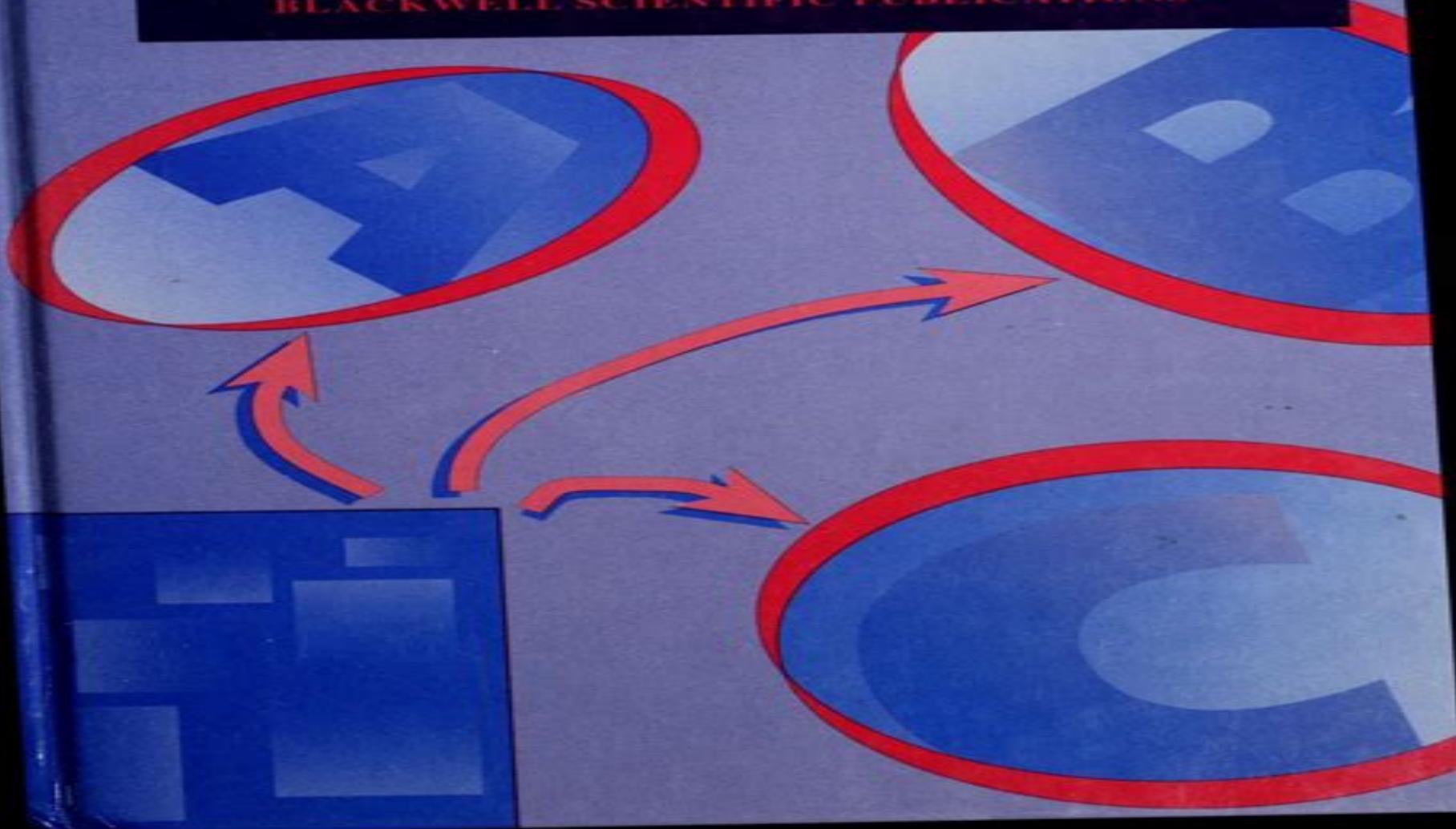


ADVANCED TOPICS IN COMPUTER SCIENCE

Modern Heuristic Techniques for Combinatorial Problems

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Modern Heuristic Techniques For Combinatorial Problems

