

Vincent T'kindt
Jean-Charles Billaut

Multicriteria Scheduling

Theory,
Models
and
Algorithms

Second Edition



Springer

Multicriteria Scheduling Theory Models And Algorithms

Massimiliano Caramia, Paolo Dell'Olmo



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Multicriteria Scheduling Vincent T'Kindt, Jean-Charles Billaut, 2006-03-20 Scheduling and multicriteria optimisation theory have been subject separately to numerous studies Since the last twenty years multicriteria scheduling problems have been subject to a growing interest However a gap between multicriteria scheduling approaches and multicriteria optimisation field exists This book is an attempt to collect the elementary of multicriteria optimisation theory and the basic models and algorithms of multicriteria scheduling It is composed of numerous illustrations algorithms and examples which may help the reader in understanding the presented concepts This book covers general concepts such as Pareto optimality complexity theory and general method for multicriteria optimisation as well as dedicated scheduling problems and algorithms just in time scheduling flexibility and robustness single machine problems parallel machine problems shop problems etc The second edition contains revisions and new material

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Multicriteria Optimization Matthias Ehrgott, 2006-01-16 Decision makers in many areas from industry to engineering and the social sector face an increasing need to consider multiple conflicting objectives in their decision processes In many cases these real world decision problems can be formulated as multicriteria mathematical optimization models The solution of such models requires appropriate techniques to compute so called efficient or Pareto optimal or compromise solutions that unlike traditional mathematical programming methods take the contradictory nature of the criteria into account This book provides the necessary mathematical foundation of multicriteria optimization to solve nonlinear linear and combinatorial problems with multiple criteria Motivational examples illustrate the use of multicriteria optimization in practice Numerous illustrations and exercises as well as an extensive bibliography are provided In the new edition a chapter on optimality conditions has been added The linear programming part has been extended and includes new developments Moreover motivational examples are now introducing the majority of chapters

Evolutionary Algorithms for Solving Multi-Objective Problems Carlos Coello Coello, Gary B. Lamont, David A. van Veldhuizen, 2007-08-26 Solving multi objective problems is an evolving effort and computer science and other related disciplines have given rise to many powerful deterministic and

stochastic techniques for addressing these large dimensional optimization problems Evolutionary algorithms are one such generic stochastic approach that has proven to be successful and widely applicable in solving both single objective and multi objective problems This textbook is a second edition of Evolutionary Algorithms for Solving Multi Objective Problems significantly expanded and adapted for the classroom The various features of multi objective evolutionary algorithms are presented here in an innovative and student friendly fashion incorporating state of the art research The book disseminates the application of evolutionary algorithm techniques to a variety of practical problems including test suites with associated performance based on a variety of appropriate metrics as well as serial and parallel algorithm implementations

Operations and Production Systems with Multiple Objectives Behnam Malakooti, 2014-02-03 The first comprehensive book to uniquely combine the three fields of systems engineering operations production systems and multiple criteria decision making optimization Systems engineering is the art and science of designing engineering and building complex systems combining art science management and engineering disciplines Operations and Production Systems with Multiple Objectives covers all classical topics of operations and production systems as well as new topics not seen in any similar textbooks before small scale design of cellular systems large scale design of complex systems clustering productivity and efficiency measurements and energy systems Filled with completely new perspectives paradigms and robust methods of solving classic and modern problems the book includes numerous examples and sample spreadsheets for solving each problem a solutions manual and a book companion site complete with worked examples and supplemental articles Operations and Production Systems with Multiple Objectives will teach readers How operations and production systems are designed and planned How operations and production systems are engineered and optimized How to formulate and solve manufacturing systems problems How to model and solve interdisciplinary and systems engineering problems How to solve decision problems with multiple and conflicting objectives This book is ideal for senior undergraduate MS and PhD graduate students in all fields of engineering business and management as well as practitioners and researchers in systems engineering operations production and manufacturing

Multi-objective Management in Freight Logistics Massimiliano Caramia, Paolo Dell'Olmo, 2008-08-29 The content of this book is motivated by the recent changes in global markets and the availability of new transportation services Indeed the complexity of current supply chains suggests to decision makers in logistics to work with a set of efficient Pareto optimal solutions mainly to capture different economical aspects that in general one optimal solution related to a single objective function is not able to capture fully Motivated by these reasons we study freight transportation systems with a specific focus on multi objective modelling The goal is to provide decision makers with new methods and tools to implement multi objective optimization models in logistics The book combines theoretical aspects with applications showing the advantages and the drawbacks of adopting scalarization techniques and when it is worthwhile to reduce the problem to a goal programming one Also we show applications where more than one decision maker evaluates the effectiveness of the

logistic system and thus a multi level programming is sought to attain meaningful solutions After presenting the general working framework we analyze logistic issues in a maritime terminal Next we study multi objective route planning relying on the application of hazardous material transportation Then we examine freight distribution on a smaller scale as for the case of goods distribution in metropolitan areas Finally we present a human workforce problem arising in logistic platforms The general approach followed in the text is that of presenting mathematical algorithms and the related experimentations for each problem

