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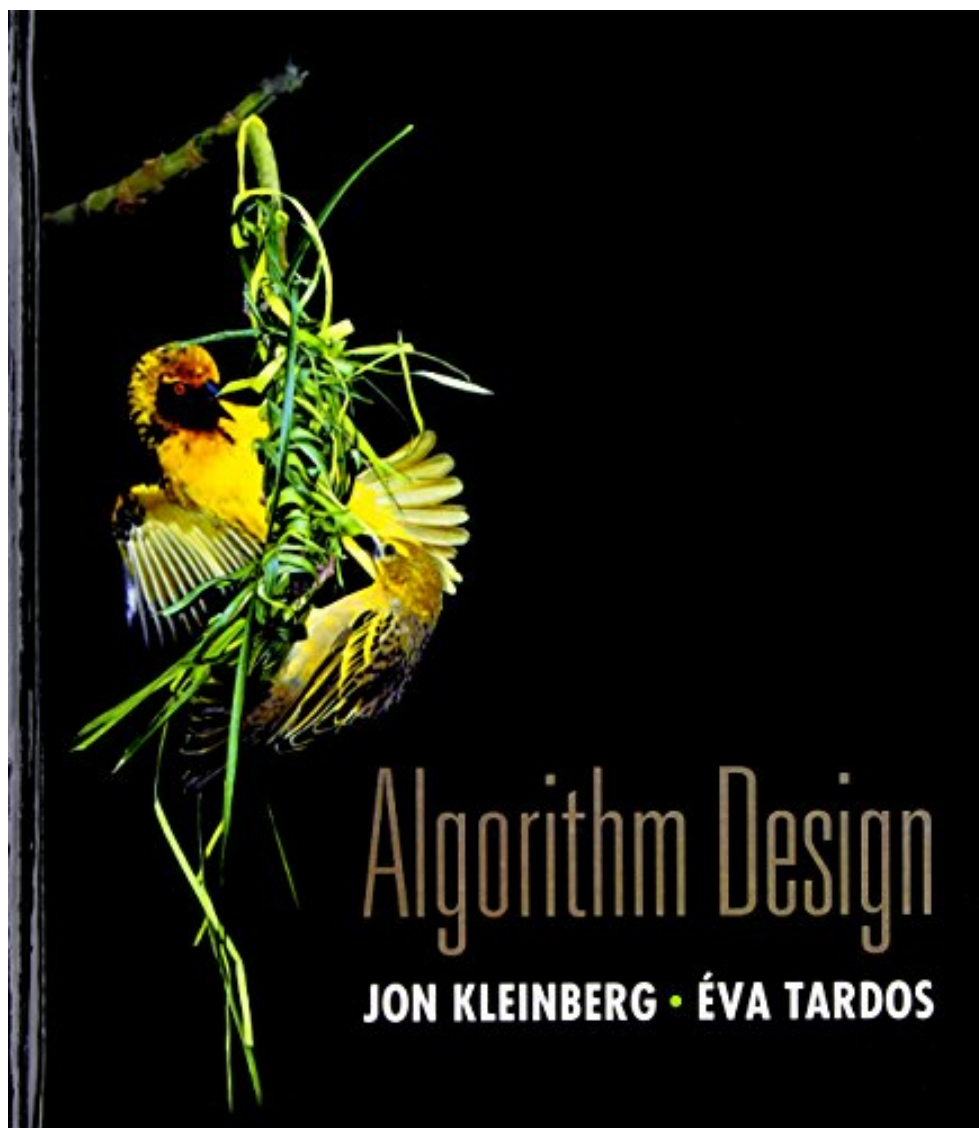

Algorithm Design is writen by Jon Kleinberg in English language. Release on 2005-03-26, this book has 864 page count that attach helpful information with easy reading structure. The book was publish by Addison-Wesley, it is one of best computers & technology book genre that gave you everything love about reading. You can find Algorithm Design book with ISBN 0321295358.

Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science. August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his statistical analysis research in the Internet age.

# Algorithm Design Jon Kleinberg Related Books

The Algorithm Design Manual

This volume helps take some of the "mystery" out of identifying and dealing with key algorithms. Drawing heavily on the author's own real-world experiences, the book stresses design and analysis. Coverage is divided into two parts, the first being a general guide to techniques for the design and analysis of computer algorithms. The second is a reference section, which includes a catalog of the 75 most important algorithmic problems. By browsing this catalog, readers can quickly identify what...
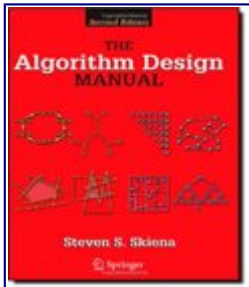
The Algorithm Design Manual

