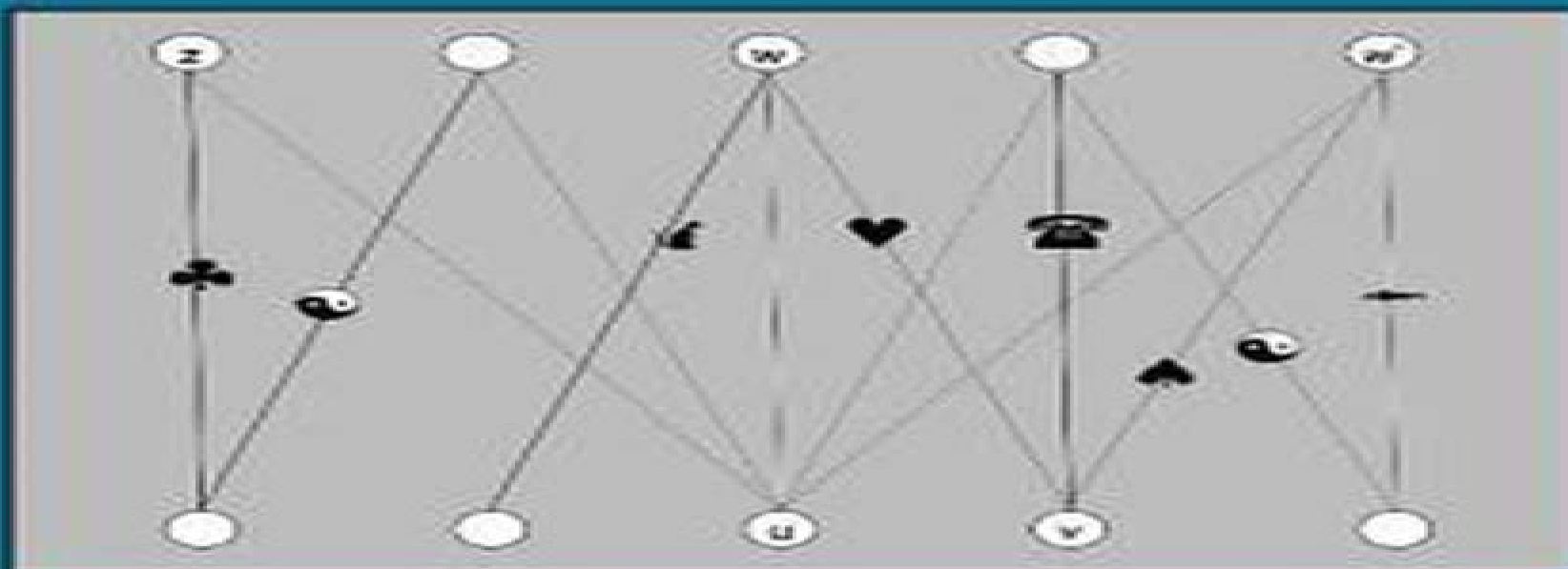


CONCENTRATION OF MEASURE FOR THE ANALYSIS OF RANDOMIZED ALGORITHMS



Devdatt P. Dubhashi
Alessandro Panconesi

Concentration Of Measure For The Analysis Of Randomized Algorithms

**Teofilo Gonzalez, Jorge Diaz-
Herrera, Allen Tucker**



Concentration Of Measure For The Analysis Of Randomized Algorithms:

Concentration of Measure for the Analysis of Randomized Algorithms Devdatt Dubhashi, 2009 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

