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Jürgen Zimmermann

# **Project Scheduling with Time Windows and Scarce Resources**

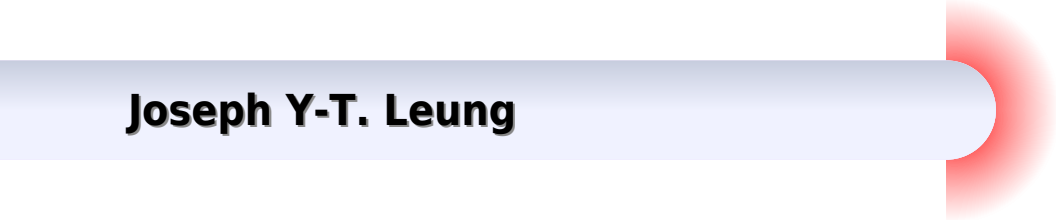
Temporal  
and Resource-Constrained Project Scheduling  
with Regular  
and Nonregular Objective Functions



Springer

# Project Scheduling With Time Windows And Scarce Resources

**Joseph Y-T. Leung**



## **Project Scheduling With Time Windows And Scarce Resources:**

*Project Scheduling with Time Windows and Scarce Resources* Klaus Neumann, Christoph Schwindt, Jürgen Zimmermann, 2013-06-29 A project is a unique undertaking or endeavor to be accomplished that can be divided into individual subtasks or activities each of which requires time and scarce resources for its completion Also there is a desired objective to be attained for example minimization of project duration or of variation of resource utilization or maximization of net present value of the project Moreover there are given precedence relationships among activities prescribing the order in which activities must be carried out Project scheduling in its basic form consists of finding start times for all activities such that prescribed resource and precedence constraints are satisfied and an objective function is optimized Since the concept of a project can be interpreted quite broadly project scheduling problems arise in a great variety of practical situations These include construction work the development and introduction of new products service systems or software packages strategic long term planning in manufacturing and the service sector emergency planning and even the conducting of political campaigns Recently project scheduling has been successfully applied to production and operations management e.g. make to order production in manufacturing and batch production in process industries Since the late 1950s network based planning methods for project scheduling problems have been developed cf. Elmaghraby 1977 and Moder et al

*Project Scheduling with Time Windows and Scarce Resources* Klaus Neumann, Christoph Schwindt, Jürgen Zimmermann, 2012-12-06 A survey of the state of the art of deterministic resource constrained project scheduling with time windows General temporal constraints and several different types of limited resources are considered A large variety of time based financial and resource based objectives important in practice are studied A thorough structural analysis of the feasible region of project scheduling problems and a classification and detailed investigation of objective functions are performed which can be exploited for developing efficient exact and heuristic solution methods New interesting applications of project scheduling to production and operations management as well as investment projects are discussed in the second edition

Project scheduling with time windows and scarce resources Klaus Neumann, 2000

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Evolutionary Computation in Combinatorial Optimization Carlos Cotta, 2007-03-30 This book constitutes the refereed proceedings of the 7th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2007 held in Valencia Spain in April 2007 The 21 revised full papers presented were carefully reviewed and selected from 81 submissions The papers cover evolutionary algorithms as well as various other metaheuristics like scatter search tabu search memetic algorithms variable neighborhood search greedy randomized adaptive search procedures ant colony optimization and particle swarm optimization algorithms The papers are specifically dedicated

**Resource-Constrained Project Scheduling** Christian Artigues, Sophie Demasse, Emmanuel Néron, 2013-03-01 This title presents a large variety of models and algorithms dedicated to the resource constrained project scheduling problem

