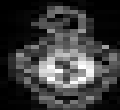


Klaus Neumann · Christoph Schwindt
Jürgen Zimmermann

Project Scheduling with Time Windows and Scarce Resources

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



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Project Scheduling With Time Windows And Scarce Resources

**Ulrike Leopold-Wildburger, Franz
Rendl, Gerhard Wäscher**



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 **Project Scheduling with Time Windows and Scarce Resources** Klaus Neumann, 2000 **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

Project Scheduling with Time Windows Ulrich Dorndorf, 2002-08-06 Project Scheduling is concerned with the allocation of scarce resources over time The rich optimisation models with time windows

that are treated in this book cover a multitude of practical decision problems arising in diverse application areas such as construction engineering or make to order production planning The book shows how Constraint Propagation techniques from Artificial Intelligence can be successfully combined with Operations Research methods for developing powerful exact and heuristic solution algorithms for a very general class of scheduling problems Example applications demonstrate the effectiveness of the approach

Resource-Constrained Project Scheduling Christian Artigues, Sophie Demassey, 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

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 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

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

Perspectives on Operations Research Martin Morlock,Christoph Schwindt,Norbert Trautmann,Jürgen Zimmermann,2007-10-31 This collection of essays is dedicated to Professor Klaus Neumann Head and Chair of the Institute for Economic Theory and Operations Research WiOR at the University of Karlsruhe On the occasion of his emeritation disciples colleagues scientific companions and friends coming from different fields have contributed their perspectives on Operations Research to form a broad view on the discipline The papers are organized in four parts on optimization OR in production and service management OR in logistics and interdisciplinary approaches We thank all the authors for their participation in publishing this volume Mrs Ute Wrasmann from Deutscher Universitäts Verlag deserves credit for her interest and assistance on this project Finally we would like to express our gratitude to PTV Planung Transport Verkehr AG in Karlsruhe and to numerous former WiOR colleagues for their financial support Klaus Neumann was born in Liegnitz Silesia in 1937 From 1955 to 1961 he studied mathematics at the Technical Universities of Dresden and Munich His first paper on analog computers and dynamic programming was published less than two years later In 1964 he obtained a Ph D in mathematics under the supervision of Josef Heinhold in Munich After a two year stay in industry he returned to his alma

mater working on the fields of dynamic optimization and control theory

Application of Mathematics and

Optimization in Construction Project Management Hêriş Golpîra, 2021-12-12 This book provides a broad overview of project and project management principles processes and success failure factors It also provides a state of the art of applications of the project management concepts especially in the field of construction projects based on the Project Management Body of Knowledge PMBOK The slate of geographically and professionally diverse authors illustrates project management as a multidisciplinary undertaking that integrates renewable and non renewable resources in a systematic process to achieve project goals The book describes assessment based on technical and operational goals and meeting schedules and budgets

Agent-Based Optimization Ireneusz Czarnowski, Piotr Jędrzejowicz, Janusz Kacprzyk, 2012-12-14 This volume presents a collection of original research works by leading specialists focusing on novel and promising approaches in which the multi agent system paradigm is used to support enhance or replace traditional approaches to solving difficult optimization problems The editors have invited several well known specialists to present their solutions tools and models falling under the common denominator of the agent based optimization The book consists of eight chapters covering examples of application of the multi agent paradigm and respective customized tools to solve difficult optimization problems arising in different areas such as machine learning scheduling transportation and more generally distributed and cooperative problem solving

Project Management and Risk Management in Complex Projects Pierre-Jean Charrel, Daniel Galarreta, 2007-03-21 Organizational semiotics offers a framework for understanding the processes that this project work entails in particular the interaction between individuals and groups and between human and technology The 8th session of the annual Organizational Semiotics Workshop held in June 2005 in Toulouse the French capital of aeronautics and space tested ideas from Organizational Semiotics against two issues from space projects on two illustrative cases provided by the Centre National d Etudes Spatiales CNES the government agency responsible for shaping and implementing France s space policy in Europe through its Technical Competency Centre in Management CCT MAN The management of complex highly innovative and multidisciplinary projects during their early volatile phases The management of risks faced by such projects that may run far into the future and beyond human intervention The twelve chapters of the book are the revised contributions of the workshop to these issues along with general themes of Organizational Semiotics

