

EQUATIONS, PROBABILITY & ALGORITHMS

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Probability And Algorithms

Micha Hofri



Probability And Algorithms:

Probability and Algorithms National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Panel on Probability and Algorithms, 1992-02-01 Some of the hardest computational problems have been successfully attacked through the use of probabilistic algorithms which have an element of randomness to them Concepts from the field of probability are also increasingly useful in analyzing the performance of algorithms broadening our understanding beyond that provided by the worst case or average case analyses This book surveys both of these emerging areas on the interface of the mathematical sciences and computer science It is designed to attract new researchers to this area and provide them with enough background to begin explorations of their own

Computational Probability John H. Drew, Diane L. Evans, Andrew G. Glen, Lawrence Leemis, 2008-01-08 This title organizes computational probability methods into a systematic treatment The book examines two categories of problems Algorithms for Continuous Random Variables covers data structures and algorithms transformations of random variables and products of independent random variables Algorithms for Discrete Random Variables discusses data structures and algorithms sums of independent random variables and order statistics *Probability and Computing* Michael Mitzenmacher, Eli Upfal, 2005-01-31 Randomization and probabilistic techniques play an important role in modern computer science with applications ranging from combinatorial optimization and machine learning to communication networks and secure protocols This 2005 textbook is designed to accompany a one or two semester course for advanced undergraduates or beginning graduate students in computer science and applied mathematics It gives an excellent introduction to the probabilistic techniques and paradigms used in the development of probabilistic algorithms and analyses It assumes only an elementary background in discrete mathematics and gives a rigorous yet accessible treatment of the material with numerous examples and applications The first half of the book covers core material including random sampling expectations Markov's inequality Chebyshev's inequality Chernoff bounds the probabilistic method and Markov chains The second half covers more advanced topics such as continuous probability applications of limited independence entropy Markov chain Monte Carlo methods and balanced allocations With its comprehensive selection of topics along with many examples and exercises this book is an indispensable teaching tool

Discrete Probability and Algorithms David Aldous, Persi Diaconis, Joel Spencer, J. Michael Steele, 2012-12-06 Discrete probability theory and the theory of algorithms have become close partners over the last ten years though the roots of this partnership go back much longer The papers in this volume address the latest developments in this active field They are from the IMA Workshops Probability and Algorithms and The Finite Markov Chain Renaissance They represent the current thinking of many of the world's leading experts in the field Researchers and graduate students in probability computer science combinatorics and optimization theory will all be interested in this collection of articles The techniques developed and surveyed in this volume are still undergoing rapid development and many

of the articles of the collection offer an expositionally pleasant entree into a research area of growing importance

Probabilistic Analysis of Algorithms Micha Hofri, 1987-09-14 Probabilistic Analysis of Algorithms begins with a presentation of the tools of the trade currently used in probabilistic analyses and continues with an applications section in which these tools are used in the analysis of selected algorithms. The tools section of the book provides the reader with an arsenal of analytic and numeric computing methods which are then applied to several groups of algorithms to analyze their running time or storage requirements characteristics. Topics covered in the applications section include sorting, communications network protocols and bin packing. While the discussion of the various algorithms is sufficient to motivate their structure, the emphasis throughout is on the probabilistic estimation of their operation under distributional assumptions on their input. Probabilistic Analysis of Algorithms assumes a working knowledge of engineering mathematics drawing on real and complex analysis, combinatorics and probability theory. While the book is intended primarily as a text for the upper undergraduate and graduate student levels, it contains a wealth of material and should also prove an important reference for researchers. As such, it is addressed to computer scientists, mathematicians, operations researchers and electrical and industrial engineers who are interested in evaluating the probable operation of algorithms rather than their worst case behavior.

Algorithmic Methods in Probability Marcel F. Neuts, 1977 Numerical Fourier inversion, Computation of stationary measures for infinite Markov chains, Approximating percentage points of statistics expressible as maxima, Simulating stable stochastic systems, selecting the best system, Allowance for correlation in setting simulation run length via ranking and selection procedures, Computational experience with some nonlinear optimization algorithms in deriving maximum likelihood estimates for the three parameter Weibull distribution, A Bayesian algorithm incorporating inspector errors for quality control and auditing, Statistical inferences for a stochastic epidemic model, proposed Numerical methods in separable queueing networks, Numerical methods applicable to a production line with stochastic servers, A recursive algorithm for computing serial correlations of time in an M/G/1 Queue, Algorithms for the waiting times distributions under various queue disciplines in the M/G/1 queue with service time distributions of phase type, The steady state solution of a heterogeneous server queue with Erlang service time.

