

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



Multicriteria Scheduling Theory Models And Algorithms:

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

Computational Intelligence in Flow Shop and Job Shop

Scheduling Uday K. Chakraborty, 2009-09-16 For over fifty years now the famous problem of flow shop and job shop scheduling has been receiving the attention of researchers in operations research engineering and computer science Over the past several years there has been a spurt of interest in computational intelligence heuristics and metaheuristics for solving this problem This book seeks to present a study of the state of the art in this field and also directions for future research

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Models and Algorithms of

Time-Dependent Scheduling Stanisław Gawiejnowicz, 2020-06-13 This is a comprehensive study of various time dependent scheduling problems in single parallel and dedicated machine environments In addition to complexity issues and exact or heuristic algorithms which are typically presented in scheduling books the author also includes more advanced topics such as matrix methods in time dependent scheduling time dependent scheduling with two criteria and time dependent two agent scheduling The reader should be familiar with the basic notions of calculus discrete mathematics and combinatorial optimization theory while the book offers introductory material on theory of algorithms NP complete problems and the basics of scheduling theory The author includes numerous examples figures and tables he presents different classes of algorithms using pseudocode he completes all chapters with extensive bibliographies and he closes the book with comprehensive symbol and subject indexes The previous edition of the book focused on computational complexity of time dependent scheduling problems In this edition the author concentrates on models of time dependent job processing times and algorithms for

solving time dependent scheduling problems The book is suitable for researchers working on scheduling problem complexity optimization heuristics and local search algorithms **Handbook on Scheduling** Jacek Blazewicz, Klaus H. Ecker, Erwin Pesch, Günter Schmidt, Malgorzata Sterna, Jan Weglarz, 2019-04-25 This handbook provides a comprehensive introduction to the theory and applications of scheduling in advanced planning and computer systems It addresses a broad audience including practitioners and researchers interested in scheduling as well as graduate and advanced undergraduate students in the fields of computer science and computer engineering operations research industrial and real time engineering management science business administration and information systems and applied mathematics The book begins by providing an introduction to and basic concepts from discrete mathematics Single and multiple processor systems are covered with a focus on multiprocessor tasks and hard real time systems Flow shop and open shop scheduling as well as scheduling in job shops are explained in detail Issues like limited processor availability time dependence resource constraints and imprecise computations are dealt with in dedicated chapters Special attention is given to online scheduling constraint programming and disjunctive scheduling The book also features applications and cases involving flexible manufacturing systems computer integrated production scheduling and logistics In particular it presents case studies on optimization procedures for the production of acrylic glass and of helicopter parts in a flexible manufacturing system an efficient decision support system for airport gate scheduling concrete delivery planning and berth and quay crane allocation at seaports

Manufacturing Scheduling Systems Jose M. Framinan, Rainer Leisten, Rubén Ruiz García, 2014-02-19 The book is devoted to the problem of manufacturing scheduling which is the efficient allocation of jobs orders over machines resources in a manufacturing facility It offers a comprehensive and integrated perspective on the different aspects required to design and implement systems to efficiently and effectively support manufacturing scheduling decisions Obtaining economic and reliable schedules constitutes the core of excellence in customer service and efficiency in manufacturing operations Therefore scheduling forms an area of vital importance for competition in manufacturing companies However only a fraction of scheduling research has been translated into practice due to several reasons First the inherent complexity of scheduling has led to an excessively fragmented field in which different sub problems and issues are treated in an independent manner as goals themselves therefore lacking a unifying view of the scheduling problem Furthermore mathematical brilliance and elegance has sometimes taken preference over practical general purpose hands on approaches when dealing with these problems Moreover the paucity of research on implementation issues in scheduling has restricted translation of valuable research insights into industry *Manufacturing Scheduling Systems An Integrated View on Models Methods and Tools* presents the different elements constituting a scheduling system along with an analysis the manufacturing context in which the scheduling system is to be developed Examples and case studies from real implementations of scheduling systems are presented in order to drive the presentation of the theoretical insights The book is intended for an ample readership

including industrial engineering operations post graduate students and researchers business managers and readers seeking an introduction to the field **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 **Online Scheduling in Manufacturing** Haruhiko Suwa,Hiroaki Sandoh,2012-10-11 Online scheduling is recognized as the crucial decision making process of production control at a phase of being in production according to the released shop floor schedule Online scheduling can be also considered as one of key enablers to realize prompt capable to promise as well as available to promise to customers along with reducing production lead times under recent globalized competitive markets Online Scheduling in Manufacturing introduces new approaches to online scheduling based on a concept of cumulative delay The cumulative delay is regarded as consolidated information of uncertainties under a dynamic environment in manufacturing and can be collected constantly without much effort at any points in time during a schedule execution In this approach the cumulative delay of the schedule has the important role of a criterion for making a decision whether or not a schedule revision is carried out The cumulative delay approach to trigger schedule revisions has the following capabilities for the practical decision making 1 To reduce frequent schedule revisions which do not necessarily improve a current situation with much expense for its operation 2 To avoid overreacting to disturbances dependent on strongly an individual shop floor circumstance and 3 To simplify the monitoring process of a schedule status Online Scheduling in Manufacturing will be of interest to both practitioners and researchers who work in planning and scheduling in manufacturing Readers will find the importance of when to revise policies during a schedule execution and their influences on scheduling results **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