Most professional programmers that Ive encountered are not well prepared to tackle algorithm design problems. This is a pity, because the techniques of algorithm design form one of the core practical technologies of computer science. Designing correct, efficient, and implementable algorithms for real-world problems requires access to two distinct bodies of knowledge: Techniques Good algorithm designers understand several fundamental algorithm design techniques, including data structures, dynam...
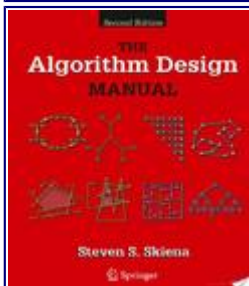
The Algorithm Design Manual

This expanded and updated second edition of a classic bestseller continues to take the mystery out of designing and analyzing algorithms and their efficac y and efficiency. Expanding on the highly successful formula of the first edition, the book now serves as the primary textbook of choice for any algorithm design course while maintaining its status as the premier practical reference guide to algorithms. NEW: (1) Incorporates twice the tutorial material and exercises. (2) Provides full online s...
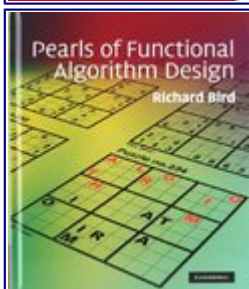
Pearls of Functional Algorithm Design

Richard Bird takes a radically new approach to algorithm design, namely, design by calculation. These 30 short chapters each deal with a particular programming problem drawn from sources as diverse as games and puzzles, intriguing combinatorial tasks, and more familiar areas such as data compression and string matching. Each pearl starts with the statement of the problem expressed using the functional programming language Haskell, a powerful yet succinct language for capturing algorithmic ideas ...

Algorithm Engineering

This work considers practical parallel list-ranking algorithms. The model for which programs are written is a single-program multiple-data (SPMD) \bri- ingmodel". Thismodel isdesignated asa programmer'smodelfora ne-grained computation framework called Explicit Multi-Threading (XMT), which was - troduced in [VDBN98]; the XMT framework covers the spectrum from al- rithms through architecture to implementation; it is meant to provide a pl- form for faster single-task completion time by way of instr...

The Sachertorte Algorithm

Takes you inside the computer, explains the components of its systems, the basics of programming, and the interaction between user and machine. With easy-to-understand analogies, cuts through computer jargon to remove the anxiety-producing mysteries of technology. Concludes with an astute analysis of what a computer can and cannot do, appraising the urgent problem of software reliability and the possibilities of artificial intelligence. Provides the clearest picture yet of the workings and the w...
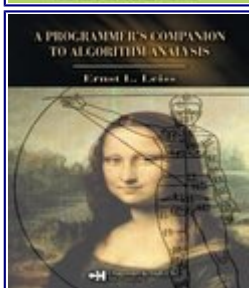
A Programmer's Companion to Algorithm Analysis

Until now, no other book examined the gap between the theory of algorithms and the production of software programs. Focusing on practical issues, A Programmer's Companion to Algorithm Analysis carefully details the transition from the design and analysis of an algorithm to the resulting software program. Consisting of two main complementary parts, the book emphasizes the concrete aspects of translating an algorithm into software that should perform based on what the algorithm analysis indicated....
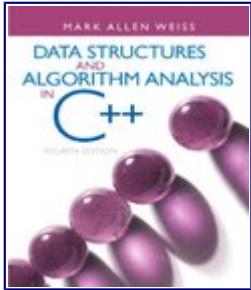
Data Structures & Algorithm Analysis in C++

Data Structures and Algorithm Analysis in C++ is an advanced algorithms book that bridges the gap between traditional CS2 and Algorithms Analysis courses. As the speed and power of computers increases, so does the need for effective programming and algorithm analysis. By approaching these skills in tandem, Mark Allen Weiss teaches readers to develop well-constructed, maximally efficient programs using the C++ programming language. This book explains topics from binary heaps to sorting to ...

Hierarchical Bayesian Optimization Algorithm

This book provides a framework for the design of competent optimization techniques by combining advanced evolutionary algorithms with state-of-the-art machine learning techniques. The book focuses on two algorithms that replace traditional variation operators of evolutionary algorithms by learning and sampling Bayesian networks: the Bayesian optimization algorithm (BOA) and the hierarchical BOA (hBOA). BOA and hBOA are theoretically and empirically shown to provide robust and scalable solution f...
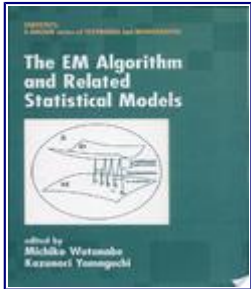
The EM Algorithm and Related Statistical Models

Exploring the application and formulation of the EM algorithm, The EM Algorithm and Related Statistical Models offers a valuable method for constructing statistical models when only incomplete information is available, and proposes specific estimation algorithms for solutions to incomplete data problems. The text covers current topics including statistical models with latent variables, as well as neural network models, and Markov Chain Monte Carlo methods. It describes software resources valuabl...

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