Probability Theory and Combinatorial Optimization

J. MICHAEL STEELE

Wharton School
University of Pennsylvania
Philadelphia, Pennsylvania

Probability Theory Combinatorial Optim

Ding-Zhu Du,Panos M. Pardalos

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　　Probability Theory and Combinatorial Optimization J. Michael Steele,1997-01-01 An introduction to the state of the art of the probability theory most applicable to combinatorial optimization The questions that receive the most attention are those that deal with discrete optimization problems for points in Euclidean space such as the minimum spanning tree the traveling salesman tour and minimal length matchings　　**Probability Theory of Classical Euclidean Optimization Problems** Joseph E. Yukich,2006-11-14 This monograph describes the stochastic behavior of the solutions to the classic problems of Euclidean combinatorial optimization computational geometry and operations research Using two sided additivity and isoperimetry it formulates general methods describing the total edge length of random graphs in Euclidean space The approach furnishes strong laws of large numbers large deviations and rates of convergence for solutions to the random versions of various classic optimization problems including the traveling salesman minimal spanning tree minimal matching minimal triangulation two factor and k median problems Essentially self contained this monograph may be read by probabilists combinatorialists graph theorists and theoretical computer scientists　　Wahrscheinlichkeitstheorie Ludger Rüschendorf,2016-06-01 Dieses Lehrbuch bietet eine umfassende moderne Einf hrung in die wesentlichen Themen und Anwendungen der Wahrscheinlichkeitstheorie Es liefert eine sehr gut motivierte anspruchsvolle und weitreichende Darstellung bleibt aber dennoch vorlesungsnah und verzichtet auf unn tige formalistische H rden Ziel des Autors ist es insbesondere die Bedeutung und Faszination dieses Gebiets f r zentrale Anwendungen sp rbar werden zu lassen Das Buch erm glicht dem Leser somit ein hervorragendes Verst ndnis der Begriffe Methoden und der Kerninhalte der Wahrscheinlichkeitstheorie sowie der Grundlagen der stochastischen Prozesse und deren Anwendungen zu gewinnen

　　Combinatorial Optimization Bernhard Korte,Jens Vygen,2006-01-27 This well written textbook on combinatorial optimization puts special emphasis on theoretical results and algorithms with provably good performance in contrast to heuristics The book contains complete but concise proofs as well as many deep results some of which have not appeared in any previous books　　*Handbook of Combinatorial Optimization and Probability Theory* Louisa A. May,2012-09 This handbook provides an introduction to the state of the art of the probability theory that is most directly applicable to combinatorial optimization with discrete optimization problems for points in Euclidean space such as the minimum spanning tree the traveling salesman tour and minimal length matchings There are several nongeometric optimization problems that receive full treatment and these include the problems of the longest common subsequence and the longest increasing subsequence　　Key Concepts in Discrete Mathematics Udayan Bhattacharya,2025-02-20 Key Concepts in Discrete Mathematics offers a comprehensive introduction to the fascinating realm of discrete mathematics covering a diverse array of topics essential for students and professionals in computer science mathematics engineering and related fields Through clear explanations illustrative examples and engaging exercises we provide readers with a solid foundation in discrete