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

Enterprise Information Systems Design, Implementation and Management Maria Manuela Cruz-Cunha, Joao Varajao, 2011-01-01 This book investigates the creation and implementation of enterprise information systems covering a wide array of topics such as flow shop scheduling information systems outsourcing ERP systems utilization Dietz transaction methodology and advanced planning systems Provided by publisher

Engineering Stochastic Local Search Algorithms. Designing, Implementing and Analyzing Effective Heuristics Thomas Stützle, Mauro Birattari, Holger H. Hoos, 2009-09-01 Stochastic local search SLS algorithms are established tools for the solution of computationally hard problems arising in computer science business administration engineering biology and various other disciplines To a large extent their success is due to their conceptual simplicity broad applicability and high performance for many important problems studied in academia and encountered in real world applications SLS methods include a wide spectrum of techniques ranging from constructive search procedures and iterative improvement algorithms to more complex SLS methods such as ant colony optimization evolutionary computation iterated local search memetic algorithms simulated annealing tabu search and variable neighborhood search Historically the development of effective SLS

algorithms has been guided to a large extent by experience and intuition. In recent years it has become increasingly evident that success with SLS algorithms depends not merely on the adoption and efficient implementation of the most appropriate SLS technique for a given problem but also on the mastery of a more complex algorithm engineering process. Challenges in SLS algorithm development arise partly from the complexity of the problems being tackled and in part from the many freedoms of freedom researchers and practitioners encounter when developing SLS algorithms. Crucial aspects in the SLS algorithm development comprise algorithm design, empirical analysis techniques, problem specific background and background knowledge in several key disciplines and areas including computer science, operations research, artificial intelligence and statistics.

Algorithmic Decision Theory Patrice Perny, Marc Pirlot, Alexis Tsoukiàs, 2013-10-28. This book constitutes the thoroughly refereed conference proceedings of the Third International Conference on Algorithmic Decision Theory ADT 2013 held in November 2013 in Bruxelles, Belgium. The 33 revised full papers presented were carefully selected from more than 70 submissions covering preferences in reasoning and decision making, uncertainty and robustness in decision making, multi-criteria decision analysis and optimization, collective decision making, learning and knowledge extraction for decision support.

Planning Production and Inventories in the Extended Enterprise Karl G. Kempf, Pinar Keskinocak, Reha Uzsoy, 2011-03-23. In two volumes: Planning Production and Inventories in the Extended Enterprise: A State of the Art Handbook examines production planning across the extended enterprise against a backdrop of important gaps between theory and practice. The early chapters describe the multifaceted nature of production planning problems and reveal many of the core complexities. The middle chapters describe recent research on theoretical techniques to manage these complexities. Accounts of production planning systems currently in use in various industries are included in the later chapters. Throughout the two volumes there are suggestions on promising directions for future work focused on closing the gaps. Included in Volume 1 are papers on the Historical Foundations of Manufacturing Planning and Control, Advanced Planning and Scheduling Systems, Sustainable Product Development and Manufacturing Uncertainty and Production Planning, Demand Forecasting, Production Capacity Data in Production and Supply Chain Planning, Financial Uncertainty in SC Models, Field Based Research in Production Control, Collaborative SCM Sequencing and Coordination in Outsourcing and Subcontracting, Operations Inventory Management, Pricing Variety and Inventory Decisions for Substitutable Items, Perishable and Aging Inventories, Optimization Models of Production Planning Problems, Aggregate Modeling of Manufacturing Systems, Robust Stability Analysis of Decentralized Supply Chains, Simulation in Production Planning and Simulation Optimization in Support of Tactical and Strategic Enterprise Decisions. Included in Volume 2 are papers on Workload and Lead Time Considerations under Uncertainty, Production Planning and Scheduling, Production Planning Effects on Dynamic Behavior of a Simple Supply Chain, Supply and Demand in Assemble to Order Supply Chains, Quantitative Risk Assessment in Supply Chains, A Practical Multi-Echelon Inventory Model with Semiconductor Application, Supplier Managed Inventory for Custom Items with Long