Algorithms and Data Structures Helmut Knebl, 2020-10-31 This is a central topic in any computer science curriculum. To distinguish this textbook from others, the author considers probabilistic methods as being fundamental for the construction of simple and efficient algorithms and in each chapter at least one problem is solved using a randomized algorithm. Data structures are discussed to the extent needed for the implementation of the algorithms. The specific algorithms examined were chosen because of their wide field of application. This book originates from lectures for undergraduate and graduate students. The text assumes experience in programming algorithms, especially with elementary data structures such as chained lists, queues and stacks. It also assumes familiarity with mathematical methods although the author summarizes some basic notations and results from probability theory and related mathematical

terminology in the appendices He includes many examples to explain the individual steps of the algorithms and he concludes each chapter with numerous exercises

Probability and Computing Michael Mitzenmacher, Eli Upfal, 2017-07-03 Greatly expanded this new edition requires only an elementary background in discrete mathematics and offers a comprehensive introduction to the role of randomization and probabilistic techniques in modern computer science Newly added chapters and sections cover topics including normal distributions sample complexity VC dimension Rademacher complexity power laws and related distributions cuckoo hashing and the Lovasz Local Lemma Material relevant to machine learning and big data analysis enables students to learn modern techniques and applications Among the many new exercises and examples are programming related exercises that provide students with excellent training in solving relevant problems This book provides an indispensable teaching tool to accompany a one or two semester course for advanced undergraduate students in computer science and applied mathematics

Probabilistic Methods for Algorithmic Discrete Mathematics Michel Habib, Colin

McDiarmid, Jorge Ramirez-Alfonsin, Bruce Reed, 2010-08-18 Leave nothing to chance This cliché embodies the common belief that randomness has no place in carefully planned methodologies every step should be spelled out each i dotted and each t crossed In discrete mathematics at least nothing could be further from the truth Introducing random choices into algorithms can improve their performance The application of probabilistic tools has led to the resolution of combinatorial problems which had resisted attack for decades The chapters in this volume explore and celebrate this fact Our intention was to bring together for the first time accessible discussions of the disparate ways in which probabilistic ideas are enriching discrete mathematics These discussions are aimed at mathematicians with a good combinatorial background but require only a passing acquaintance with the basic definitions in probability e g expected value conditional probability A reader who already has a firm grasp on the area will be interested in the original research novel syntheses and discussions of ongoing developments scattered throughout the book Some of the most convincing demonstrations of the power of these techniques are randomized algorithms for estimating quantities which are hard to compute exactly One example is the randomized algorithm of Dyer Frieze and Kannan for estimating the volume of a polyhedron To illustrate these techniques we consider a simple related problem Suppose S is some region of the unit square defined by a system of polynomial inequalities $P_i(x, y) \leq 0$

Randomized Algorithms Rajeev Motwani, Prabhakar Raghavan, 1995-08-25 For many applications a randomized algorithm is either the simplest algorithm available or the fastest or both This tutorial presents the basic concepts in the design and analysis of randomized algorithms The first part of the book presents tools from probability theory and probabilistic analysis that are recurrent in algorithmic applications Algorithmic examples are given to illustrate the use of each tool in a concrete setting In the second part of the book each of the seven chapters focuses on one important area of application of randomized algorithms data structures geometric algorithms graph algorithms number theory enumeration parallel algorithms and on line algorithms A comprehensive and representative selection of the algorithms in these areas is also given This book should

prove invaluable as a reference for researchers and professional programmers as well as for students *Mathematics and Computer Science* Danièle Gardy, 2000 This is the first book where mathematics and computer science are directly confronted and joined to tackle intricate problems in computer science with deep mathematical approaches It contains a collection of refereed papers presented at the Colloquium on Mathematics and Computer Science held at the University of Versailles St Quentin on September 18-20, 2000 The colloquium was a meeting place for researchers in mathematics and computer science and thus an important opportunity to exchange ideas and points of view and to present new approaches and new results in the common areas such as algorithms analysis trees combinatorics optimization performance evaluation and probabilities The book is intended for a large public in applied mathematics discrete mathematics and computer science including researchers teachers graduate students and engineers It provides an overview of the current questions in computer science and related modern mathematical methods The range of applications is very wide and reaches beyond computer science

