

Vincent T'kindt
Jean-Charles Billaut

Multicriteria Scheduling

Theory,
Models
and
Algorithms

Second Edition

 Springer

Multicriteria Scheduling Theory Models And Algorithms

Author Vincent Tkindt Mar 2006

Frank Werner (Ed.)



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Multicriteria Scheduling Vincent T'Kindt, Jean-Charles Billaut, 2006-01-11 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.

Multiagent Scheduling Alessandro Agnetis, Jean-Charles Billaut, Stanisław Gawiejnowicz, Dario Pacciarelli, Amour Soukhal, 2014-02-04 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 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 Multicriteria Scheduling for a Single Machine Chuen-Lung Chen,1989

Scheduling with Time-Changing Effects and Rate-Modifying Activities Vitaly A. Strusevich,Kabir

Rustogi,2016-10-18 In scheduling theory the models that have attracted considerable attention during the last two decades allow the processing times to be variable i e to be subjected to various effects that make the actual processing time of a job dependent on its location in a schedule The impact of these effects includes but is not limited to deterioration and learning Under the first type of effect the later a job is scheduled the longer its actual processing time becomes In the case of learning delaying a job will result in shorter processing times Scheduling with Time Changing Effects and Rate Modifying Activities covers and advances the state of the art research in this area The book focuses on single machine and parallel machine scheduling problems to minimize either the maximum completion time or the sum of completion times of all jobs provided that the processing times are subject to various effects Models that describe deterioration learning and general non monotone effects to be considered include positional start time dependent cumulative and their combinations which cover most of the traditionally used models The authors also consider more enhanced models in which the decision maker may insert certain Rate Modifying Activities RMA on processing machines such as for example maintenance or rest periods In any case the processing times of jobs are not only dependent on effects mentioned above but also on the place of a job in a schedule relative to an RMA For most of the enhanced models described in the book polynomial time algorithms are presented which are based on similar algorithmic ideas such as reduction to linear assignment problems in a full form or in a reduced form discrete convexity and controlled generation of options **Polynomial-time Algorithms for**

Single-machine Multicriteria Scheduling J. A. Hoogeveen,S. L. van der Velde,Centrum voor Wiskunde en Informatica (Amsterdam, Netherlands). Department of Operations Research, Statistics, and System Theory,1990 *Deterministic*

Scheduling Theory R. Gary Parker,1996-02-01 The principal theme of this book is combinatorial scheduling All coverage is confined to deterministic results and includes conventional models involving single and multiple processors as well as ones of the classic flow and job shop like variety In addition the book discusses workforce staffing models timetabling problems the classroom assignment model and even problems related to traversals in graphs The author has included understandable descriptions of computational algorithms demonstrations of algorithms and theorems with sample problems and substantial lists of end of chapter exercises which span from relatively routine manipulation to increasingly challenging possibly even open problems An entire chapter is included on background material Covered are basic concepts in computational complexity the theory of graphs and partial enumeration The book should appeal to students and researchers in a host of areas including industrial engineering operations research computer science and discrete mathematics **Handbook of Scheduling**

Joseph Y-T. Leung,2004-04-27 Researchers in management industrial engineering operations and computer science have intensely studied scheduling for more than 50 years resulting in an astounding body of knowledge in this field Handbook of

Scheduling Algorithms Models and Performance Analysis the first handbook on scheduling provides full coverage of the most recent and advanced topics on the subject It assembles researchers from all relevant disciplines in order to facilitate cross fertilization and create new scheduling insights The book comprises six major parts each of which breaks down into smaller chapters Part I introduces materials and notation with tutorials on complexity theory and algorithms for the minimization of makespan total completion time dual objectives maximum lateness the number of late jobs and total tardiness Part II is devoted to classical scheduling problems Part III explores scheduling models that originate in computer science operations research and management science Part IV examines scheduling problems that arise in real time systems focusing on meeting hard deadline constraints while maximizing machine utilization Part V discusses stochastic scheduling and queueing networks highlighting jobs that are not deterministic Part VI covers applications discussing scheduling problems in airline process and transportation industries as well as in hospitals and educational institutions

Scheduling Michael L. Pinedo, 2022-12-13 The sixth edition provides expanded Discussion and Comments and References sections at the end of each chapter creating a spotlight on practical applications of the theory presented in that chapter New topics include rules for stochastic parallel machine scheduling and for stochastic online scheduling models of flow shops with reentry fixed parameter tractability and new designs and implementations of scheduling systems The main structure of the book as per previous edition consists of three parts The first part focuses on deterministic scheduling and the related combinatorial problems The second part covers probabilistic scheduling models in this part it is assumed that processing times and other problem data are random and not known in advance The third part deals with scheduling in practice it covers heuristics that are popular with practitioners and discusses system design and implementation issues All three parts of this new edition have been revamped and streamlined and the references have been made up to date Theoreticians and practitioners alike will find this book of interest Graduate students in operations management operations research industrial engineering and computer science will find the book an accessible and invaluable resource Scheduling Theory Algorithms and Systems will serve as an essential reference for professionals working on scheduling problems in manufacturing services and other environments Michael L Pinedo is the Julius Schlesinger Professor of Operations Management in the Stern School of Business at New York University

