

COMBINATORIAL OPTIMIZATION

The Traveling Salesman Problem and Its Variations

Gregory Gutin and Abraham P. Punnen (Eds.)

The Traveling Salesman Problem And Its Variations

Combinatorial Optimization

G. Gutin, A.P. Punnen



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Traveling Salesman Problem Donald Davendra,2010-12-30 This book is a collection of current research in the application of evolutionary algorithms and other optimal algorithms to solving the TSP problem It brings together researchers with applications in Artificial Immune Systems Genetic Algorithms Neural Networks and Differential Evolution Algorithm Hybrid systems like Fuzzy Maps Chaotic Maps and Parallelized TSP are also presented Most importantly this book presents both theoretical as well as practical applications of TSP which will be a vital tool for researchers and graduate entry students in the field of applied Mathematics Computing Science and Engineering

Approximation and Online Algorithms Thomas Erlebach,Christos Kaklamani,2007-01-25 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Approximation and Online Algorithms WAOA 2006 held in Zurich Switzerland in September 2006 as part of the ALGO 2006 conference event The 26 revised full papers presented were carefully reviewed and selected from 62 submissions

Green, Pervasive, and Cloud Computing Man Ho Allen Au,Arcangelo Castiglione,Kim-Kwang Raymond Choo,Francesco Palmieri,Kuan-Ching Li,2017-05-06 This book constitutes the proceedings of the 12th International Conference on Green Pervasive and Cloud Computing GPC 2017 held in Cetara Italy in May 2017 and the following colocated workshops First International Workshop on Digital Knowledge Ecosystems 2017 and First Workshop on Cloud Security Modeling Monitoring and Management CS3M 2017 The 58 full papers included in this volume were carefully reviewed and selected from 169 initial submissions They deal with cryptography security and biometric techniques advances network services algorithms and optimization mobile and pervasive computing cybersecurity parallel and distributed computing ontologies and smart applications and healthcare support systems

Information and Software Technologies Tomas Skersys,Rimantas Butleris,Rita Butkiene,2013-11-13 This book constitutes the refereed proceedings of the 18th International Conference on Information and Software Technologies ICIST 2012 held in Kaunas Lithuania in September 2012 The 40 revised full papers presented were carefully reviewed and

selected from 81 submissions The papers are organized in topical sections on artificial intelligence and knowledge engineering business process modelling analysis and design formal analysis and design methods information and software systems engineering information technology applications and computer networks information technology in teaching and learning ontology conceptual modelling and databases requirements engineering and business rules Advances in Neural Networks – ISSN 2014 Zhigang Zeng, Yangmin Li, Irwin King, 2014-11-28 The volume LNCS 8866 constitutes the refereed proceedings of the 11th International Symposium on Neural Networks ISSN 2014 held in Hong Kong and Macao China on November December 2014 The 71 revised full papers presented were carefully reviewed and selected from 119 submissions These papers cover all major topics of the theoretical research empirical study and applications of neural networks research as follows The focus is on following topics such as analysis modeling and applications **Graph Theory, Combinatorics and Algorithms** Martin Charles Golumbic, Irith Ben-Arroyo Hartman, 2006-03-30 Graph Theory Combinatorics and Algorithms Interdisciplinary Applications focuses on discrete mathematics and combinatorial algorithms interacting with real world problems in computer science operations research applied mathematics and engineering The book contains eleven chapters written by experts in their respective fields and covers a wide spectrum of high interest problems across these discipline domains Among the contributing authors are Richard Karp of UC Berkeley and Robert Tarjan of Princeton both are at the pinnacle of research scholarship in Graph Theory and Combinatorics The chapters from the contributing authors focus on real world applications all of which will be of considerable interest across the areas of Operations Research Computer Science Applied Mathematics and Engineering These problems include Internet congestion control high speed communication networks multi object auctions resource allocation software testing data structures etc In sum this is a book focused on major contemporary problems written by the top research scholars in the field using cutting edge mathematical and computational techniques **Introduction to Evolutionary Algorithms** Xinjie Yu, Mitsuo Gen, 2010-06-10 Evolutionary algorithms are becoming increasingly attractive across various disciplines such as operations research computer science industrial engineering electrical engineering social science and economics Introduction to Evolutionary Algorithms presents an insightful comprehensive and up to date treatment of evolutionary algorithms It covers such hot topics as genetic algorithms differential evolution swarm intelligence and artificial immune systems The reader is introduced to a range of applications as Introduction to Evolutionary Algorithms demonstrates how to model real world problems how to encode and decode individuals and how to design effective search operators according to the chromosome structures with examples of constraint optimization multiobjective optimization combinatorial optimization and supervised unsupervised learning This emphasis on practical applications will benefit all students whether they choose to continue their academic career or to enter a particular industry Introduction to Evolutionary Algorithms is intended as a textbook or self study material for both advanced undergraduates and graduate students Additional features such as recommended further reading

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