Approximation Algorithms

Approximation algorithms are algorithms designed to solve problems that are not solvable in polynomial time for approximate solutions. These problems are known as NP complete problems. These problems are significantly effective to solve real world problems, therefore, it becomes important to solve them using a different approach.

NP complete problems can still be solved in three cases: the input could be so small that the execution time is reduced, some problems can still be classified into problems that can be solved in polynomial time, or use approximation algorithms to find near-optimal solutions for the problems.

This leads to the concept of performance ratios of an approximation problem.

Performance Ratios

The main idea behind calculating the **performance ratio** of an approximation algorithm, which is also called as an **approximation ratio**, is to find how close the approximate solution is to the optimal solution.

The approximate ratio is represented using **p(n)** where n is the input size of the algorithm, C is the near-optimal solution obtained by the algorithm, C* is the optimal solution for the problem. The algorithm has an approximate ratio of p(n) if and only if −

$$max\{CC*,C*C\}≤p(n)max\{CC*,C*C\}≤p(n)$$

The algorithm is then called a p(n)-approximation algorithm. Approximation Algorithms can be applied on two types of optimization problems: minimization problems and maximization problems. If the optimal solution of the problem is to find the maximum cost, the problem is known as the maximization problem; and if the optimal solution of the problem is to find the minimum cost, then the problem is known as a minimization problem.

For maximization problems, the approximation ratio is calculated by C*/C since $0 ≤ C ≤ C*$. For minimization problems, the approximation ratio is calculated by C/C* since $0 ≤ C* ≤ C$.

Assuming that the costs of approximation algorithms are all positive, the performance ratio is well defined and will not be less than 1. If the value is 1, that means the approximate algorithm generates the exact optimal solution.

Examples

Few popular examples of the approximation algorithms are −

- Vertex Cover Algorithm
- Set Cover Problem
- Travelling Salesman Problem (Approximation Approach)
- The Subset Sum Problem

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Integer Programming and Related Areas C. Kastning,2013-11-11 Integer Prograw ing is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut fur konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries   7 *Algorithm Design Paradigms* Sung-Hyuk Cha,2020-06-01 The intended readership includes both undergraduate and graduate students majoring in computer science as well as researchers in the computer science area The book is suitable either as a textbook or as a supplementary book in algorithm courses Over 400 computational problems are covered with various algorithms to tackle them Rather than providing students simply with the best known algorithm for a problem this book presents various algorithms for readers to master various algorithm design paradigms Beginners in computer science can train their algorithm design skills via trivial algorithms on elementary problem examples Graduate students can test their abilities to apply the algorithm design paradigms to devise an efficient algorithm for intermediate level or challenging problems Key Features Dictionary of computational problems A table of over 400 computational problems with more than 1500 algorithms is provided Indices and Hyperlinks Algorithms computational problems equations figures lemmas properties tables and theorems are indexed with unique identification numbers and page numbers in the printed book and hyperlinked in the e book version Extensive Figures Over 435 figures illustrate the algorithms and describe computational problems Comprehensive exercises More than 352 exercises help students to improve their algorithm design and analysis skills The answers for most questions are available in the accompanying solution manual   **Geo-information and Computational Geometry** Petrus Johannes Maria van Oosterom,Marc van Kreveld,2006   **Scientific and Technical Aerospace Reports** ,1979 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database   **Mathematics Catalog 2005** Neil Thomson,2004-10

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