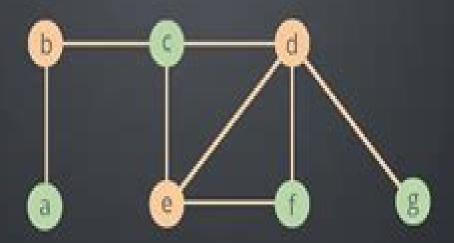
12.0 - Approximation Algorithms

Example: Minimum Vertex Cover

- Here is a 2-approximation algorithm, given a graph G(V, E):
 - let E' = E, C = {}
 - while E' is nonempty:
 - pick an edge (u, v) from E' and add u and v to C
 - remove any edge in E' that is connected to either u or v
 - return C





Approximation Algorithm Vazirani Instructor Manual

Vazirani

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Compiler Construction Shriram Krishnamurthi, Martin Odersky, 2007-07-02 This book constitutes the refereed proceedings of the 16th International Conference on Compiler Construction CC 2007 held in Braga Portugal in March 2007 as part of ETAPS 2007 the European Joint Conferences on Theory and Practice of Software The 15 revised full are organized in topical sections on architecture garbage collection and program analysis register allocation and program analysis **British National Bibliography** Arthur James Wells,2002 Dissertation Abstracts International ,1993 Algorithms Vijay V. Vazirani, 2003 **Approximation Algorithms for Combinatorial Optimization Klaus Jansen, Samir** Khuller, 2003-07-31 This book constitutes the refereed proceedings of the Third International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2000 held in Saarbrcken Germany in September 2000 The 22 revised full papers presented together with four invited contributions were carefully reviewed and selected from 68 submissions The topics dealt with include design and analysis of approximation algorithms inapproximibility results on line 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 Design and Analysis of Approximation Algorithms Ding-Zhu Du, Ker-I Ko, Xiaodong Hu, 2011-11-18 various applications 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** Vazirani, 2004 *Approximation* Geometric Approximation Algorithms Sariel Har-Peled, 2011 Exact algorithms for dealing with Algorithms, 1997 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

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