

Lecture Notes in Statistics

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**Peter Hellekalek
Gerhard Larcher Editors**

Random and Quasi-Random Point Sets



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Random And Quasi Random Point Sets

Peter Hellekalek, Gerhard Larcher



Random And Quasi Random Point Sets:

Random and Quasi-Random Point Sets Peter Hellekalek, Gerhard Larcher, 2012-12-06 This volume is a collection of survey papers on recent developments in the fields of quasi Monte Carlo methods and uniform random number generation We will cover a broad spectrum of questions from advanced metric number theory to pricing financial derivatives The Monte Carlo method is one of the most important tools of system modeling Deterministic algorithms so called uniform random number generators are used to produce the input for the model systems on computers Such generators are assessed by theoretical a priori and by empirical tests In the a priori analysis we study figures of merit that measure the uniformity of certain high dimensional random point sets The degree of uniformity is strongly related to the degree of correlations within the random numbers The quasi Monte Carlo approach aims at improving the rate of convergence in the Monte Carlo method by number theoretic techniques It yields deterministic bounds for the approximation error The main mathematical tool here are so called low discrepancy sequences These quasi random points are produced by deterministic algorithms and should be as super uniformly distributed as possible Hence both in uniform random number generation and in quasi Monte Carlo methods we study the uniformity of deterministically generated point sets in high dimensions By a common abuse of language one speaks of random and quasi random point sets The central questions treated in this book are i how to generate ii how to analyze and iii how to apply such high dimensional point sets Random and Quasi-Random Point Sets Peter

Hellekalek, Gerhard Larcher, 1998-10-09 This volume is a collection of survey papers on recent developments in the fields of quasi Monte Carlo methods and uniform random number generation We will cover a broad spectrum of questions from advanced metric number theory to pricing financial derivatives The Monte Carlo method is one of the most important tools of system modeling Deterministic algorithms so called uniform random number generators are used to produce the input for the model systems on computers Such generators are assessed by theoretical a priori and by empirical tests In the a priori analysis we study figures of merit that measure the uniformity of certain high dimensional random point sets The degree of uniformity is strongly related to the degree of correlations within the random numbers The quasi Monte Carlo approach aims at improving the rate of convergence in the Monte Carlo method by number theoretic techniques It yields deterministic bounds for the approximation error The main mathematical tool here are so called low discrepancy sequences These quasi random points are produced by deterministic algorithms and should be as super uniformly distributed as possible Hence both in uniform random number generation and in quasi Monte Carlo methods we study the uniformity of deterministically generated point sets in high dimensions By a common abuse of language one speaks of random and quasi random point sets The central questions treated in this book are i how to generate ii how to analyze and iii how to apply such high dimensional point sets **Monte Carlo and Quasi-Monte Carlo Methods 2012** Josef Dick, Frances Y. Kuo, Gareth W. Peters, Ian H.

Sloan, 2013-12-05 This book represents the refereed proceedings of the Tenth International Conference on Monte Carlo and

Quasi Monte Carlo Methods in Scientific Computing that was held at the University of New South Wales Australia in February 2012 These biennial conferences are major events for Monte Carlo and the premiere event for quasi Monte Carlo research The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods The reader will be provided with information on latest developments in these very active areas The book is an excellent reference for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance statistics and computer graphics

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

Into a Deeper Understanding of Evolutionary Computing: Exploration, Exploitation, and Parameter Control Abdul Hanif Abdul Halim, Swagatam Das, Idris Ismail, 2024-11-11 This book delves into fundamental and advanced strategies for enhancing evolutionary and metaheuristic algorithms focusing on the crucial balance between exploration and exploitation in search mechanisms As technological advancements increase optimization complexity effectively managing this balance becomes essential for achieving optimal solutions within reasonable computational resources The book's distinctive structure organizes content according to optimization stages and processes offering a comprehensive discussion of various approaches supported by extensive literature The authors note a scarcity of literature addressing the trade offs between exploration and exploitation with contemporary references making this work particularly valuable It aims to deepen the reader's understanding of evolutionary computing emphasizing exploration exploitation and parameter control It is relevant not only to algorithm developers and the evolutionary computation community but also to students and researchers across scientific disciplines The book is designed to be accessible to those without extensive algorithm development backgrounds providing theoretical and practical insights into optimization methods

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 help 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.