mathematics and its practical applications Our book covers a wide range of topics from fundamental concepts like sets relations and functions to advanced topics such as graph theory combinatorics and algorithm analysis We present complex concepts in a clear and accessible manner with detailed explanations and step by step examples guiding readers through each topic We emphasize practical applications and real world examples that demonstrate the relevance of discrete mathematics in various fields including computer science cryptography network theory and optimization Abundant exercises and problems ranging from basic to challenging allow readers to practice and reinforce their understanding of key concepts and techniques Additional online resources including solutions to selected exercises interactive quizzes and supplementary materials enhance the learning experience and provide opportunities for further exploration Whether used as a textbook in a classroom setting or as a self study guide Key Concepts in Discrete Mathematics serves as an invaluable resource for students seeking to deepen their understanding and for educators and professionals interested in exploring this essential area of mathematics **Fast Sequential Monte Carlo Methods for Counting and Optimization** Reuven Y. Rubinstein,Ad Ridder,Radislav Vaisman,2013-11-13 A comprehensive account of the theory and application of Monte Carlo methods Based on years of research in efficient Monte Carlo methods for estimation of rare event probabilities counting problems and combinatorial optimization Fast Sequential Monte Carlo Methods for Counting and Optimization is a complete illustration of fast sequential Monte Carlo techniques The book provides an accessible overview of current work in the field of Monte Carlo methods specifically sequential Monte Carlo techniques for solving abstract counting and optimization problems Written by authorities in the field the book places emphasis on cross entropy minimum cross entropy splitting and stochastic enumeration Focusing on the concepts and application of Monte Carlo techniques Fast Sequential Monte Carlo Methods for Counting and Optimization includes Detailed algorithms needed to practice solving real world problems Numerous examples with Monte Carlo method produced solutions within the 1 2% limit of relative error A new generic sequential importance sampling algorithm alongside extensive numerical results An appendix focused on review material to provide additional background information Fast Sequential Monte Carlo Methods for Counting and Optimization is an excellent resource for engineers computer scientists mathematicians statisticians and readers interested in efficient simulation techniques The book is also useful for upper undergraduate and graduate level courses on Monte Carlo methods **Handbook of Combinatorial Optimization** Ding-Zhu Du,Panos M. Pardalos,2013-12-01 Combinatorial or discrete optimization is one of the most active fields in the interface of operations research computer science and applied math ematics Combinatorial optimization problems arise in various applications including communications network design VLSI design machine vision air line crew scheduling corporate planning computer aided design and man ufacturing database query design cellular telephone frequency assignment constraint directed reasoning and computational biology Furthermore combinatorial optimization problems occur in many diverse areas such as linear and integer programming graph theory artificial intelligence and

number theory All these problems when formulated mathematically as the minimization or maximization of a certain function defined on some domain have a commonality of discreteness Historically combinatorial optimization starts with linear programming Linear programming has an entire range of important applications including production planning and distribution personnel assignment finance alloca tion of economic resources circuit simulation and control systems Leonid Kantorovich and Tjalling Koopmans received the Nobel Prize 1975 for their work on the optimal allocation of resources Two important discover ies the ellipsoid method 1979 and interior point approaches 1984 both provide polynomial time algorithms for linear programming These algo rithms have had a profound effect in combinatorial optimization Many polynomial time solvable combinatorial optimization problems are special cases of linear programming e g matching and maximum flow In addi tion linear programming relaxations are often the basis for many approxi mation algorithms for solving NP hard problems e g dualheuristics   Mastering Discrete Mathematics Gautami Devar,2025-02-20 Mastering Discrete Mathematics is a comprehensive and accessible resource designed to provide readers with a thorough understanding of the fundamental concepts techniques and applications of discrete mathematics Written for students educators researchers and practitioners we offer a detailed overview of discrete mathematics a field that deals with countable distinct objects and structures We cover a wide range of topics including sets logic proof techniques combinatorics graph theory recurrence relations and generating functions Our clear and concise language makes complex mathematical concepts accessible to readers with varying levels of mathematical background Each concept is illustrated with examples and applications to demonstrate its relevance and practical significance in various domains Emphasizing the practical applications of discrete mathematics we explore its use in computer science cryptography optimization network theory and other scientific disciplines Each chapter includes exercises and problems to reinforce learning test understanding and encourage further exploration of the material Additional resources including supplementary materials interactive exercises and solutions to selected problems are available online to complement the book and facilitate self study and review Whether you are a student looking to gain a solid foundation in discrete mathematics an educator seeking to enhance your teaching materials or a practitioner interested in applying discrete mathematics techniques to real world problems Mastering Discrete Mathematics offers valuable insights and resources to support your learning and exploration of this fascinating field   Handbook of combinatorial optimization & probability theory ,2016   *Handbook of Combinatorial Optimization* Ding-Zhu Du,Panos M. Pardalos,1999-10-31 Combinatorial or discrete optimization is one of the most active fields in the interface of operations research computer science and applied math ematics Combinatorial optimization problems arise in various applications including communications network design VLSI design machine vision air line crew scheduling corporate planning computer aided design and man ufacturing database query design cellular telephone frequency assignment constraint directed reasoning and computational biology Furthermore combinatorial optimization problems occur in many diverse areas such as