RCPSP which aims at scheduling at minimal duration a set of activities subject to precedence constraints and limited resource availabilities In the first part the standard variant of RCPSP is presented and analyzed as a combinatorial optimization problem Constraint programming and integer linear programming formulations are given Relaxations based on these formulations and also on related scheduling problems are presented Exact methods and heuristics are surveyed Computational experiments aiming at providing an empirical insight on the difficulty of the problem are provided The second part of the book focuses on several other variants of the RCPSP and on their solution methods Each variant takes account of real life characteristics which are not considered in the standard version such as possible interruptions of activities production and consumption of resources cost based approaches and uncertainty considerations The last part presents industrial case studies where the RCPSP plays a central part Applications are presented in various domains such as assembly shop and rolling ingots production scheduling project management in information technology companies and instruction scheduling for VLIW processor architectures

Handbook on Project Management and Scheduling Vol.1 Christoph Schwindt,Jürgen Zimmermann,2015-01-13 Due to the increasing importance of product differentiation and collapsing product life cycles a growing number of value adding activities in the industry and service sector are organized in projects Projects come in many forms often taking considerable time and consuming a large amount of resources The management and scheduling of projects represents a challenging task and project performance may have a considerable impact on an organization s competitiveness This handbook presents state of the art approaches to project management and scheduling More than sixty contributions written by leading experts in the field provide an authoritative survey of recent developments The book serves as a comprehensive reference both for researchers and project management professionals The handbook consists of two volumes Volume 1 is devoted to single modal and multi modal project scheduling Volume 2 presents multi project problems project scheduling under uncertainty and vagueness managerial approaches and a separate part on applications case studies and information systems

**Project Scheduling** Erik Leuven Demeulemeester,Willy S. Herroelen,2006-04-11 Our objectives in writing Project Scheduling A Research Handbook are threefold 1 Provide a unified scheme for classifying the numerous project scheduling problems occurring in practice and studied in the literature 2 Provide a unified and up to date treatment of the state of the art procedures developed for their solution 3 Alert the reader to various important problems that are still in need of considerable research effort Project Scheduling A Research Handbook has been divided into four parts Part I consists of three chapters on the scope and relevance of project scheduling on the nature of project scheduling and finally on the introduction of a unified scheme that will be used in subsequent chapters for the identification and classification of the project scheduling problems studied in this book Part II focuses on the time analysis of project networks Part III carries the discussion further into the crucial topic of scheduling under scarce resources Part IV deals with robust scheduling and stochastic scheduling issues Numerous tables and figures are used throughout the

book to enhance the clarity and effectiveness of the discussions For the interested and motivated reader the problems at the end of each chapter should be considered as an integral part of the presentation

**Handbook of Scheduling** Joseph Y-T. Leung, 2004-04-27 This handbook provides full coverage of the most recent and advanced topics in scheduling assembling researchers from all relevant disciplines to facilitate new insights Presented in six parts these experts provides introductory material complete with tutorials and algorithms then examine classical scheduling problems Part 3 explores scheduling models that originate in areas such as computer science operations research The following section examines scheduling problems that arise in real time systems Part 5 discusses stochastic scheduling and queueing networks and the final section discusses a range of applications in a variety of areas from airlines to hospitals

**Handbook on Project Management and Scheduling Vol. 2** Christoph Schwindt, Jürgen Zimmermann, 2015-01-13 Due to the increasing importance of product differentiation and collapsing product life cycles a growing number of value adding activities in the industry and service sector are organized in projects Projects come in many forms often taking considerable time and consuming a large amount of resources The management and scheduling of projects represents a challenging task and project performance may have a considerable impact on an organization s competitiveness This handbook presents state of the art approaches to project management and scheduling More than sixty contributions written by leading experts in the field provide an authoritative survey of recent developments The book serves as a comprehensive reference both for researchers and project management professionals The handbook consists of two volumes Volume 1 is devoted to single modal and multi modal project scheduling Volume 2 presents multi project problems project scheduling under uncertainty and vagueness managerial approaches and a separate part on applications case studies and information systems

The Top Books of the Year Project Scheduling With Time Windows And Scarce Resources The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Project Scheduling With Time Windows And Scarce Resources : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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