Algorithms for Random Generation and Counting: A Markov Chain Approach A. Sinclair, 2012-12-06 This monograph is a slightly revised version of my PhD thesis completed in the Department of Computer Science at the University of Edinburgh in June 1988 with an additional chapter summarising more recent developments Some of the material has appeared in the form of papers 50-88 The underlying theme of the monograph is the study of two classical problems counting the elements of a finite set of combinatorial structures and generating them uniformly at random In their exact form these problems appear to be intractable for many important structures so interest has focused on finding efficient randomised algorithms that solve them approximately with a small probability of error For most natural structures the two problems are intimately connected at this level of approximation so it is natural to study them together At the heart of the monograph is a single algorithmic paradigm simulate a Markov chain whose states are combinatorial structures and which converges to a known probability distribution over them This technique has applications not only in combinatorial counting and generation but also in several other areas such as statistical physics and combinatorial optimisation The efficiency of the technique in any application depends crucially on the rate of convergence of the Markov chain

Foundations of Probabilistic Logic Programming Fabrizio Riguzzi, 2023-07-07 Since its birth the field of Probabilistic Logic Programming has seen a steady increase of activity with many proposals for languages and algorithms for inference and learning This book aims at providing an overview of the field with a special emphasis on languages under the Distribution Semantics one of the most influential approaches The book presents the main ideas for semantics inference and learning and highlights connections between the methods Many examples of the book include a link to a page of the web application <http://cplint.eu> where the code can be run online This 2nd edition aims at reporting the most exciting novelties in the field since the publication of the 1st edition The semantics for hybrid programs with function symbols was placed on a sound footing Probabilistic Answer Set Programming gained a lot of interest together with the studies on the complexity of inference

Algorithms for solving the MPE and MAP tasks are now available Inference for hybrid programs has changed dramatically with the introduction of Weighted Model Integration With respect to learning the first approaches for neuro symbolic integration have appeared together with algorithms for learning the structure for hybrid programs Moreover given the cost of learning PLPs various works proposed language restrictions to speed up learning and improve its scaling [Introduction to Quantum Algorithms](#) Johannes A. Buchmann,2024-03-18 Quantum algorithms are among the most important interesting and promising innovations in information and communication technology They pose a major threat to today's cybersecurity and at the same time promise great benefits by potentially solving previously intractable computational problems with reasonable effort The theory of quantum algorithms is based on advanced concepts from computer science mathematics and physics [Introduction to Quantum Algorithms](#) offers a mathematically precise exploration of these concepts accessible to those with a basic mathematical university education while also catering to more experienced readers This comprehensive book is suitable for self study or as a textbook for one or two semester introductory courses on quantum computing algorithms Instructors can tailor their approach to emphasize theoretical understanding and proofs or practical applications of quantum algorithms depending on the course's goals and timeframe [Introduction to Cryptographic Definitions](#) Fuchun Guo,Willy Susilo,Khoa Nguyen,Xiaofeng Chen,Zhen Zhao,2025-06-16 Cryptographic definitions are often abstract and complex making them challenging for beginners to understand and apply This concise textbook resource provides a structured introduction to cryptographic definitions explaining the syntax definitions and security definitions of cryptographic primitives It builds foundational knowledge by covering essential mathematical concepts and formal definitions in cryptology Through a carefully designed learning curve readers will grasp key elements why they are defined this way and how new definitions are developed The book's presentation enables readers to validate and propose cryptographic definitions offering a step by step guide to understanding them Topics and features if supportLists endif Covers all essential components of cryptographic definitions from sets and functions making the subject accessible to beginners if supportLists endif Introduces intermediate concepts to smooth the transition from basic principles to formal definitions if supportLists endif Equips readers with the skills to validate and propose cryptographic definitions linking theory with research if supportLists endif Minimizes unnecessary complexity while retaining depth thereby ensuring a smooth learning experience Advanced undergraduate students security engineers and professionals interested in the formal foundations of cryptographic definitions will find the work an invaluable guide The text is also an ideal reference for graduate students and early stage researchers in cryptology and computer security [Distributed Algorithms, second edition](#) Wan Fokkink,2018-03-02 The new edition of a guide to distributed algorithms that emphasizes examples and exercises rather than the intricacies of mathematical models This book offers students and researchers a guide to distributed algorithms that emphasizes examples and exercises rather than the intricacies of mathematical models It avoids mathematical argumentation often a stumbling block for students teaching

