severini, 2005-08-08

This detailed introduction to distribution theory uses no measure theory, making it suitable for students in statistics and econometrics as well as for researchers who use statistical methods. Good backgrounds in calculus and linear algebra are important, and a course in elementary mathematical analysis is useful but not required. An appendix gives a detailed summary of the mathematical definitions and results that are used in the book. Topics covered range from the basic distribution and density functions, expectation, conditioning, characteristic functions, cumulants, convergence in distribution, and the central limit theorem to more advanced concepts such as exchangeability, models with a group structure, asymptotic approximations to integrals, orthogonal polynomials, and saddlepoint approximations. The emphasis is on topics useful in understanding statistical methodology, thus parametric statistical models and the distribution theory associated with the normal distribution are covered comprehensively.

Random Process Analysis With R Marco Bittelli, Roberto Olmi, Rodolfo Rosa, 2022-10-27

Random process analysis (RPA) is used as a mathematical model in physics, chemistry, biology, computer science, information theory, economics, environmental science, and many other disciplines. Over time, it has become more and more important for the provision of computer code and data sets. This book presents the key concepts, theory, and computer code written in R, helping readers with limited initial knowledge of random processes to become confident in their understanding and application of these principles in their own research. Consistent with modern trends in university education, the authors make readers active learners with hands-on computer experiments in R code, directing them through RPA methods and helping them understand the underlying logic. Each subject is illustrated with real data collected in experiments performed by the authors or taken from key literature. As a result, the reader can promptly apply the analysis to their own data, making this book an invaluable resource for undergraduate and graduate students as well as professionals in physics, engineering, biophysical and environmental sciences, economics, and social sciences.

Intelligent Control Systems Using Computational Intelligence Techniques A.E. Ruano, 2005-07-18

Intelligent Control

techniques are becoming important tools in both academia and industry Methodologies developed in the field of soft computing such as neural networks fuzzy systems and evolutionary computation can lead to accommodation of more complex processes improved performance and considerable time savings and cost reductions Intelligent Control Systems using Computational Intelligence Techniques details the application of these tools to the field of control systems Each chapter gives an overview of current approaches in the topic covered with a set of the most important references in the field and then details the author's approach examining both the theory and practical applications

Biometrics - Volume II Susan R. Wilson, Conrad Burden, 2009-02-18 Biometrics 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 Biometry is a broad discipline covering all applications of statistics and mathematics to biology The Theme Biometrics is divided into areas of expertise essential for a proper application of statistical and mathematical methods to contemporary biological problems These volumes cover four main topics Data Collection and Analysis Statistical Methodology Computation Biostatistical Methods and Research Design and Selected Topics These 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

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

Applications of Discrete-time Markov Chains and Poisson Processes to Air Pollution Modeling and Studies Eliane Regina Rodrigues, Jorge Alberto Achcar, 2012-09-02 In this brief we consider some stochastic models that may be used to study problems related to environmental matters in particular air pollution The impact of exposure to air pollutants on people's health is a very clear and well documented subject Therefore it is very important to obtain ways to predict or explain the behaviour of pollutants in general Depending on the type of question that one is interested in answering there are several ways of studying that problem Among them we may quote analysis of the time series of the pollutants measurements analysis of the information obtained directly from the data for instance daily weekly or monthly averages and standard deviations Another way to study the behaviour of pollutants in general is through mathematical models In the mathematical framework we may have for instance deterministic or stochastic models The type of models that we are going to consider in this brief are the stochastic ones

Bayesian Estimation and Tracking Anton J.

Haug,2012-05-29 A practical approach to estimating and tracking dynamic systems in real world applications Much of the literature on performing estimation for non Gaussian systems is short on practical methodology while Gaussian methods often lack a cohesive derivation Bayesian Estimation and Tracking addresses the gap in the field on both accounts providing readers with a comprehensive overview of methods for estimating both linear and nonlinear dynamic systems driven by Gaussian and non Gaussian noises Featuring a unified approach to Bayesian estimation and tracking the book emphasizes the derivation of all tracking algorithms within a Bayesian framework and describes effective numerical methods for evaluating density weighted integrals including linear and nonlinear Kalman filters for Gaussian weighted integrals and particle filters for non Gaussian cases The author first emphasizes detailed derivations from first principles of each estimation method and goes on to use illustrative and detailed step by step instructions for each method that makes coding of the tracking filter simple and easy to understand Case studies are employed to showcase applications of the discussed topics In addition the book supplies block diagrams for each algorithm allowing readers to develop their own MATLAB toolbox of estimation methods Bayesian Estimation and Tracking is an excellent book for courses on estimation and tracking methods at the graduate level The book also serves as a valuable reference for research scientists mathematicians and engineers seeking a deeper understanding of the topics

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

Survey of Sampling-based Methods for Uncertainty and Sensitivity Analysis Jon C. Helton, C. B. Storlie, 2006

Handbook of Computational Statistics James E. Gentle, Wolfgang Karl Härdle, Yuichi Mori, 2012-07-06 The Handbook of Computational Statistics Concepts and Methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters addressing recent work in the field of computational statistics This new edition is divided into 4 parts in the same way as the first edition It begins with How Computational Statistics became the backbone of modern data science Ch 1 an overview of the field of Computational Statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research The second part Chs 2 15 presents several topics in the supporting field of statistical computing Emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed The third part Chs 16 33 focuses on statistical methodology Special attention is given to smoothing iterative

procedures simulation and visualization of multivariate data Lastly a set of selected applications Chs 34-38 like Bioinformatics Medical Imaging Finance Econometrics and Network Intrusion Detection highlight the usefulness of computational statistics in real world applications *Statistics in Action* Jerald F. Lawless, 2014-03-03 Commissioned by the Statistical Society of Canada SSC *Statistics in Action* A Canadian Outlook helps both general readers and users of statistics better appreciate the scope and importance of statistics It presents the ways in which statistics is used while highlighting key contributions that Canadian statisticians are making to science techno

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