Probabilistic Methods for Algorithmic Discrete Mathematics

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Probabilistic Methods For Algorithmic Discrete Mathematics:

Probabilistic Methods for Algorithmic Discrete Mathematics Michel Habib,Colin McDiarmid,Jorge Ramirez-Alfonsin,Bruce Reed,2013-03-14 Leave nothing to chance This cliche embodies the common belief that ran domness 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 proba bilistic 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 discus sions 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 tech niques 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 Pi x y o   The Probabilistic Method Noga Alon,Joel H. Spencer,2016-01-26 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   **Algorithms - ESA 2002** Rolf Möhring,Rajeev Raman,2003-08-02 This volume contains the 74 contributed papers and abstracts of 4 of the 5 invited talks presented at the 10th Annual European Symposium on Algorithms ESA 2002 held at the University of Rome La Sapienza Rome Italy 17 21 September 2002 For the rst time ESA had two tracks with separate program committees which dealt respectively with the design and mathematical analysis of algorithms the Design and An ysis track real world applications engineering and experimental analysis of algorithms the Engineering and Applications track Previous ESAs were held in Bad Honnef Germany 1993 Utrecht The Neth lands 1994 Corfu Greece 1995 Barcelona Spain 1996 Graz Austria 1997 Venice Italy 1998 Prague Czech Republic 1999 Saarbruc ken Ger many 2000 and Arhus Denmark 2001 The predecessor to the Engineering and Applications track of ESA was the Annual Workshop on Algorithm En neering WAE Previous WAEs were held in Venice Italy 1997 Saarbruc ken Germany 1998 London UK 1999 Saarbru cken Germany 2000 and Arhus Denmark 2001 The proceedings of the previous ESAs were published as Springer LNCS volumes 726 855 979 1284 1461 1643 1879 and 2161 The proceedings of WAEs from 1999 onwards were published as Springer LNCS volumes 1668 1982 and 2161   **Concentration of Measure for the Analysis of Randomized Algorithms** Devdatt P. Dubhashi,Alessandro Panconesi,2009-06-15 Randomized algorithms have become a central part of the algorithms curriculum based on their increasingly widespread use in modern applications This book presents a coherent and unified treatment of probabilistic techniques for obtaining high probability estimates on the performance of randomized algorithms It covers the basic toolkit from the Chernoff Hoeffding bounds to more sophisticated techniques like martingales and isoperimetric inequalities as well as some recent developments like Talagrand s inequality transportation cost inequalities and log Sobolev inequalities Along the way variations on the basic theme are examined such as Chernoff Hoeffding bounds in dependent settings The authors emphasise comparative study of the different methods highlighting respective strengths and weaknesses in concrete example applications The exposition is tailored to discrete settings sufficient for the analysis of algorithms avoiding unnecessary measure theoretic details thus making the book accessible to computer scientists as well as probabilists and discrete

mathematicians **Approximation, Randomization and Combinatorial Optimization: Algorithms and Techniques** Michel Goemans,Klaus Jansen,Jose D.P. Rolim,Luca Trevisan,2003-05-15 This book constitutes the joint refereed proceedings of the 4th International Workshop on Approximation Algorithms for Optimization Problems APPROX 2001 and of the 5th International Workshop on Ranomization and Approximation Techniques in Computer Science RANDOM 2001 held in Berkeley California USA in August 2001 The 26 revised full papers presented were carefully reviewed and selected from a total of 54 submissions Among the issues addressed are design and analysis of approximation algorithms inapproximability results on line problems randomization de randomization average case analysis approximation classes randomized complexity theory scheduling routing coloring partitioning packing covering computational geometry network design and applications in various fields **Efficient Approximation and Online Algorithms** Evripidis Bampis,2006-02-06 This book provides a good opportunity for computer science practitioners and researchers to get in sync with current state of the art and future trends in the field of combinatorial optimization and online algorithms Recent advances in this area are presented focusing on the design of efficient approximation and on line algorithms One central idea in the book is to use a linear program relaxation of the problem randomization and rounding techniques WALCOM: Algorithms and Computation Subir Kumar Ghosh,Takeshi Tokuyama,2013-01-23 This book constitutes the refereed proceedings of the 7th International Workshop on Algorithms and Computation WALCOM 2013 held in Kharagpur India in February 2013 The 29 full papers presented were carefully reviewed and selected from 86 submissions The papers are organized in topical sections on computational geometry approximation and randomized algorithms parallel and distributed computing graph algorithms complexity and bounds and graph drawing *Handbook of Approximation Algorithms and Metaheuristics* Teofilo F. Gonzalez,2018-05-15 Handbook of Approximation Algorithms and Metaheuristics Second Edition reflects the tremendous growth in the field over the past two decades Through contributions from leading experts this handbook provides a comprehensive introduction to the underlying theory and methodologies as well as the various applications of approximation algorithms and metaheuristics Volume 1 of this two volume set deals primarily with methodologies and traditional applications It includes restriction relaxation local ratio approximation schemes randomization tabu search evolutionary computation local search neural networks and other metaheuristics It also explores multi objective optimization reoptimization sensitivity analysis and stability Traditional applications covered include bin packing multi dimensional packing Steiner trees traveling salesperson scheduling and related problems Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization computational geometry and graphs problems as well as in large scale and emerging application areas It includes approximation algorithms and heuristics for clustering networks sensor and wireless communication bioinformatics search streams virtual communities and more About the Editor Teofilo F Gonzalez is a professor emeritus of computer science at the University of California Santa Barbara He