Scheduling Michael Pinedo, 2002 *Scheduling Theory* V. Tanaev, Yuri N. Sotskov, V.A. Strusevich, 2012-12-06 An increasing interest to scheduling theory can be attributed to the high level of automation of all branches of human activity The quality of modern production essentially depends on the planning decisions taken at different stages of a production process Moreover while the quality of these decisions is improving the time and flexibility requirements for decision making are becoming more important All this stimulates scheduling research Started as an independent discipline in the early fifties it now has become an important branch of operations research In the eighties the largest Russian publishing house for scientific literature Nauka Publishers Moscow issued two books by a group of Byelorussian mathematicians Scheduling

Theory Single Stage Systems by V S Tanaev V S Gordon and Y M Shafransky 1984 and Scheduling Theory Multi Stage Systems by V S Tanaev Y N Sotskov and V A Strusevich 1989 Originally published in Russian these two books cover two different major problem areas of scheduling theory and can be considered as a two volume monograph that provides a systematic and comprehensive exposition of the subject The authors are grateful to Kluwer Academic Publishers for creating the opportunity to publish the English translations of these two books We are indebted to M Hazewinkel J K Lenstra A H G Rinnooy Kan D B Shmoys and W Szwarc for their supporting the idea of translating the books into English

Scheduling Theory and Its Applications Philippe Chrétienne, 1995-09-11 Covering deterministic scheduling stochastic scheduling and the probabilistic analysis of algorithms this unusually broad view of the subject brings together tutorials surveys and articles with original results from foremost international experts The contributions reflect the great diversity in scheduling theory in terms of academic disciplines applications areas fundamental approaches and mathematical skills This book will help researchers to be aware of the progress in the various areas of specialization and the possible influences that this progress may have on their own specialities Few disciplines are driven so much by continually changing and expanding technology a fact that gives scheduling a permanence while adding to the excitement of designing and analyzing new systems The book will be a vital resource for researchers and graduate students of computer science applied mathematics and operational research who wish to remain up to date on the scheduling models and problems of many of the newest technologies in industry commerce and the computer and communications sciences

Time-Dependent Scheduling Stanisław Gawiejnowicz, 2010-11-22 The book presented to the reader is devoted to time dependent scheduling TScheduling problems in general consist in the allocation of resources over time in order to perform a set of jobs Any allocation that meets all requirements concerning the jobs and resources is called a feasible schedule The quality of a schedule is measured by a criterion function The aim of scheduling is to find among all feasible schedules a schedule that optimizes the criterion function A solution to an arbitrary scheduling problem consists in giving a polynomial time algorithm generating either an optimal schedule or a schedule that is close to the optimal one if the given scheduling problem has been proved to be computationally intractable The scheduling problems are subject of interest of the scheduling theory originated in mid fties of the twentieth century The theory has been developing dynamically and new research areas constantly come into existence The subject of this book ti dependent scheduling is one of such areas In time dependent scheduling the processing time of a job is variable and depends on the starting time of the job This crucial assumption allows us to apply the scheduling theory to a broader spectrum of problems For example in the framework of the time dependent scheduling theory we may consider the problems of repayment of multiple loans re ghting and maintenance assignments In this book we will discuss algorithms and complexity issues concerning various time dependent scheduling problems

Introduction to Scheduling Yves Robert, Frederic Vivien, 2009-11-18 Full of practical examples Introduction to Scheduling presents the basic concepts and

methods fundamental results and recent developments of scheduling theory With contributions from highly respected experts it provides self contained easy to follow yet rigorous presentations of the material The book first classifies scheduling problems and their complexity and then presents examples that demonstrate successful techniques for the design of efficient approximation algorithms It also discusses classical problems such as the famous makespan minimization problem as well as more recent advances such as energy efficient scheduling algorithms After focusing on job scheduling problems that encompass independent and possibly parallel jobs the text moves on to a practical application of cyclic scheduling for the synthesis of embedded systems It also proves that efficient schedules can be derived in the context of steady state scheduling Subsequent chapters discuss scheduling large and computer intensive applications on parallel resources illustrate different approaches of multi objective scheduling and show how to compare the performance of stochastic task resource systems The final chapter assesses the impact of platform models on scheduling techniques From the basics to advanced topics and platform models this volume provides a thorough introduction to the field It reviews classical methods explores more contemporary models and shows how the techniques and algorithms are used in practice

Algorithms for Scheduling Problems Larysa Burtseva, Yuri Sotskov, Frank Werner, 2018 *Algorithms for Scheduling Problems* Frank Werner (Ed.),

Multicriteria Scheduling Theory Models And Algorithms Author Vincent Tkindt Mar 2006 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Multicriteria Scheduling Theory Models And Algorithms Author Vincent Tkindt Mar 2006**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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