Theory Of Scheduling

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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

the theory of scheduling is receiving increased emphasis in research and practice for at least three good reasons f t the management of large scale projects resolves itself in the final analysis into problems of scheduling interacting activities subject to limited resources second a great deal of fat that used to exist in the past in production distribution and service systems is eliminated thanks to tighter managerial controls in information systems in financial management in logistics and in many other facets of industrial enterprises and military installations tighter scheduling methods are therefore called for thi d the study of scheduling problems involves the study of combina torial problems and optimization over discrete spaces which represent a radical and interesting departure from classical mathematics this area of study has attracted a good number of distinguished researchers engineers as well as mathematicians there is a serious attempt to apply known number theory and perhaps develop new theory that would cope with the new problems the computer enters the picture in novel and ingenious ways which has not been possible before etc to those workinq in the area whether in theory or in practice progress proceeds at an exhilarating pace with new mathematical structures and computational approaches being continuously introduced to model and solve the problems in novel and oftentimes ingenious ways

scheduling theory is an important branch of operations research problems studied within the framework of that theory have numerous applications in various fields of human activity as an independent discipline scheduling theory appeared in the middle of the fifties and has attracted the attention of researchers in many countries in the soviet union research in this direction has been mainly related to production scheduling especially to the development of automated systems for production control in 1975 nauka science publishers moscow issued two books providing systematic descriptions of scheduling theory the first one was the russian translation of the classical book theory of scheduling by american mathematicians r w conway w l maxwell and l w miller the other one was the book introduction to scheduling theory by soviet mathematicians v s tanaev and v v shkurba these books well complement each other both books well represent major results known by that time contain an exhaustive bibliography on the subject thus the books as well as the russian translation of computer and job shop scheduling theory edited by e g coffman jr nauka 1984 have contributed to the development of scheduling theory in the soviet union many different models the large number of new results make it difficult for the researchers who work in related fields to follow the fast development of scheduling theory and to master new methods and approaches quickly

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 toonline 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

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this handbook is in a sense a continuation of scheduling computer and manu facturing processes 1 two editions of which have received kind acceptance of a wide readership as the previous volume it is the result of a long lasting ger man polish collaboration however due to important reasons it has a new form namely following the suggestions of the publisher we decided to prepare a handbook filling out a gap on the market in the area the gap concerns a unified approach to the most important scheduling models and methods with the special emphasis put on their relevance to practical situations thus in comparison with 1 the contents has been changed significantly this concerns not only correc tions we have introduced following the suggestions made by many readers we are very grateful to all of them and taking into account our own experience but first of all this means that important new material has been added it is character ized in chapter 1 and generally speaking covers a transition from theory to ap plications in a wide spectrum of scheduling problems hidependently of this in all chapters new results have been reported and new illustrative material includ ing real world problems has been given we very much hope that in this way the handbook will be of interest to a much wider readership than the former volume the fact which has been under lined in the title

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 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 exits 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

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

this book presents a first attempt to systematically collect classify and solve various continuous time scheduling problems the classes of problems distinguish scheduling by the number of machines and products production constraints and performance measures although such

classes are usually considered to be a prerogative of only combinatorial scheduling literature the scheduling methodology suggested in this book is based on two mathematical tools optimal control and combinatorics generally considered as belonging to two totally different areas of research and application these seemingly irreconcilable tools can be integrated in a unique solution approach with the advantages of both this new approach provides the possibility of developing effective polynomial time algorithms to solve the generic scheduling problems this book is aimed at a student audience final year undergraduates as well as master and ph d students primarily in operations research management industrial engineering and control systems indeed some of the material in the book has formed part of the content of undergraduate and graduate courses taught at the industrial engineering department of tel aviv university the logistics department of bar ilan university and the technology management department of rolon center for technological education israel the book is also useful for practicing engineers interested in planning scheduling and optimization methods since the book addresses the theory and design of computer based scheduling algorithms applied mathematicians and computer software specialists engaged in developing scheduling software for industrial engineering and management problems will find that the methods developed here can be embedded very efficiently in large applications

a wiley interscience publication

this book constitutes the thoroughly refereed post conference proceedings of the 13th international conference on high performance computing in computational science vecpar 2018 held in são pedro brazil in september 2018 the 17 full papers and one short paper included in this book were carefully reviewed and selected from 32 submissions presented at the conference the papers cover the following topics heterogeneous systems shared memory systems and gpus and techniques including domain decomposition scheduling and load balancing with a strong focus on computational science applications

focusing on theory and applications of scheduling the applications are drawn primarily from production and manufacturing environments but state principles that are relevant to other settings as well the broad range of topics includes deterministic and stochastic models

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