completed his Ph D in 1975 from the University of Minnesota He taught at the University of Oklahoma the Pennsylvania State University and the University of Texas at Dallas before joining the UCSB computer science faculty in 1984 He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University He is known for his highly cited pioneering research in the hardness of approximation for his sublinear and best possible approximation algorithm for k tMM clustering for introducing the open shop scheduling problem as well as algorithms for its solution that have found applications in numerous research areas as well as for his research on problems in the areas of job scheduling graph algorithms computational geometry message communication wire routing etc **Mathematical and Engineering Methods in Computer Science** Antonin Kucera,Thomas A. Henzinger,Jaroslav Nešetřil,Tomas Vojnar,David Antos,2013-01-17 This volume contains the post proceedings of the 8th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science MEMICS 2012 held in Znojmo Czech Republic in October 2012 The 13 thoroughly revised papers were carefully selected out of 31 submissions and are presented together with 6 invited papers The topics covered by the papers include computer aided analysis and verification applications of game theory in computer science networks and security modern trends of graph theory in computer science electronic systems design and testing and quantum information processing **2023 MATRIX Annals** David R. Wood,Alison M. Etheridge,Jan de Gier,Nalini Joshi,2025-07-02 MATRIX is Australia s residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1 2 weeks in duration This book is a scientific record of the 14 research programs held at MATRIX in 2023 including combined events with the Mathematisches Forschungsinstitut Oberwolfach MFO and with the Research Institute for Mathematical Sciences Kyoto University RIMS Algorithms and Models for the Web Graph Anthony Bonato,Paweł Prałat,Andrei Raigorodskii,2018-05-29 This book constitutes the proceedings of the 15th International Workshop on Algorithms and Models for the Web Graph WAW 2018 held in Moscow Russia in May 2018 The 11 full papers presented in this volume were carefully reviewed and selected from various submissions The papers focus on topics like the information retrieval and data mining on the Web Web as a text repository and as a graph induced in various ways by link among pages hosts and users the understanding of graphs that arise from the Web and various user activities on the Web stimulation of the development of high performance algorithms and applications that exploit these graphs

Algorithms in Bioinformatics Rita Casadio,Gene Myers,2005-10-21 We are pleased to present the proceedings of the 5th Workshop on Algorithms in Bioinformatics WABI 2005 which took place in Mallorca Spain October 3 6 2005 *Mathematics and Computer Science III* Michael Drmota,Philippe Flajolet,Danièle Gardy,Bernhard Gittenberger,2004-07-23 Mathematics and Computer Science III contains invited and contributed papers on combinatorics random graphs and networks algorithms analysis and trees branching processes constituting the Proceedings of the Third International Colloquium on Mathematics and Computer Science held in Vienna in September 2004 It addresses a large public in applied mathematics discrete

