

Weili Wu  
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# Combinatorial Optimization and Applications

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**Xiaofeng Gao,Hongwei Du,Meng Han**



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Intelligent Engineering Optimisation with the Bees Algorithm D. T. Pham, Natalia Hartono, 2024-11-10 This book presents new and advanced results and developments related to the Bees Algorithm along with its application to a wide range of engineering problems Modern complex processes and systems are difficult to optimise using conventional mathematical tools as they require models that often cannot be obtained with accuracy or certainty Optimising such systems demands efficient model free optimisation tools The Bees Algorithm a swarm based technique inspired by the foraging behaviour of honeybees is an ideal tool for tackling challenging optimisation problems The algorithm is conceptually elegant and extremely easy to apply All it needs to solve an optimisation problem is a means to evaluate the quality of potential solutions While the covered applications belong to diverse engineering fields this book's focus is on advanced manufacturing and industrial engineering The book comprises two parts The first part explores different enhancements made to the original Bees Algorithm to improve its performance The second part delves into the algorithm's applications in design manufacturing production ergonomics logistics transportation and electrical and electronic engineering By showcasing the variety of optimisation tasks successfully handled using the Bees Algorithm the book aims to inspire and motivate engineers and researchers worldwide to adopt the algorithm as a powerful and versatile tool for conquering complex engineering problems in the Industry 4.0 era and beyond

Combinatorial Optimization and Applications T-H. Hubert Chan, Minming Li, Lusheng Wang, 2016-11-30 This book constitutes the refereed proceedings of the 10th International Conference on Combinatorial Optimization and Applications COCOA 2016 held in Hong Kong China in December 2016 The 60 full papers included in the book were carefully reviewed and selected from 122 submissions The papers are organized in topical sections such as graph theory geometric optimization complexity and data structure combinatorial optimization and miscellaneous Algorithms for Scheduling Problems Frank Werner, Larysa Burtseva, Yuri Sotskov MDPI, 2018-08-24 This book is a printed edition of the Special Issue Algorithms for Scheduling Problems that was published in Algorithms Proceedings TENCON '93 Baozong Yuan, 1993 **Algorithms**

**and Parallel Computing** Fayez Gebali, 2011-04-19 There is a software gap between the hardware potential and the performance that can be attained using today's software parallel program development tools. The tools need manual intervention by the programmer to parallelize the code. Programming a parallel computer requires closely studying the target algorithm or application more so than in the traditional sequential programming we have all learned. The programmer must be aware of the communication and data dependencies of the algorithm or application. This book provides the techniques to explore the possible ways to program a parallel computer for a given application. Natural Computing for Simulation and Knowledge Discovery

Nunes de Castro, Leandro, 2013-07-31 Nature has long provided the inspiration for a variety of scientific discoveries in engineering, biomedicine, and computing, though only recently have these elements of nature been used directly in computational systems. Natural Computing for Simulation and Knowledge Discovery investigates the latest developments in nature-influenced technologies. Within its pages, readers will find an in-depth analysis of such advances as cryptographic solutions based on cell division, the creation and manipulation of biological computers, and particle swarm optimization techniques. Scientists, practitioners, and students in fields such as computing, mathematics, and molecular science will make use of this essential reference to explore current trends in natural computation and advance nature-inspired technologies to the next generation. **Combinatorial Optimization and Applications**

Weili Wu, Ovidiu Daescu, 2010-12-09 This book constitutes the refereed proceedings of the 4th International Conference on Combinatorial Optimization and Applications COCOA 2010 held in Kailua Kona, HI, USA, in December 2010. The 49 revised full papers were carefully reviewed and selected from 108 submissions. *Combinatorial Optimization and Applications*

Boting Yang, 2008-08-04 This book constitutes the refereed proceedings of the Second International Conference on Combinatorial Optimization and Applications COCOA 2008 held in St. John's, Canada, in August 2008. The 44 revised full papers were carefully reviewed and selected from 84 submissions. The papers feature original research in the areas of combinatorial optimization, both theoretical issues and applications motivated by real-world problems, thus showing convincingly the usefulness and efficiency of the algorithms discussed in a practical setting. *Combinatorial Optimization and Applications*