Joachim P. Walser

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El-Sharkawi,2008-02-13 This book explores how developing solutions with heuristic tools offers two major advantages shortened development time and more robust systems It begins with an overview of modern heuristic techniques and goes on to cover specific applications of heuristic approaches to power system problems such as security assessment optimal power flow power system scheduling and operational planning power generation expansion planning reactive power planning transmission and distribution planning network reconfiguration power system control and hybrid systems of heuristic methods

Design of Modern Heuristics Franz Rothlauf,2011-07-17 Most textbooks on modern heuristics provide the reader with detailed descriptions of the functionality of single examples like genetic algorithms genetic programming tabu search simulated annealing and others but fail to teach the underlying concepts behind these different approaches The author takes a different approach in this textbook by focusing on the users needs and answering three fundamental questions First he tells us which problems modern heuristics are expected to perform well on and which should be left to traditional optimization methods Second he teaches us to systematically design the right modern heuristic for a particular problem by providing a coherent view on design elements and working principles Third he shows how we can make use of problem specific knowledge for the design of efficient and effective modern heuristics that solve not only small toy problems but also perform well on large real world problems This book is written in an easy to read style and it is aimed at students and practitioners in computer science operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use This book is written in an easy to read style and it is aimed at students and practitioners in computer science operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use This book is written in an easy to read style and it is aimed at students and practitioners in computer science operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use

Modern Optimisation Techniques in Power Systems Yong-Hua Song,1999-05-31 Under an ever increasingly competitive deregulated

environment power utilities need efficient and effective tools to ensure that electrical energy of the desired quality can be provided at the lowest cost These usually form highly constrained optimisation problems Modern Optimisation Techniques in Power Systems is the first book to offer a comprehensive cover of major modern optimisation methods applied to power systems including simulated annealing tabu search genetic algorithms neural networks fuzzy programming Lagrangian relaxation interior point methods ant colony search and hybrid techniques Various applications and case studies are presented to demonstrate the potential and procedures of applying such techniques in solving complex power system optimisation problems Written by top international experts in this field this book will be a useful reference for professional engineers and managers involved in the optimisation of power system operation It will also be of interest to postgraduates and researchers

Integer Optimization by Local Search Joachim P. Walser,2003-06-26 Integer Optimization addresses a wide spectrum of practically important optimization problems and represents a major challenge for algorithmics The goal of integer optimization is to solve a system of constraints and optimization criteria over discrete variables Integer Optimization by Local Search introduces a new approach to domain independent integer optimization which unlike traditional strategies is based on local search It develops the central concepts and strategies of integer local search and describes possible combinations with classical methods from linear programming The surprising effectiveness of the approach is demonstrated in a variety of case studies on large scale realistic problems including production planning timetabling radar surveillance and sports scheduling The monograph is written for practitioners and researchers from artificial intelligence and operations research

Computational Intelligence: Theory and Applications Bernd Reusch,2007-07-16 Fuzzy Days in Dortmund were held for the first time in 1991 Initially the conference was intended for scientists and practitioners as a platform for discussions on theory and application of fuzzy logic Early on synergistic links with neural networks were included and the conference evolved gradually to embrace the full spectrum of what is now called Computational Intelligence CI Therefore it seemed logical to launch the 4th Fuzzy Days in 1994 as a conference for CI one of the world's first conferences featuring fuzzy logic neural networks and evolutionary algorithms together in one event Following this successful tradition the 6th Fuzzy Days aim is to provide an international forum for reporting significant results on the theory and application of CI methods Once again we have received a remarkable number of papers I would like to express my gratitude to all who have been interested in presenting their work within the framework of this conference and to the members of the programme committee for their valuable work in this edition each paper was reviewed by five referees In particular I wish to thank all keynote and tutorial speakers for their commitment Last but not least I am obliged to the Deutsche Forschungsgemeinschaft and Kommunalverband Ruhrgebiet for their financial support