Monte Carlo Methods in Financial Engineering Paul Glasserman, 2013-03-09 Monte Carlo simulation has become an essential tool in the pricing of derivative securities and in risk management. These applications have in turn stimulated research into new Monte Carlo methods and renewed interest in some older techniques. This book develops the use of Monte Carlo methods in finance and it also uses simulation as a vehicle for presenting models and ideas from financial engineering. It divides roughly into three parts. The first part develops the fundamentals of Monte Carlo methods, the foundations of derivatives pricing, and the implementation of several of the most important models used in financial engineering. The next part describes techniques for improving simulation accuracy and efficiency. The final third of the book addresses special topics: estimating price sensitivities, valuing American options, and measuring market risk and credit risk in financial portfolios. The most important prerequisite is familiarity with the mathematical tools used to specify and analyze continuous time models in finance, in particular the key ideas of stochastic calculus. Prior exposure to the basic principles of option pricing is useful but not essential. The book is aimed at graduate students in financial engineering, researchers in Monte Carlo simulation, and practitioners implementing models in industry. Mathematical Reviews 2004: this book is very comprehensive, up-to-date, and useful tool for those who are interested in implementing Monte Carlo methods in a financial

context **Monte Carlo and Quasi-Monte Carlo Methods** Ronald Cools,Dirk Nuyens,2016-06-13 This book presents the refereed proceedings of the Eleventh International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of Leuven Belgium in April 2014 These biennial conferences are major events for Monte Carlo and quasi Monte Carlo researchers The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods Offering information on the latest developments in these very active areas this book is an excellent reference resource for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance statistics and computer graphics 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 Modeling Uncertainty Moshe Dror,Pierre L'Ecuyer,Ferenc Szidarovszky,2019-11-05 Modeling Uncertainty An Examination of Stochastic Theory Methods and Applications is a volume undertaken by the friends and colleagues of Sid Yakowitz in his honor Fifty internationally known scholars have collectively contributed 30 papers on modeling uncertainty to this volume Each of these papers was carefully reviewed and in the majority of cases the original submission was revised before being accepted for publication in the book The papers cover a great variety of topics in probability statistics economics stochastic optimization control theory regression analysis simulation stochastic programming Markov decision process application in the HIV context and others There are papers with a theoretical emphasis and others that focus on applications A number of papers survey the work in a particular area and in a few papers the authors present their personal view of a topic It is a book with a considerable number of expository articles which are accessible to a nonexpert a graduate student in mathematics statistics engineering and economics departments or just anyone with some mathematical background who is interested in a preliminary exposition of a

particular topic Many of the papers present the state of the art of a specific area or represent original contributions which advance the present state of knowledge In sum it is a book of considerable interest to a broad range of academic researchers and students of stochastic systems

Handbooks in Operations Research and Management Science: Simulation

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

Spatial Analysis in Geomorphology Richard J. Chorley, 2019-04-10

Originally published in 1972 This book covers from linear statistical methods regression and variance analysis to multivariate methods to wider spatial analytic techniques in which a clear association is maintained between quantitative data and the spatial coordinates which locate them The purpose of this volume is to highlight this coherent area of scholarship under the general headings of spatial point systems networks continuous distributions partitioning and simulation Seventeen authors from Britain and the United States have been brought together to produce a book whose attention is on the body of spatial techniques necessary to enable the building of dynamic spatial models of landforms which formed the keystone of much geomorphic work in future years

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

75 Years of Mathematics of Computation Susanne C. Brenner, Igor E. Shparlinski, Chi-Wang Shu, Daniel Szyld, 2020-07-29 The year 2018 marked the 75th anniversary of the founding of Mathematics of Computation one of the four primary research journals published by the American Mathematical Society and the oldest research journal devoted to computational mathematics To celebrate this milestone the symposium Celebrating 75 Years of Mathematics of Computation was held from November 1 3 2018 at the Institute for Computational and Experimental Research in Mathematics ICERM Providence Rhode Island The sixteen papers in this volume written by the symposium speakers and editors of the journal include both survey articles and new contributions On the discrete side there are four papers covering topics in computational number theory and computational algebra On the continuous side there are twelve papers covering topics in machine learning high dimensional approximations nonlocal and fractional elliptic problems gradient flows hyperbolic conservation laws Maxwell's equations Stokes's equations a posteriori error estimation and iterative methods Together they provide a snapshot of significant achievements in the past quarter century in computational mathematics and also in important current trends