Artificial Intelligence in Theory and Practice Max Bramer, 2006-10-11 The papers in this volume comprise the refereed proceedings of the conference Artificial Intelligence in Theory and Practice IFIP AI 2006 which formed part of the 19th World Computer Congress of IFIP the International Federation for Information Processing WCC 2006 in Santiago Chile in August 2006 The conference is organised by the IFIP Technical Committee on Artificial Intelligence Technical Committee 12 and its Working Group 12.5 Artificial Intelligence Applications All papers were reviewed by at least two members of our Programme Committee The best papers were selected for the conference and are included in this volume The international nature of IFIP is amply reflected in the large number of countries represented here The conference featured invited talks by Rose Dieng John Atkinson John Debenham and myself IFIP AI 2006 also included the Second IFIP Symposium on Professional Practice in Artificial Intelligence organised by Professor John Debenham which ran alongside the refereed papers I should like to thank the conference chair Professor Debenham for all his efforts in organising the Symposium and the members of our programme committee for reviewing an unexpectedly large number of papers to a very tight deadline This is the latest in a series of conferences organised by IFIP Technical Committee 12 dedicated to the techniques of Artificial Intelligence and their real world applications The wide range and importance of these applications is clearly indicated by the papers in this volume Further information about TCI 2 can be found on our website <http://www.ifiptc12.org>

Multiobjective Discrete and Combinatorial Optimization Matthias Ehrgott, 2006 **JCMCC**, 2006 **Forest Science**, 2006 *Multiagent Scheduling* Alessandro Agnetis, Jean-Charles Billaut, Stanisław Gawiejnowicz, Dario Pacciarelli, Amour Soukhal, 2014-01-31 Scheduling theory has received a growing interest since its origins in the second half of the 20th century Developed initially for the study of scheduling problems with a single objective the theory has been recently extended to problems involving multiple criteria However this extension has still left a gap between the classical multi criteria approaches and some real life problems in which not all jobs contribute to the evaluation of each criterion In this book we close this gap by presenting and developing multi agent scheduling models in which subsets of jobs sharing the same resources are evaluated by different criteria Several scenarios are introduced depending on the definition and the intersection structure of the job subsets Complexity results approximation schemes heuristics and exact algorithms are discussed for single machine and parallel machine scheduling environments Definitions and algorithms are illustrated with the help of examples and figures *Models and Algorithms for Planning and Scheduling Problems* Philippe Baptiste, 2004

Interfaces ,2005 Seeks to improve communication between managers and professionals in OR MS **Intelligent Strategies for Meta Multiple Criteria Decision Making** Thomas Hanne,2000-12-31 This book analyzes the meta decision problem the problem of the numerous MCDM methods that can be applied to a decision problem It provides two strategies to help the decision makers select and design an appropriate approach to a complex decision problem One strategy is to use machine learning to design an MCDM method The other is based on solving the meta decision problem interactively by selecting or designing a method suitable to the specific problem Examples of this approach explain the possibilities of applying the elaborated techniques and their mutual interplay Specific chapters explain the meta decision problem and discuss neural networks evolutionary learning combinations of MCDM methods loops and applications of loops c Book News Inc **Tijdschrift voor economie en management** ,2007 **Decision Making, Models and Algorithms** Saul I. Gass,1985-05-10 The first book to integrate the decision making process through mathematical modelling Using the concept of a decision framework the ideas of decision making models and algorithms are introduced to the reader by way of realistic and entertaining problems The structure form illustrations problems and challenges in this book provide a unique presentation of the subject matter **Integer Programming and Related Areas** Rabe v. Randow,1990-07-10 This fifth volume of a comprehensive bibliography lists all available publications on integer programming and combinatorial optimization from autumn 1984 to the end of 1987 The volume compiles and classifies 5867 new publications by 4680 authors under 50 different subject headings The listing covers theory and methods of general integer programming and applications of integer programming This classified bibliography will be an invaluable reference source for mathematicians working in optimization researchers working on integer programming techniques and industrial operations research departments The four earlier volumes were published as Lecture Notes in Economics and Mathematical Systems Vols 128 160 197 and 243 [TIMS/ORSA Bulletin](#) Institute of Management Sciences,1993 [The British National Bibliography](#) Arthur James Wells,2006 **Forthcoming Books** Rose Arny,2002

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