

The Design Of Approximation Algorithms

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The Design Of Approximation Algorithms

This book shows how to design approximation algorithms: efficient algorithms that find provably near-optimal solutions. The book is organized around central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization.

The Design of Approximation Algorithms: 9780521195270 ...

The Design of Approximation Algorithms. This is the companion website for the book The Design of Approximation Algorithms by David P. Williamson and David B. Shmoys , published by Cambridge University Press. Interesting discrete optimization problems are everywhere, from traditional operations research planning problems, such as scheduling, facility location, and network design, to computer science problems in databases, to advertising issues in viral marketing.

The Design of Approximation Algorithms

in the design of approximation algorithms. This perspective is from our background in the operations research and mathematical programming communities. It is a little unusual in the computer science community, and students coming from a computer science background may not be familiar with the basic terminology of linear programming.

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The Design of Approximation Algorithms | David P ...

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The Design of Approximation Algorithms by David P. Williamson

The Design of Approximation Algorithms This book is designed to be a textbook for graduate-level courses in approximation algorithms. It assumes familiarity with algorithms, mathematical proofs about the correctness of algorithms, probability theory and NP-completeness. Tag (s): Theory of Computation

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Design and Analysis of Approximation Algorithms is a textbook for a graduate course in theoretical computer science taught globally in universities. It can also be used as a reference work for researchers in the area of design and analysis algorithms.

Design and Analysis of Approximation Algorithms (Springer ...

The design and analysis of approximation algorithms crucially involves a mathematical proof certifying the quality of the returned solutions in the worst case. This distinguishes them from heuristics such as annealing or genetic algorithms , which find reasonably good solutions on some inputs, but provide no clear indication at the outset on when they may succeed or fail.

Approximation algorithm - Wikipedia

This book shows how to design approximation algorithms: efficient algorithms that find provably near-optimal solutions. The book is organized around central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization.

The Design of Approximation Algorithms [3]

The Design of Approximation Algorithms. Each chapter in the first part of the book is devoted to a single algorithmic technique, which is then applied to several different problems. The second part revisits the techniques but offers more sophisticated treatments of them.

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This book shows how to design approximation algorithms: efficient algorithms that find provably near-optimal solutions. The book is organized around central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization.

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Free eBook "The Design of Approximation Algorithms" by David P. Williamson and David B. Shmoys. The book is organized around several central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization.

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This book shows how to design approximation algorithms: efficient algorithms that find provably near-optimal solutions. The book is organized around central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization.

The Design of Approximation Algorithms: Williamson, David ...

Designed as a textbook for graduate courses on algorithms, this book will also serve as a reference for researchers interested in heuristic solutions of discrete optimization problems. It presents central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization.

The design of approximation algorithms (Book, 2011 ...

This book is designed to be a textbook for graduate-level courses in approximation algorithms. After some experience teaching minicourses in the area in the mid-1990s, we sat down and wrote out an outline of the book. Then one of us (DPW), who was at the time an IBM Research Staff Member, taught several iterations of the course following the outline we had devised, in Columbia University's Department of Industrial Engineering and Operations Research in Spring 1998, in Cornell University ...