Xiaofeng Gao, Hongwei Du, Meng Han, 2017-12-06 The two-volume set LNCS 10627 and 10628 constitutes the refereed proceedings of the 11th International Conference on Combinatorial Optimization and Applications COCOA 2017 held in Shanghai, China, in December 2017. The 59 full papers and 19 short papers presented were carefully reviewed and selected from 145 submissions. The papers cover most aspects of theoretical computer science and combinatorics related to computing, including classic combinatorial optimization, geometric optimization, complexity, and data structures and graph theory. They are organized in topical sections on network approximation, algorithm, and graph theory, combinatorial optimization, game theory, and applications. **Combinatorial Optimization and Applications**

Zhao Zhang, Lidong Wu, Wen Xu, Ding-Zhu Du, 2014-11-13 This book constitutes the refereed proceedings of the 8th International Conference on

Combinatorial Optimization and Applications COCOA 2014 held on the island of Maui Hawaii USA in December 2014 The 56 full papers included in the book were carefully reviewed and selected from 133 submissions Topics covered include classic combinatorial optimization geometric optimization network optimization optimization in graphs applied optimization CSoNet and complexity cryptography and games

**Combinatorial Optimization and Applications** Andreas Dress, 2007-07-25 Running to almost 400 pages and featuring more than 40 papers this work on combinatorial optimization and applications will be seen as an important addition to the literature It constitutes the refereed proceedings of the first International Conference on Combinatorial Optimization and Applications COCOA 2007 held in Xi an China in August of that year The 29 revised full papers presented together with 8 invited papers and 2 invited presentations were carefully reviewed and selected from 114 submissions and cover both theoretical issues and practical applications

Combinatorial Optimization and Applications Weili Wu, Zhongnan Zhang, 2020-12-04 This volume constitutes the proceedings of the 14th International Conference on Combinatorial Optimization and Applications COCOA 2020 held in Dallas TX USA in December 2020 The 55 full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers are grouped into the following topics Approximation Algorithms Scheduling Network Optimization Complexity and Logic Search Facility and Graphs Geometric Problem Sensors Vehicles and Graphs and Graph Problems Due to the Corona pandemic this event was held virtually

*Combinatorial Optimization and Applications* Weili Wu, Jianxiong Guo, 2023-12-08 The two volume set LNCS 14461 and LNCS 14462 constitutes the refereed proceedings of the 17th International Conference on Combinatorial Optimization and Applications COCOA 2023 held in Hawaii HI USA during December 15 17 2023 The 73 full papers included in the proceedings were carefully reviewed and selected from 117 submissions They were organized in topical sections as follows Part I Optimization in graphs scheduling set related optimization applied optimization and algorithm Graph planer and others Part II Modeling and algorithms complexity and approximation combinatorics and computing optimization and algorithms extreme graph and others machine learning blockchain and others

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*Personnel Planning and Scheduling* Sanja Petrovic, 2007

**Combinatorial Optimization and Applications** Weili Wu, Ovidiu Daescu, 2010-12-09 This book constitutes the refereed proceedings of the 4th International Conference on Combinatorial Optimization and Applications COCOA 2010 held in Kailua Kona HI USA in

December 2010 The 49 revised full papers were carefully reviewed and selected from 108 submissions      **Combinatorial Optimization and Applications** Donghyun Kim,R. N. Uma,Alexander Zelikovsky,2018-11-16 The conference proceeding LNCS 11346 constitutes the refereed proceedings of the 12th International Conference on Combinatorial Optimization and Applications COCOA 2018 held in Atlanta GA USA in December 2018 The 50 full papers presented were carefully reviewed and selected from 106 submissions The papers cover most aspects of t graph algorithms routing and network design problems scheduling algorithms network optimization combinatorial algorithms approximation algorithms paths and connectivity problems and much more      **Combinatorial Optimization and Applications** Weifan Wang,Xuding Zhu,Ding-Zhu Du,2011-07-20 This book constitutes the refereed proceedings of the 5th International Conference on Combinatorial Optimization and Applications COCOA 2011 held in Zhangjiajie China in August 2011 The 43 revised full papers were carefully reviewed and selected from 65 submissions The papers cover a broad range of topics in combinatorial optimization and applications focussing on experimental and applied research of general algorithmic interest and research motivated by real world problems

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