mathematics and computer science including researchers teachers graduate students and engineers   *Boolean Functions* Yves Crama,Peter L. Hammer,2011-05-16 Written by prominent experts in the field this monograph provides the first comprehensive unified presentation of the structural algorithmic and applied aspects of the theory of Boolean functions The book focuses on algebraic representations of Boolean functions especially disjunctive and conjunctive normal form representations This framework looks at the fundamental elements of the theory Boolean equations and satisfiability problems prime implicants and associated short representations dualization an in depth study of special classes of Boolean functions quadratic Horn shellable regular threshold read once functions and their characterization by functional equations and two fruitful generalizations of the concept of Boolean functions partially defined functions and pseudo Boolean functions Several topics are presented here in book form for the first time Because of the depth and breadth and its emphasis on algorithms and applications this monograph will have special appeal for researchers and graduate students in discrete mathematics operations research computer science engineering and economics   **Approximation, Randomization and Combinatorial Optimization. Algorithms and Techniques** Ashish Goel,Klaus Jansen,José Rolim,Ronitt Rubinfeld,2008-08-28 This volume contains the papers presented at the 11th International Wo shop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2008 and the 12th International Workshop on Randomization and Computation RANDOM 2008 which took place concurrently at the MIT M sachusetts Institute of Technology in Boston USA during August 25 27 2008 APPROX focuses on algorithmic and complexity issues surrounding the development of e cient approximate solutions to computationally di cult problems and was the 11th in the series after Aalborg 1998 Berkeley 1999 Saarbru cken 2000 Berkeley 2001 Rome 2002 Princeton 2003 Cambridge 2004 Berkeley 2005 Barcelona 2006 and Princeton 2007 RANDOM is concerned with applications of randomness to computational and combinatorial problems and was the 12th workshop in the series following Bologna 1997 Barcelona 1998 Berkeley 1999 Geneva 2000 Berkeley 2001 Harvard 2002 Princeton 2003 Cambridge 2004 Berkeley 2005 Barcelona 2006 and Princeton 2007 Topics of interest for APPROX and RANDOM are design and analysis of proximation algorithms hardness of approximation small space sub linear time streaming algorithms embeddings and metric space methods mathematical programming methods combinatorial problems in graphs and networks game t ory markets economic applications geometric problems packing covering scheduling approximate learning design and analysis of randomized algorithms randomized complexity theory pseudorandomness and derandomization random combinatorial structures random walks Markov chains expander graphs and randomness extractors probabilistic proof systems random projections and beddings error correcting codes average case analysis property testing com tational learning theory and other applications of approximation and randomness   **Bandit Algorithms** Tor Lattimore,Csaba Szepesvári,2020-07-16 A comprehensive and rigorous introduction for graduate students and researchers with applications in sequential decision making problems   **STACS 2007** Wolfgang Thomas,Pascal

Weil,2007-05-24 This book constitutes the refereed proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science STACS 2007 held in Aachen Germany in February 2007 The 56 revised full papers presented together with 3 invited papers address the whole range of theoretical computer science as well as current challenges like biological computing quantum computing and mobile and net computing   **Average Case Analysis of Algorithms on Sequences** Wojciech Szpankowski,2011-10-14 A timely book on a topic that has witnessed a surge of interest over the last decade owing in part to several novel applications most notably in data compression and computational molecular biology It describes methods employed in average case analysis of algorithms combining both analytical and probabilistic tools in a single volume Tools are illustrated through problems on words with applications to molecular biology data compression security and pattern matching Includes chapters on algorithms and data structures on words probabilistic and analytical models inclusion exclusion principles first and second moment methods subadditive ergodic theorem and large deviations elements of information theory generating functions complex asymptotic methods Mellin transform and its applications and analytic poissonization and depoissonization Written by an established researcher with a strong international reputation in the field

    Automata, Languages, and Programming Magnús M. Halldórsson,Kazuo Iwama,Naoki Kobayashi,Bettina Speckmann,2015-06-19 The two volume set LNCS 9134 and LNCS 9135 constitutes the refereed proceedings of the 42nd International Colloquium on Automata Languages and Programming ICALP 2015 held in Kyoto Japan in July 2015 The 143 revised full papers presented were carefully reviewed and selected from 507 submissions The papers are organized in the following three tracks algorithms complexity and games logic semantics automata and theory of programming and foundations of networked computation models algorithms and information management   **Evolutionary Computation in Combinatorial Optimization** Martin S. Krejca,Markus Wagner,2025-03-27 This book constitutes the referred proceedings of the 25th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2025 held as part of EvoStar 2025 in Trieste Italy during April 23 25 2025 The 16 full papers presented in this book were carefully reviewed and selected from 43 submissions These papers cover a variety of topics ranging from benchmark creation over genetic programming heuristics for real world and NP hard problems as well as the foundations of evolutionary computation algorithms and other search heuristics to both mixed binary and multi objective optimization

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