Annotated Bibliographies in Combinatorial Optimization

Edited by

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Combinatorial Optimization Annotated Bibliographies

Matthias Ehrgott,Xavier Gandibleux

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Combinatorial Optimization M. O'Heigeartaigh, Annotated bibliographies in combinatorial optimization Mauro Dell'Amico,Francesco Maffioli,1997 **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 **Annotated Bibliographies in Combinatorial Optimization** m;maffioli dell-amico (f et al),1997 Combinatorial Optimization M. O'h Eigeartaigh,J. K. Lenstra,A. H. G. Rinnooy Kan,1985 **An Annotated Bibliography of Multiobjective Combinatorial Optimization** Matthias Ehrgott,Xavier Gandibleux,2000 **Robustness in Combinatorial Optimization and Scheduling Theory** Yury V. Nikulin,2004 Robustness in Combinatorial Optimization and Scheduling Theory Yury Nikulin,2006 **Multiple Criteria Optimization** Xavier Gandibleux,2006-04-11 The generalized area of multiple criteria

decision making MCDM can be defined as the body of methods and procedures by which the concern for multiple conflicting criteria can be formally incorporated into the analytical process MCDM consists mostly of two branches multiple criteria optimization and multi criteria decision analysis MCDA While MCDA is typically concerned with multiple criteria problems that have a small number of alternatives often in an environment of uncertainty location of an airport type of drug rehabilitation program multiple criteria optimization is typically directed at problems formulated within a mathematical programming framework but with a stack of objectives instead of just one river basin management engineering component design product distribution It is about the most modern treatment of multiple criteria optimization that this book is concerned I look at this book as a nicely organized and well rounded presentation of what I view as new wave topics in multiple criteria optimization Looking back to the origins of MCDM most people agree that it was not until about the early 1970s that multiple criteria optimization c gealed as a field At this time and for about the following fifteen years the focus was on theories of multiple objective linear programming that subsume conventional single criterion linear programming algorithms for characterizing the efficient set theoretical vector maximum dev opments and interactive procedures

Integer Programming and Related Areas Rabe v. Randow,2012-12-06 The fields of integer programming and combinatorial optimization continue to be areas of great vitality with an ever increasing number of publications and journals appearing A classified bibliography thus continues to be necessary and useful today even more so than it did when the project of which this is the fifth volume was started in 1970 in the Institut fur Okonometrie und Operations Research of the University of Bonn The pioneering first volume was compiled by Claus Kastning during the years 1970 1975 and appeared in 1976 as Volume 128 of the series Lecture Notes in Economics and Mathematical Systems published by the Springer Verlag Work on the project was continued by Dirk Hausmann Reinhardt Euler and Rabe von Randow and resulted in the publication of the second third and fourth volumes in 1978 1982 and 1985 Volumes 160 197 and 243 of the above series The present book constitutes the fifth volume of the bibliography and covers the period from autumn 1984 to the end of 1987 It contains 5864 new publications by 4480 authors and was compiled by Rabe von Randow Its form is practically identical to that of the first four volumes some additions having been made to the subject list   Mathematical Perspectives on Neural Networks Paul Smolensky,Michael C. Mozer,David E. Rumelhart,2013-05-13 Recent years have seen an explosion of new mathematical results on learning and processing in neural networks This body of results rests on a breadth of mathematical background which even few specialists possess In a format intermediate between a textbook and a collection of research articles this book has been assembled to present a sample of these results and to fill in the necessary background in such areas as computability theory computational complexity theory the theory of analog computation stochastic processes dynamical systems control theory time series analysis Bayesian analysis regularization theory information theory computational learning theory and mathematical statistics Mathematical models of neural networks display an amazing richness and

diversity Neural networks can be formally modeled as computational systems as physical or dynamical systems and as statistical analyzers Within each of these three broad perspectives there are a number of particular approaches For each of 16 particular mathematical perspectives on neural networks the contributing authors provide introductions to the background mathematics and address questions such as Exactly what mathematical systems are used to model neural networks from the given perspective What formal questions about neural networks can then be addressed What are typical results that can be obtained and What are the outstanding open problems A distinctive feature of this volume is that for each perspective presented in one of the contributed chapters the first editor has provided a moderately detailed summary of the formal results and the requisite mathematical concepts These summaries are presented in four chapters that tie together the 16 contributed chapters three develop a coherent view of the three general perspectives computational dynamical and statistical the other assembles these three perspectives into a unified overview of the neural networks field **Multiple Criteria Decision Analysis: State of the Art Surveys** José Figueira,Salvatore Greco,Matthias Ehrgott,2005 MULTIPLE CRITERIA DECISION ANALYSIS State of the Art Surveys is the most comprehensive work available to survey the state of the art in MCDA to date Its 25 chapters are organized in eight parts and are written by 52 international leading experts Each of these parts covers one of the central streams of multiple criteria decision analysis literature These literature streams are MCDA today Foundations of MCDA Our Ranking Methods Multiattribute Utility Theory Non Classical MCDA Approaches Multiobjective Mathematical Programming Applications and MCDM Software The handbook presents the most up to date discussions on well established methodologies and theories in the field while systematically surveying emerging fields in MCDA such as conjoint measurement fuzzy preferences fuzzy integrals rough sets etc MULTIPLE CRITERIA DECISION ANALYSIS State of the Art Surveys is a valuable reference volume more than 2000 references for the field of decision analysis It provides graduate students researchers and practitioners with a sweeping survey of MCDA theory methodologies and applications It is a handbook that is particularly suitable for use in seminars in Decision Analysis Decision Support and Decision Theory **Integer Programming and Related Areas** R.v. Randow,2012-12-06 An Annotated Bibliography for Post-solution Analysis in Mixed Integer Programming and Combinatorial Optimization Harvey J. Greenberg,1997 **Scheduling in Computer and Manufacturing Systems** Jacek Blazewicz,Klaus Ecker,Günter Schmidt,Jan Weglarz,2012-12-06 This book is the result of a joint Gennan Polish project which has been partially sup ported by the Committee for Scientific Research 1 and the Deutsche Forschungsge meinschaft2 We appreciate the help of both institutions The planning and preparation of the manuscript was an iterative and rather lengthy process which we had to stop at a certain stage but it does not mean that we were fully satisfied with the output Thus comments and improvements will be appreciated In the meantime we would like to thank many colleagues who already discussed with us different topics presented in the book We are not able to list all of them but we would like to express our special gratitude toward Peter

Brucker Gerd Finke Adam Janiak Wieslaw Kubiak Kathryn Stecke and Dominique de Werra As to the technical help in preparing the manuscript our thanks are due to Barbara Blarewicz Brigitte Ecker Maria Kaminska and Brigitte Sand especially for their typing efforts   Theoretical Aspects of Local Search Wil Michiels,Emile Aarts,Jan Korst,2007-01-17 Local search has been applied successfully to a diverse collection of optimization problems It s appreciated for its basic conceptual foundation its general applicability and its power to serve as a source for new search paradigms The typical characteristics of combinatorial optimization problems to which local search can be applied its relation to complexity theory and the combination with randomized search features have led to a wealth of interesting theoretical results However these results are scattered throughout the literature This is the first book that presents a large collection of theoretical results in a consistent manner thus providing the reader with a coherent overview of the achievements obtained so far but also serving as a source of inspiration for the development of novel results in the challenging field of local search   Mathematical Reviews ,2006   Parallel Algorithms for the Set Covering Problem Russell Alan Rushmeier,1989   OR Models for Energy Policy, Planning and Management ,2003   **The British Library General Catalogue of Printed Books, 1986 to 1987** British Library,1988

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