Lead Times Decentralized Supply Chain Formation A Cooperative Game Approach to Procurement Network Formation Flexible SC Contracts with Options Build to Order Meets Global Sourcing for the Auto Industry Practical Modeling in Automotive Production Discrete Event Simulation Models Diagnosing and Tuning a Statistical Forecasting System Enterprise Wide SC Planning in Semiconductor and Package Operations Production Planning in Plastics SC Execution Using Predictive Control Production Scheduling in The Pharmaceutical Industry Computerized Scheduling for Continuous Casting in Steelmaking and Multi Model Production Planning and Scheduling in an Industrial Environment **Artificial Intelligence and Soft Computing - ICAISC 2006** Leszek Rutkowski, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek Zurada, 2006-07-01 This book constitutes the refereed proceedings of the 8th International Conference on Artificial Intelligence and Soft Computing ICAISC 2006 held in Zakopane Poland in June 2006 The 128 revised contributed papers presented are organized in topical sections on neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications rough sets classification and clustering image analysis and robotics bioinformatics and medical applications various problems of artificial intelligence *Production Engineering and Management under Fuzziness* Cengiz Kahraman, Mesut Yavuz, 2010-05-19 Production engineering and management involve a series of planning and control activities in a production system A production system can be as small as a shop with only one machine or as big as a global operation including many manufacturing plants distribution centers and retail locations in multiple continents The product of a production system can also vary in complexity based on the material used technology employed etc Every product whether a pencil or an airplane is produced in a system which depends on good management to be successful Production management has been at the center of industrial engineering and management science disciplines since the industrial revolution The tools and techniques of production management have been so successful that they have been adopted to various service industries as well The book is intended to be a valuable resource to undergraduate and graduate students interested in the applications of production management under fuzziness The chapters represent all areas of production management and are organized to reflect the natural order of production management tasks In all chapters special attention is given to applicability and wherever possible numerical examples are presented While the reader is expected to have a fairly good understanding of the fuzzy logic the book provides the necessary notation and preliminary knowledge needed in each chapter *Quantum Inspired Intelligent Systems* Leandro dos Santos Coelho, 2008-05-29 Research on applying principles of quantum computing to improve the engineering of intelligent systems has been launched since late 1990s This emergent research field concentrates on studying on quantum computing that is characterized by certain principles of quantum mechanics such as standing waves interference quantum bits coherence superposition of states and concept of interference combined with computational intelligence or soft computing approaches such as artificial neural networks fuzzy systems evolutionary computing swarm intelligence and hybrid soft computing methods This volume offers a wide spectrum

of research work developed using soft computing combined with quantum computing systems 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.

Advances in Swarm Intelligence Ying Tan, Yuhui Shi, Ben Niu, 2016-09-05. This two-volume set LNCS 9712 and LNCS 9713 constitutes the refereed proceedings of the 7th International Conference on Swarm Intelligence ICSI 2016 held in Bali, Indonesia, in June 2016. The 130 revised regular papers presented were carefully reviewed and selected from 231 submissions. The papers are organized in 22 cohesive sections covering major topics of swarm intelligence and related areas such as trends and models of swarm intelligence research, novel swarm-based optimization algorithms, swarming behaviour, some swarm intelligence algorithms and their applications, hybrid search optimization, particle swarm optimization, PSO applications, ant colony optimization, brain storm optimization, fireworks algorithms, multi-objective optimization, large scale global optimization, biometrics, scheduling and planning, machine learning methods, clustering, algorithm classification, image classification and encryption, data mining, sensor networks and social networks, neural networks, swarm intelligence in management, decision making and operations research, robot control, swarm robotics, intelligent energy and communications systems, and intelligent and interactive and tutoring systems.

Recent Advances in Swarm Intelligence and Evolutionary Computation Xin-She Yang, 2014-12-27. This timely review volume summarizes the state-of-the-art developments in nature-inspired algorithms and applications with the emphasis on swarm intelligence and bio-inspired computation. Topics include the analysis and overview of swarm intelligence and evolutionary computation, hybrid metaheuristic algorithms, bat algorithm, discrete cuckoo search, firefly algorithm, particle swarm optimization, and harmony search, as well as convergent hybridization.

Application case studies have focused on the dehydration of fruits and vegetables by the firefly algorithm and goal programming feature selection by the binary flower pollination algorithm job shop scheduling single row facility layout optimization training of feed forward neural networks damage and stiffness identification synthesis of cross ambiguity functions by the bat algorithm web document clustering truss analysis water distribution networks sustainable building designs and others As a timely review this book can serve as an ideal reference for graduates lecturers engineers and researchers in computer science evolutionary computing artificial intelligence machine learning computational intelligence data mining engineering optimization and designs

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