Handbook of randomized computing. 1 Sanguthevar Rajasekaran, 2001 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 Computing Handbook, Third Edition
 Teofilo Gonzalez, Jorge Diaz-Herrera, Allen Tucker, 2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today's world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century *Topological and Statistical Methods for Complex Data* Janine Bennett, Fabien Vivodtzev, Valerio Pascucci, 2014-11-19 This book contains papers presented at the Workshop on the Analysis of Large scale High Dimensional and Multi Variate Data Using Topology and Statistics held in Le Barp France June 2013 It features the work of some of the most prominent and recognized leaders in the field who examine challenges as well as detail solutions to the analysis of extreme scale data The book presents new methods that leverage the mutual strengths of both topological and statistical techniques to support the management analysis and visualization of complex data It covers both theory and application and provides readers with an overview of important key concepts and the latest research trends Coverage in the book includes multi variate and or high dimensional analysis techniques feature based statistical methods combinatorial algorithms scalable statistics algorithms scalar and vector field topology and multi scale representations In addition the book details algorithms that are broadly applicable and can be used by application scientists to glean insight from a wide range of complex data sets **Network Flow Algorithms** David P. Williamson, 2019-09-05 Network flow theory has been used across a number of disciplines including theoretical computer science operations research and discrete math to model not only problems in the transportation of goods and information but also a wide range of applications from image segmentation problems in computer vision to deciding when a baseball team has been eliminated from contention This graduate text and reference presents a succinct unified view of a wide variety of efficient combinatorial algorithms for network flow problems including many results not found in other books It covers maximum flows minimum cost flows generalized flows multicommodity flows and global minimum cuts and also presents recent work on computing electrical flows along with recent applications of these flows to classical problems in network flow theory On the Power of Small-Depth Computation
 Emanuele Viola, 2009 In this work we discuss selected topics on small depth computation presenting a few unpublished

proofs along the way The four sections contain 1 A unified treatment of the challenge of exhibiting explicit functions that have small correlation with low degree polynomials over $\mathbb{F}_2$ 2 An unpublished proof that small bounded depth circuits AC⁰ have exponentially small correlation with the parity function The proof is due to Klivans and Vadhan it builds upon and simplifies previous ones 3 Valiant's simulation of log depth linear size circuits of fan in 2 by sub exponential size circuits of depth 3 and unbounded fan in To our knowledge a proof of this result has never appeared in full 4 Applebaum Ishai and Kushilevitz's cryptography in bounded depth

Dimensionality Reduction in Data Science Max Garzon, Ching-Chi Yang, Deepak Venugopal, Nirman Kumar, Kalidas Jana, Lih-Yuan Deng, 2022-07-28 This book provides a practical and fairly comprehensive review of Data Science through the lens of dimensionality reduction as well as hands on techniques to tackle problems with data collected in the real world State of the art results and solutions from statistics computer science and mathematics are explained from the point of view of a practitioner in any domain science such as biology cyber security chemistry sports science and many others Quantitative and qualitative assessment methods are described to implement and validate the solutions back in the real world where the problems originated The ability to generate gather and store volumes of data in the order of tera and exo bytes daily has far outpaced our ability to derive useful information with available computational resources for many domains This book focuses on data science and problem definition data cleansing feature selection and extraction statistical geometric information theoretic biomolecular and machine learning methods for dimensionality reduction of big datasets and problem solving as well as a comparative assessment of solutions in a real world setting This book targets professionals working within related fields with an undergraduate degree in any science area particularly quantitative Readers should be able to follow examples in this book that introduce each method or technique These motivating examples are followed by precise definitions of the technical concepts required and presentation of the results in general situations These concepts require a degree of abstraction that can be followed by re interpreting concepts like in the original examples Finally each section closes with solutions to the original problems afforded by these techniques perhaps in various ways to compare and contrast disadvantages to other solutions

Introduction to Probability for Computing Mor Harchol-Balter, 2023-09-28 A highly engaging and interactive undergraduate textbook specifically written for computer science courses

[The Probability Companion for Engineering and Computer Science](#) Adam Prügel-Bennett, 2020-01-23 This friendly guide is the companion you need to convert pure mathematics into understanding and facility with a host of probabilistic tools The book provides a high level view of probability and its most powerful applications It begins with the basic rules of probability and quickly progresses to some of the most sophisticated modern techniques in use including Kalman filters Monte Carlo techniques machine learning methods Bayesian inference and stochastic processes It draws on thirty years of experience in applying probabilistic methods to problems in computational science and engineering and numerous practical examples illustrate where these techniques are used in the real world

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