Operations

Research Proceedings 2001 Peter Chamoni, Rainer Leisten, Alexander Martin, Joachim Minnemann, Hartmut Stadtler, 2013-03-09 This volume contains the proceedings of the 200 I International Conference on Operations Research OR 2 01 held at the Gerhard Mercator University Duisburg September 3 5 2001 OR 200 1 was organized under the auspices of the German Society of Operations Research Gesellschaft f r Operations Research GOR e V The conference and the annual general meeting were attended by 360 participants from 20 countries The presentation of 220 papers was organized in 15 sections According to Duisburg as hosting city for this event OR 200 1 emphasized on contributions of OR in the areas of

energy transport and traffic The program consisted of 2 plenary lectures Reinhard Selten and Jörg Hennerkes and 15 invited semiplenary lectures 97 papers were submitted for publication Following the advice of the section chairs the program committee decided to accept 59 papers for this volume The selected manuscripts will be published also in electronic form on the World Wide Web at <http://www.uni-duisburg.de/or2001> We want to thank all referees and authors for delivering their final manuscript in due time We are also grateful to the other members of the local organizing committee and especially to Stefan Krebs Corinna Schu and David Betge for the perfect conference management Roland Dising Ralph Gollmer and Steffen Stock supported us in editing the abstracts and the final version of this proceeding volume Last but not least thanks to all the assistants and student assistants for their operations on OR 2001 in Duisburg

Essays in Production, Project Planning and Scheduling P. Simin Pulat, Subhash C. Sarin, Reha Uzsoy, 2013-12-02 From the Preface This festschrift is devoted to recognize the career of a man who not only witnessed the growth of operations research from its inception but also contributed significantly to this growth Dr Salah E Elmaghraby received his doctorate degree from Cornell University in 1958 and since then his scholarly contributions have enriched the fields of production planning and scheduling and project scheduling This collection of papers is contributed in his honor by his students colleagues and acquaintances It offers a tribute to the inspiration received from his work and from his guidance and advice over the years and recognizes the legacy of his many contributions Dr Elmaghraby is a pioneer in the area of project scheduling in particular project planning and control through network models for which he coined the term activity networks In his initial work in this area he developed an algebra based on signal flow graphs and semi Markov processes for analyzing generalized activity networks involving activities with probabilistic durations This work led to the development of what was later known as the Graphical Evaluation and Review Technique GERT and GERT simulation models He has made fundamental contributions in determining criticality indices for activities in developing methodologies for project compression and time cost analysis and in the use of stochastic and chance constrained programming and Petri Nets for the analysis of activity networks This volume brings together fourteen contributions which can be viewed under the following three main themes operations research and its application in production planning project scheduling and production scheduling inspired by and in many cases based on Dr Elmaghraby's work in these areas The first five chapters are devoted to the first theme followed by four chapters each devoted to the other two respectively An additional chapter is devoted to the vulnerability of multimodal freight systems

Principles and Practice of Constraint Programming - CP 2006 Frédéric Benhamou, 2006-09-29 This book constitutes the refereed proceedings of the 12th International Conference on Principles and Practice of Constraint Programming CP 2006 held in Nantes France in September 2006 The 42 revised full papers and 21 revised short papers presented together with extended abstracts of four invited talks were carefully reviewed and selected from 142 submissions All current issues of computing with constraints are addressed

Operations Research Proceedings 2002 Ulrike Leopold-Wildburger, Franz Rendl, Gerhard

Wäscher,2012-12-06 This proceedings volume contains a selection of papers presented at the International Conference on Operations Research SOR 2002 The contributions cover the broad interdisciplinary spectrum of Operations Research and present recent advances in theory development of methods and applications in practice Subjects covered are Production Logistics and Supply Chain Production Marketing and Data Analysis Transportation and Traffic Scheduling and Project Management Telecommunication and Information Technology Energy and Environment Public Economy Health Agriculture Education Banking Finance Insurance Risk Management Continuous Optimization Discrete and Combinatorial Optimization Stochastic and Dynamic Programming Simulation Control Theory Systems Dynamics Dynamic Games Game Theory Auctioning and Bidding Experimental Economics Econometrics Statistics and Mathematical Economics Fuzzy Logic Multicriteria Decision Making Decision Theory Artificial Intelligence and Machine Learning Khalid S. Soliman,2025-01-30 The two volume proceedings set CCIS 2299 and 2300 constitutes the refereed proceedings of the 43rd IBIMA Conference on Artificial intelligence and Machine Learning IBIMA AI 2024 held in Madrid Spain in June 26 27 2024 The 44 full papers and 18 short papers included in this book were carefully reviewed and selected from 119 submissions They were organized in topical sections as follows Part I Artificial Intelligence and Machine Learning Information Systems and Communications Technologies Part II Artificial Intelligence and Machine Learning Software Engineering Computer Security and Privacy

Lot-Sizing and Scheduling for Flexible Flow Lines Daniel Quadt,2012-09-14 The book considers the lot sizing and scheduling problem for flexible flow line production facilities Flexible flow lines are flow lines with parallel machines on some or all production stages They can be found in a vast number of industries A three phased solution approach is presented that solves the integrated lot sizing and scheduling problem in a hierarchical manner The approach is able to handle several important features relevant in industrial practice such as back orders and setup carry over The developed solution procedures solve practically sized problems in a relatively short amount of time One of the procedures is based on a novel mixed integer programming MIP model which employs integer variables instead of binary variables This makes it possible to find near optimal solutions using standard algorithms such as CPLEX Another procedure uses two nested Genetic Algorithms An application of the framework in the semiconductor industry is given

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