

Approximation Algorithms

Given an optimization alg., we say it has an approximation ratio of $\rho(n)$ if:
For any input of size n , $\max(C/C^*, C^*/C) \leq \rho(n)$.

It is a $\rho(n)$ -approximation algorithm.

A 1-approximation algorithm produces an optimal solution.

Some polynomial-time approx. algorithms have approximation ratios that grow as functions of the input size n .
(eg. set-cover)

Some polynomial-time approx. algorithms have approximation ratios that improve when it is allowed to spend longer and longer time to run.
(eg. Subset-sum)

Some polynomial-time approx. algorithms have approximation ratios that can be specified by you as $1+\epsilon$ and it runs as a $(1+\epsilon)$ -approx alg..
 $T(n)$ could be polynomial or exponential in $1/\epsilon$ etc.. eg. $O((1/\epsilon)^2 n^3)$.

Approximation Algorithms

Sariel Har-Peled



Approximation Algorithms:

Approximation Algorithms Vijay V. Vazirani, 2002-12-05 Covering the basic techniques used in the latest research work the author consolidates progress made so far including some very recent and promising results and conveys the beauty and excitement of work in the field He gives clear lucid explanations of key results and ideas with intuitive proofs and provides critical examples and numerous illustrations to help elucidate the algorithms Many of the results presented have been simplified and new insights provided Of interest to theoretical computer scientists operations researchers and discrete mathematicians

Geometric Approximation Algorithms Sarel Har-Peled, 2011 Exact algorithms for dealing with geometric objects are complicated hard to implement in practice and slow Over the last 20 years a theory of geometric approximation algorithms has emerged These algorithms tend to be simple fast and more robust than their exact counterparts This book is the first to cover geometric approximation algorithms in detail In addition more traditional computational geometry techniques that are widely used in developing such algorithms like sampling linear programming etc are also surveyed Other topics covered include approximate nearest neighbor search shape approximation coresets dimension reduction and embeddings The topics covered are relatively independent and are supplemented by exercises Close to 200 color figures are included in the text to illustrate proofs and ideas

Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez, 2007-05-15 Delineating the tremendous growth in this area the Handbook of Approximation Algorithms and Metaheuristics covers fundamental theoretical topics as well as advanced practical applications It is the first book to comprehensively study both approximation algorithms and metaheuristics Starting with basic approaches the handbook presents the methodologies to design and analyze efficient approximation algorithms for a large class of problems and to establish inapproximability results for another class of problems It also discusses local search neural networks and metaheuristics as well as multiobjective problems sensitivity analysis and stability After laying this foundation the book applies the methodologies to classical problems in combinatorial optimization computational geometry and graph problems In addition it explores large scale and emerging applications in networks bioinformatics VLSI game theory and data analysis Undoubtedly sparking further developments in the field this handbook provides the essential techniques to apply approximation algorithms and metaheuristics to a wide range of problems in computer science operations research computer engineering and economics Armed with this information researchers can design and analyze efficient algorithms to generate near optimal solutions for a wide range of computational intractable problems

Approximation Algorithms for NP-hard Problems Dorit S. Hochbaum, 1997 This is the first book to fully address the study of approximation algorithms as a tool for coping with intractable problems With chapters contributed by leading researchers in the field this book introduces unifying techniques in the analysis of approximation algorithms APPROXIMATION ALGORITHMS FOR NP HARD PROBLEMS is intended for computer scientists and operations researchers interested in specific algorithm implementations as well as