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

Physics Computing '92: Proceedings Of The 4th International Conference Jaroslav Nadrchal, Robert A De Groot, 1993-05-12 This meeting addresses all aspects of computational methodology with applications to most branches of physics especially massively parallel computing symbolic computing Monte Carlo simulations of quantum systems neuro computing fluids and plasmas physics education mesoscopic physics dynamical systems molecular dynamics Monte Carlo techniques etc

Randomized Algorithms for Analysis and Control of Uncertain Systems Roberto Tempo, Giuseppe Calafiore, Fabrizio Dabbene, 2005-09-05 Moving on from earlier stochastic and robust control paradigms this book introduces the fundamentals of probabilistic methods in the analysis and design of uncertain systems The use of randomized algorithms guarantees a reduction in the computational complexity of classical robust control algorithms and in the conservativeness of methods like H_∞ control Features self contained treatment explaining randomized algorithms from their genesis in the principles of probability theory to their use for robust analysis and controller synthesis comprehensive treatment of sample generation including consideration of the difficulties involved in obtaining independent and identically distributed samples applications in congestion control of high

speed communications networks and the stability of quantized sampled data systems This monograph will be of interest to theorists concerned with robust and optimal control techniques and to all control engineers dealing with system uncertainties

Computational Science — ICCS 2001 Vassil N. Alexandrov, Jack J. Dongarra, Benjoe A. Juliano, Rene S. Renner, C.J. Kenneth Tan, 2003-05-15 LNCS volumes 2073 and 2074 contain the proceedings of the International Conference on Computational Science ICCS 2001 held in San Francisco California May 27 31 2001 The two volumes consist of more than 230 contributed and invited papers that reflect the aims of the conference to bring together researchers and scientists from mathematics and computer science as basic computing disciplines researchers from various application areas who are pioneering advanced application of computational methods to sciences such as physics chemistry life sciences and engineering arts and humanitarian fields along with software developers and vendors to discuss problems and solutions in the area to identify new issues and to shape future directions for research as well as to help industrial users apply various advanced computational techniques

Monte Carlo and Quasi-Monte Carlo Methods 1996 Harald Niederreiter, Peter Hellekalek, Gerhard Larcher, Peter Zinterhof, 2012-12-06 Monte Carlo methods are numerical methods based on random sampling and quasi Monte Carlo methods are their deterministic versions This volume contains the refereed proceedings of the Second International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing which was held at the University of Salzburg Austria from July 9 12 1996 The conference was a forum for recent progress in the theory and the applications of these methods The topics covered in this volume range from theoretical issues in Monte Carlo and simulation methods low discrepancy point sets and sequences lattice rules and pseudorandom number generation to applications such as numerical integration numerical linear algebra integral equations binary search global optimization computational physics mathematical finance and computer graphics These proceedings will be of interest to graduate students and researchers in Monte Carlo and quasi Monte Carlo methods to numerical analysts and to practitioners of simulation methods

Probabilistic Diophantine Approximation József Beck, 2014-10-06 This book gives a comprehensive treatment of random phenomena and distribution results in diophantine approximation with a particular emphasis on quadratic irrationals It covers classical material on the subject as well as many new results developed by the author over the past decade A range of ideas from other areas of mathematics are brought to bear with surprising connections to topics such as formulae for class numbers special values of L functions and Dedekind sums Care is taken to elaborate difficult proofs by motivating major steps and accompanying them with background explanations enabling the reader to learn the theory and relevant techniques Written by one of the acknowledged experts in the field Probabilistic Diophantine Approximation is presented in a clear and informal style with sufficient detail to appeal to both advanced students and researchers in number theory

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