

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



Springer

Project Scheduling With Time Windows And Scarce Resources

Ulrich Dorndorf



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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 *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 and Scarce Resources Klaus Neumann, 2000 **Exakte Verfahren für das Ressourcennivellierungsproblem** Thorsten Gather, 2011-04-02 Die praktische Relevanz verdeutlicht der Autor am Beispiel sogenannter Revisionsprojekte in Kernkraftwerken sowie verschiedener Problemstellungen aus der

taktischen Projekt oder Unternehmensplanung **Projektplanung** Jürgen Zimmermann, Christoph Stark, Julia Rieck, 2005-12-16 Das vorliegende Lehrbuch bietet eine fundierte Einführung in die Planung und Steuerung von Projekten Es basiert auf Vorlesungen für Studierende betriebswirtschaftlich und technisch orientierter Studiengänge Grundlagen des Projektmanagements und der Projektplanung werden in didaktisch ansprechender Form vermittelt und anhand zahlreicher Beispiele illustriert Bei der Auswahl des Lehrstoffs wurde besonderer Wert auf die Praxisrelevanz der behandelten quantitativen Methoden gelegt Im Einzelnen behandelt das Buch die wesentlichen Managementaufgaben bei der Konzeption und Durchführung von Projekten deterministische und stochastische Netzplantechniken grundlegende Modelle und Verfahren zur Projektplanung unter Zeit und Ressourcenrestriktionen Methoden zur Kostenplanung von Projekten sowie Einsatzmöglichkeiten von Softwaresystemen zur Unterstützung des Projektplaners **Handbuch Produktions- und Logistikmanagement in Wertschöpfungsnetzwerken** Hans Corsten, Ralf Gössinger, Thomas S. Spengler, 2018-06-25 In dem Handbuch werden die wichtigsten Themenkomplexe des Produktions und Logistikmanagements sowohl theoretisch fundiert als auch mit Blick auf ihre praktische Relevanz behandelt Hierzu zählen Leistungsprogramm System und Prozessgestaltung Organisation und Personal Energie und Ressourceneffizienz Controlling sowie Digitalisierung

Energieorientierte Produktionsplanung Markus Rager, 2008-02-26 Steigende Energiepreise und gesetzliche Verpflichtungen zur Einsparung von Treibhausgasemissionen zwingen Unternehmen zu einem effizienteren Einsatz von Endenergie, egal ob wie etwa Erdgas, Heizöl oder elektrischem Strom Dabei liegt der Fokus neben technischen Lösungen zunehmend auch auf organisatorischen Maßnahmen Markus Rager zeigt vor diesem Hintergrund die Potentiale einer energieorientierten Produktionsplanung auf Kernelement ist dabei die energieorientierte Maschinenbelegungsplanung Er untersucht deren Zielsystem sowohl hinsichtlich technischer als auch betriebswirtschaftlicher Aspekte Darauf aufbauend entwickelt er für das zugrunde liegende kombinatorische Optimierungsproblem heuristische Lösungssansätze auf Basis evolutionärer Algorithmen und evaluiert sie anhand eines Beispiels aus der Textilindustrie Der Autor zeigt dass damit große Einsparungen an Endenergie, egal ob erreicht werden können **Project Scheduling with Time Windows** Ulrich Dorndorf, 2012-12-06 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 **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen**, 1996 *Tijdschrift voor economie en management*, 2007 *Principles and Practice of Constraint Programming*, 2004 *Naval Research Logistics*, 2000 The types of articles

most sought after by Naval Research Logistics fall into the following classes i modeling and analysis of problems motivated by current real world applications ii exploratory modeling and analysis of problems motivated by potential future real world applications iii major methodological advances and iv expository pieces of exceptional clarity Areas represented include but are not limited to probability statistics simulation optimization game theory scheduling reliability inventory decision analysis and combat models *Mathematical Reviews* ,2004 **Operations Research Proceedings 2001** Peter Chamoni,Rainer Leisten,Alexander Martin,Joachim Minnemann,Hartmut Stadtler,2002-05-27 This proceedings volume contains a selection of 97 papers presented at the International Conference on Operations Research OR 2001 the Annual Conference of the German Operations Research Society GOR 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 Transport and Traffic Energy and Environment Quantitative Methods in Marketing Production and Logistics and Supply Chain Management Finance and Banking and Insurance Scheduling and Project Planning Operations Research in the Health Service Continuous Optimization Discrete and Combinatorial Optimization Stochastic Optimization and Simulation Econometrics and Statistics and Mathematical Economics Decision Theory Artificial Intelligence and Fuzzy Logic Information and Decision Support Systems and Operations Research in the Internet Didactics of OR and Public Understanding **Business Research Yearbook** ,2007 **Advances in Project Scheduling** Roman Słowiński,Jan Węglarz,1989 This multi author volume containing contributions from international experts in the field presents recent developments in project scheduling for both theory and practice It is organized in three parts I Basic deterministic models II Special deterministic models III Stochastic models A variety of approaches is presented dealing with multiple category resource constraints different mathematical models of activities and various project performance measures in single and multiobjective formulation Exact and heuristic algorithms are presented for both deterministic and stochastic project description The volume will be of special interest to scientists students decision makers executive managers consultants and practitioners involved in systems management or operations research in particular in business engineering and finance but also in other areas of pure and applied sciences

Stochastic Optimization Techniques Kurt Marti,2002 Optimization problems arising in practice mostly contain several random parameters Hence in order to get robust optimal solutions with respect to random parameter variations the available statistical information about the random data should be considered already at the planning phase Thus the original problem with random coefficients must be replaced by an appropriate deterministic substitute problem This proceedings volume of the 4th GAMM IFIP Workshop on Stochastic Optimization Numerical Methods and Technical Applications held June 27 29 2000 at the Federal Armed Forces University Munich Neubiberg Munich contains new methods for the approximation and numerical solution of deterministic substitute problems especially the handling of mean value and probability functions as objective and or constraint functions Moreover many concrete applications from engineering and operations research can be

found in this book *American Book Publishing Record* ,2003

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