design tools for algorithms Among the techniques discussed the use of linear programming primal dual techniques in worst case analysis semidefinite programming computational geometry techniques randomized algorithms average case analysis probabilistically checkable proofs and inapproximability and the Markov Chain Monte Carlo method The text includes a variety of pedagogical features definitions exercises open problems glossary of problems index and notes on how best to use the book Lectures on Proof Verification and Approximation Algorithms Ernst W. Mayr,Hans Jürgen Prömel,Angelika Steger,2006-06-08 During the last few years we have seen quite spectacular progress in the area of approximation algorithms for several fundamental optimization problems we now actually know matching upper and lower bounds for their approximability This textbook like tutorial is a coherent and essentially self contained presentation of the enormous recent progress facilitated by the interplay between the theory of probabilistically checkable proofs and approximation algorithms The basic concepts methods and results are presented in a unified way to provide a smooth introduction for newcomers These lectures are particularly useful for advanced courses or reading groups on the topic *Introduction To Algorithms* Thomas H Cormen,Charles E Leiserson,Ronald L Rivest,Clifford Stein,2001 An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms Lectures on Proof Verification and Approximation Algorithms Ernst W. Mayr,Hans Jürgen Prömel,Angelika Steger,1998-02-25 This is a self contained presentation of the enormous recent progress on the interplay between and applications of the theory of probabilistically checkable proofs and approximation algorithms **An Introduction to Bioinformatics Algorithms** Neil C. Jones,Pavel A. Pevzner,2004-08-06 An introductory text that emphasizes the underlying algorithmic ideas that are driving advances in bioinformatics This introductory text offers a clear exposition of the algorithmic principles driving advances in bioinformatics Accessible to students in both biology and computer science it strikes a unique balance between rigorous mathematics and practical techniques emphasizing the ideas underlying algorithms rather than offering a collection of apparently unrelated problems The book introduces biological and algorithmic ideas together linking issues in computer science to biology and thus capturing the interest of students in both subjects It demonstrates that relatively few design techniques can be used to solve a large number of practical problems in biology and presents this material intuitively An Introduction to Bioinformatics Algorithms is one of the first books on bioinformatics that can be used by students at an undergraduate level It includes a dual table of contents organized by algorithmic idea and biological idea discussions of biologically relevant problems including a detailed problem formulation and one or more solutions for each and brief biographical sketches of leading figures in the field These interesting vignettes offer students a glimpse of the inspirations and motivations for real work in bioinformatics making the concepts presented in the text more concrete and the techniques more approachable PowerPoint presentations practical bioinformatics problems sample code diagrams demonstrations and other materials can be found at the Author s website Design and Analysis of Approximation Algorithms Ding-Zhu Du,Ker-I Ko,Xiaodong Hu,2011-11-18

This book is intended to be used as a textbook for graduate students studying theoretical computer science. It can also be used as a reference book for researchers in the area of design and analysis of approximation algorithms. Design and Analysis of Approximation Algorithms is a graduate course in theoretical computer science taught widely in the universities both in the United States and abroad. There are however very few textbooks available for this course. Among those available in the market, most books follow a problem oriented format that is they collected many important combinatorial optimization problems and their approximation algorithms and organized them based on the types or applications of problems such as geometric type problems, algebraic type problems etc. Such arrangement of materials is perhaps convenient for a researcher to look for the problems and algorithms related to his/her work but is difficult for a student to capture the ideas underlying the various algorithms. In the new book proposed here we follow a more structured technique oriented presentation. We organize approximation algorithms into different chapters based on the design techniques for the algorithms so that the reader can study approximation algorithms of the same nature together. It helps the reader to better understand the design and analysis techniques for approximation algorithms and also helps the teacher to present the ideas and techniques of approximation algorithms in a more unified way.

Approximation Algorithms for Combinatorial Optimization Klaus Jansen, Stefano Leonardi, Vijay Vazirani, 2003-06-30. This book constitutes the refereed proceedings of the 5th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2002 held in Rome, Italy in September 2002. The 20 revised full papers presented were carefully reviewed and selected from 54 submissions. Among the topics addressed are design and analysis of approximation algorithms, inapproximability results, online problems, randomization techniques, average case analysis, approximation classes, scheduling problems, routing and flow problems, coloring and partitioning, cuts and connectivity, packing and covering, geometric problems, network design and applications to game theory and other fields.

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