Modern Methods for Business Research George A. Marcoulides,1998-03-01 This volume introduces the latest popular methods for conducting business research The goal of each chapter author a leading authority in a particular subject area is to provide an understanding of each method with a

minimum of mathematical derivations The chapters are organized within three general interrelated topics Measurement Decision Analysis and Modeling The chapters on measurement discuss generalizability theory latent trait and latent class models and multi faceted Rasch modeling The chapters on decision analysis feature applied location theory models data envelopment analysis and heuristic search procedures The chapters on modeling examine exploratory and confirmatory factor analysis dynamic factor analysis partial least squares and structural equation modeling multilevel data analysis modeling of longitudinal data by latent growth curve methods and structures and configural models of longitudinal categorical data *Metaheuristics in Combinatorial Optimization* Gilbert Laporte,Ibrahim H. Osman,1996 *Applications of Evolutionary Computing* Günther Raidl,Stefano Cagnoni,Juan J. Romero Cardalda,David W. Corne,Jens Gottlieb,Agnes Guillot,Emma Hart,Colin G. Johnson,Elena Marchiori,Jean-Arcady Meyer,Martin Middendorf,2003-08-03 This book constitutes the joint refereed proceedings of six workshops EvoWorkshops 2003 held together with EuroGP 2003 in Essex UK in April 2003 The 63 revised full papers presented were carefully reviewed and selected from a total of 109 submissions In accordance with the six workshops covered the papers are organized in topical sections on bioinformatics combinatorial optimization image analysis and signal processing evolutionary music and art evolutionary robotics and scheduling and timetabling **Modern Heuristic Search Methods** V. J. Rayward-Smith,1996-12-23 Including contributions from leading experts in the field this book covers applications and developments of heuristic search methods for solving complex optimization problems The book covers various local search strategies including genetic algorithms simulated annealing tabu search and hybrids thereof These methods have proved extraordinarily successful by solving some of the most difficult real world problems At the interface between Artificial Intelligence and Operational Research research in this exciting area is progressing apace spurred on by the needs of industry and commerce The introductory chapter provides a clear overview of the basic techniques and useful pointers to further reading and to current research The second section of the book covers some of the most recent and exciting developments of the basic techniques with suggestions not only for extending and improving these but also for hybridizing and incorporating automatic adaption The third section contains a number of case studies surveys and comparative studies which span a wide range of application areas ranging from the classic Steiner tree problem to more practical problems arising in telecommunications and data analysis The coverage of the latest research and the illustrative case studies will ensure that the book is invaluable for researchers and professionals with an interest in heuristic search methods *Modern Heuristic for the Network Reconfiguration Problem in Electric Distribution Systems* Keisuke Yanagiuchi,2002 Computational Intelligence ,1999 *Annotated Bibliographies in Combinatorial Optimization* Mauro Dell'Amico,Francesco Maffioli,Silvano Martello,1997-08-28 Wiley Interscience Series in Discrete Mathematics and Optimization Advisory Editors Ronald L Graham Jan Karel Lenstra Robert E Tarjan Discrete Mathematics and Optimization involves the study of finite structures and is one of the fastest growing areas in mathematics today The level and depth of

recent advances in the area and the wide applicability of its evolving techniques point to the rapidity with which the field is moving and presage the ever increasing interaction between it and computer science The Series provides a broad coverage of discrete mathematics and optimization ranging over such fields as combinatorics graph theory enumeration mathematical programming and the analysis of algorithms and including such topics as Ramsey theory transversal theory block designs finite geometries Polya theory graph and matroid algorithms network flows polyhedral combinatorics and computational complexity The Wiley Interscience Series in Discrete Mathematics and Optimization will be a substantial part of the record in this extraordinary development Recent titles in the Series Local Search in Combinatorial Optimization Edited by Emile H L Aarts Philips Research Laboratories Eindhoven and Eindhoven University of Technology Eindhoven Jan Karel Lenstra Eindhoven University of Technology Eindhoven and CWI Amsterdam In the past three decades local search has grown from a simple heuristic idea into a mature field of research in combinatorial optimization Local search is still the method of choice for NP hard problems as it provides a robust approach for obtaining high quality solutions to problems of a realistic size in a reasonable time This area of discrete mathematics is of great practical use and is attracting ever increasing attention The contributions to this book cover local search and its variants from both a theoretical and practical point of view each with a chapter written by leading authorities on that particular aspect Chapters 1 to 7 deal with the theory of local search and describe the principal search strategies such as simulated annealing tabu search genetic algorithms and neural networks The remaining chapters present a wealth of results on applications of local search to problems in management science and engineering including the traveling salesman problem vehicle routing machine scheduling VLSI design and code design This book is an important reference volume and an invaluable source of inspiration for advanced students and researchers in discrete mathematics computer science operations research industrial engineering and management science

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