

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. $O((1/\epsilon)^2 n^3)$.

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