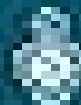


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Approximation Algorithms



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Thang Nguyen Bui, Sing-Ling Lee



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Invitation to Fixed-Parameter Algorithms Rolf Niedermeier, 2006-02-02 This research level text is an application oriented introduction to the growing and highly topical area of the development and analysis of efficient fixed parameter algorithms for optimally solving computationally hard combinatorial problems The book is divided into three parts a broad introduction that provides the general philosophy and motivation followed by coverage of algorithmic methods developed over the years in fixed parameter algorithmics forming the core of the book and a discussion of the essentials from parameterized hardness theory with a focus on W 1 hardness which parallels NP hardness then stating some relations to polynomial time approximation algorithms and finishing up with a list of selected case studies to show the wide range of applicability of the presented methodology Aimed at graduate and research mathematicians programmers algorithm designers and computer scientists the book introduces the basic techniques and results and provides a fresh view on this highly innovative field of algorithmic research

Approximation Algorithms Vijay V. Vazirani, 2003

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Approximation Algorithms for Combinatorial Optimization Problems, 2004

Lecture Notes on Approximation Algorithms R. Motwani, Stanford University. Computer Science Dept, 1992 These lecture notes are based on the course CS351 Dept of Computer Science Stanford University offered during the academic year 1991 92 The notes below correspond to the first half of the course The second half consists of topics such as AL4X SNP cliques and colorings as well as more specialized material covering topics such as geometric problems Steiner trees and multicommodity flows The second half is being revised to incorporate the implications of recent results in approximation algorithms and the complexity of approximation problems Please let me know if you would like to be on the mailing list for the second half Comments criticisms and corrections are welcome please send them by electronic mail to rajeev cs Stanford edu

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Algorithms A. H. G. Rinnooy Kan, 1984 **Constructing Approximation Algorithms Via Linear Programming Relaxations** Chungpiaw Teo, 1996 Approximation Algorithms for Partial Capacitated Covering Problems Guy Flysher, Tekhniyon, Makhon tekhnologi le-Yisra'el. Fakultah le-mad'e ha-mahshev, 2007 Approximation Algorithms for Traveling Salesman Problems Based on Linear Programming Relaxations Hyung Chan An, 2012

The traveling salesman problem TSP is the problem of finding a shortest Hamiltonian circuit or path in a given weighted graph. This problem has been studied in numerous variants and linear programming has played an important role in the design of approximation algorithms for these problems. In this thesis we study two versions of the traveling salesman problem and present approximation algorithms for them based on the Held Karp relaxation. We first investigate the s t path TSP. Hoogeveen showed that the natural variant of Christofides algorithm is a $5/3$ approximation algorithm for this problem; this asymptotically tight bound had remained the best approximation ratio known until now. We surpass this 20 year old barrier by presenting a deterministic 1.5 approximation algorithm for the s t path TSP for an arbitrary metric. The techniques devised in this context can also be applied to other optimization problems including the prize collecting s t path problem and the unit weight graphical metric s t path TSP. The integrality gaps of the LP relaxations for all three problems are studied. Then we consider the bottleneck asymmetric TSP where the objective is minimizing the bottleneck or maximum length edge cost rather than the total edge cost. We present the first nontrivial approximation algorithm for this problem by giving a novel algorithmic technique to shortcut Eulerian circuits while bounding the lengths of the shortcuts needed. Building on this framework and the result of Asadpour, Goemans, Madry, Oveis Gharan and Saberi, we achieve an $O(\log n \log \log n)$ approximation algorithm. We also explore the possibility of improvement upon this result through a comparison to the symmetric counterpart of the problem.

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