linear and integer programming graph theory artificial intelligence and number theory All these problems when formulated mathematically as the minimization or maximization of a certain function defined on some domain have a commonality of discreteness Historically combinatorial optimization starts with linear programming Linear programming has an entire range of important applications including production planning and distribution personnel assignment finance alloca tion of economic resources circuit simulation and control systems Leonid Kantorovich and Tjalling Koopmans received the Nobel Prize 1975 for their work on the optimal allocation of resources Two important discover ies the ellipsoid method 1979 and interior point approaches 1984 both provide polynomial time algorithms for linear programming These algo rithms have had a profound effect in combinatorial optimization Many polynomial time solvable combinatorial optimization problems are special cases of linear programming e g matching and maximum flow In addi tion linear programming relaxations are often the basis for many approxi mation algorithms for solving NP hard problems e g dual heuristics **SIAM Journal on Matrix Analysis and Applications** ,1997 US Air Force Research Technology Area Plan ,1988 **Handbook of combinatorial optimization. 1** Dingzhu Du,Panos M. Pardalos,1998 The first of a multi volume set which deals with several algorithmic approaches for discrete problems as well as many combinatorial problems It is addressed to researchers in discrete optimization and to all scientists who use combinatorial optimization methods to model and solve problems **Discrete Optimization with Interval Data** Adam Kasperski,2008-06-04 Operations research often solves deterministic optimization problems based on elegantand conciserepresentationswhereall parametersarepreciselyknown In the face of uncertainty probability theory is the traditional tool to be appealed for and stochastic optimization is actually a signi cant sub area in operations research However the systematic use of prescribed probability distributions so as to cope with imperfect data is partially unsatisfactory First going from a deterministic to a stochastic formulation a problem may becomeintractable Agoodexampleiswhengoingfromdeterministictostoch tic scheduling problems like PERT From the inception of the PERT method in the 1950 s it was acknowledged that data concerning activity duration times is generally not perfectly known and the study of stochastic PERT was launched quite early Even if the power of today s computers enables the stochastic PERT to be addressed to a large extent still its solutions often require simplifying assumptions of some kind Another di culty is that stochastic optimization problems produce solutions in the average For instance the criterion to be maximized is more often than not expected utility This is not always a meaningful strategy In the case when the underlying process is not repeated a lot of times let alone being one shot it is not clear if this criterion is realistic in particular if probability distributions are subjective Expected utility was proposed as a rational criterion from rst principles by Savage In his view the subjective probability distribution was sically an artefact useful to implement a certain ordering of solutions SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics,2007 *Advances in Electronic Engineering, Communication and Management Vol.2* David Jin,Sally Lin,2012-01-18 This volume presents the main results of 2011

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Combinatorial Optimization Mustafa Akgül,Horst W. Hamacher,Süleyman Tüfekci,2012-12-06 There have been significant developments in the theory and practice of combinatorial optimization in the last 15 years This progress has been evidenced by a continuously increasing number of international and local conferences books and papers in this area This book is also another contribution to this burgeoning area of operations research and optimization This volume contains the contributions of the participants of the recent NATO Ad vanced Study Institute New Frontiers in the Theory and Practice of Combinatorial Op timization which was held at the campus of Bilkent University in Ankara Turkey July 16 29 1990 In this conference we brought many prominent researchers and young and promising scientists together to discuss current and future trends in the theory and prac tice of combinatorial optimization The Bilkent campus was an excellent environment for such an undertaking Being outside of Ankara the capital of Turkey Bilkent University gave the participants a great opportunity for exchanging ideas and discussing new theories and applications without much distraction One of the primary goals of NATO ASIs is to bring together a group of scientists and research scientists primarily from the NATO countries for the dissemination of ad vanced scientific knowledge and the promotion of international contacts among scientists We believe that we accomplished this mission very successfully by bringing together 15 prominent lecturers and 45 promising young scientists from 12 countries in a university environment for 14 days of intense lectures presentations and discussions

Approximation, Randomization and Combinatorial Optimization. Algorithms and Techniques Chandra Chekuri,2005-08-08 This book constitutes the joint refereed proceedings of the 8th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2005 and the 9th International Workshop on Randomization and Computation RANDOM 2005 held in Berkeley CA USA in August 2005 The volume contains 41 carefully reviewed papers selected by the two program committees from a total of 101 submissions Among the issues addressed are design and analysis of approximation algorithms hardness of approximation small space and data streaming algorithms sub linear time

algorithms embeddings and metric space methods mathematical programming methods coloring and partitioning cuts and connectivity geometric problems game theory and applications network design and routing packing and covering scheduling 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 embeddings error correcting codes average case analysis property testing computational learning theory and other applications of approximation and randomness   **Mathematical Reviews** ,2002

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