algorithmic thought rather than proofs and logic This approach allows the student to learn a large number of algorithms within a relatively short span of time Algorithms are explained through brief informal descriptions illuminating examples and practical exercises The examples and exercises allow readers to understand algorithms intuitively and from different perspectives Proof sketches arguing the correctness of an algorithm or explaining the idea behind fundamental results are also included The algorithms presented in the book are for the most part classics selected because they shed light on the algorithmic design of distributed systems or on key issues in distributed computing and concurrent programming This second edition has been substantially revised A new chapter on distributed transaction offers up to date treatment of database transactions and the important evolving area of transactional memory A new chapter on security discusses two exciting new topics blockchains and quantum cryptography Sections have been added that cover such subjects as rollback recovery fault tolerant termination detection and consensus for shared memory An appendix offers pseudocode descriptions of many algorithms Solutions and slides are available for instructors Distributed Algorithms can be used in courses for upper level undergraduates or graduate students in computer science or as a reference for researchers in the field

Modeling the Internet and the Web Pierre Baldi, Paolo Frasconi, Padhraic Smyth, 2003-07-07 Despite its haphazard growth the Web hides powerful underlying regularities from the organization of its links to the patterns found in its use by millions of users Probabilistic modelling allows many of these regularities to be predicted on the basis of theoretical models based on statistical methodology

Probability Theory and Computer Science Guy Louchard, Guy Latouche, 1983

The Probabilistic Method Noga Alon, Joel H. Spencer, 2015-10-28 Praise for the Third Edition Researchers of any kind of extremal combinatorics or theoretical computer science will welcome the new edition of this book MAA Reviews Maintaining a standard of excellence that establishes The Probabilistic Method as the leading reference on probabilistic methods in combinatorics the Fourth Edition continues to feature a clear writing style illustrative examples and illuminating exercises The new edition includes numerous updates to reflect the most recent developments and advances in discrete mathematics and the connections to other areas in mathematics theoretical computer science and statistical physics Emphasizing the methodology and techniques that enable problem solving The Probabilistic Method Fourth Edition begins with a description of tools applied to probabilistic arguments including basic techniques that use expectation and variance as well as the more advanced applications of martingales and correlation inequalities The authors explore where probabilistic techniques have been applied successfully and also examine topical coverage such as discrepancy and random graphs circuit complexity computational geometry and derandomization of randomized algorithms Written by two well known authorities in the field the Fourth Edition features Additional exercises throughout with hints and solutions to select problems in an appendix to help readers obtain a deeper understanding of the best methods and techniques New coverage on topics such as the Local Lemma Six Standard Deviations result in Discrepancy Theory Property B and graph limits Updated sections to reflect major

developments on the newest topics discussions of the hypergraph container method and many new references and improved results The Probabilistic Method Fourth Edition is an ideal textbook for upper undergraduate and graduate level students majoring in mathematics computer science operations research and statistics The Fourth Edition is also an excellent reference for researchers and combinatorists who use probabilistic methods discrete mathematics and number theory Noga Alon PhD is Baumritter Professor of Mathematics and Computer Science at Tel Aviv University He is a member of the Israel National Academy of Sciences and Academia Europaea A coeditor of the journal Random Structures and Algorithms Dr Alon is the recipient of the Polya Prize The G del Prize The Israel Prize and the EMET Prize Joel H Spencer PhD is Professor of Mathematics and Computer Science at the Courant Institute of New York University He is the cofounder and coeditor of the journal Random Structures and Algorithms and is a Sloane Foundation Fellow Dr Spencer has written more than 200 published articles and is the coauthor of Ramsey Theory Second Edition also published by Wiley

Gems of Theoretical

Computer Science Uwe Schöningh, Randall J. Pruim, 2012-12-06 While I was visiting Boston University during the 1996 97 academic year I noticed a small book written in German on a shelf in Steve Homer s office Curious I borrowed it for my train ride home and began reading one of the chapters I liked the style and format of the book so much that over the course of the next few months I frequently found myself reaching for it and working through one chapter or another This was my introduction to Peden der Theoretischen Informatik A few of my colleagues had also seen the book They also found it interesting but most of them did not read German well enough to read more than small portions of it enjoyably I hope that the English version will rectify this situation and that many will enjoy and learn from the English version as much as I enjoyed the German version The front matter of this book says that it has been translated revised and expanded I should perhaps say a few words about each of these tasks In translating the book I have tried as much as possible to retain the feel of the original which is somewhat less formal and impersonal than a typical text book yet relatively concise I certainly hope that the pleasure of the pursuit of understanding has not gotten lost in the translation

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