

Konstantin Kogan and
Eugene Khmelnitsky

**SCHEDULING:
CONTROL-BASED
THEORY AND
POLYNOMIAL-TIME
ALGORITHMS**

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Scheduling Control Based Theory And Polynomial Time Algorithms

Léo Pomar

A decorative red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Scheduling Control Based Theory And Polynomial Time Algorithms:

Scheduling: Control-Based Theory and Polynomial-Time Algorithms K. Kogan, Eugene Khmelnitsky, 2000-10-31

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

Scheduling: Control-Based Theory and Polynomial-Time Algorithms K. Kogan, E. Khmelnitsky, 2013-11-27 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 *Scheduling in Industry 4.0 and Cloud Manufacturing* Boris Sokolov,Dmitry Ivanov,Alexandre Dolgui,2020-06-08 This book has resulted from the activities of IFAC TC 5.2 Manufacturing Modelling for Management and Control The book offers an introduction and advanced techniques of scheduling applications to cloud manufacturing and Industry 4.0 systems for larger audience This book uncovers fundamental principles and recent developments in the theory and application of scheduling methodology to cloud manufacturing and Industry 4.0 The purpose of this book is to present recent developments in scheduling in cloud manufacturing and Industry 4.0 and to systemize these developments in new taxonomies and methodological principles to shape this new research domain This book addresses the needs of both researchers and practitioners to uncover the challenges and opportunities of scheduling techniques applications to cloud manufacturing and Industry 4.0 For the first time it comprehensively conceptualizes scheduling in cloud manufacturing and Industry 4.0 systems as a new research domain The chapters of the book are written by the leading international experts and utilize methods of operations research industrial engineering and computer science Such a multi disciplinary combination is unique and comprehensively deciphers major problem taxonomies methodologies and applications to scheduling in cloud manufacturing and Industry 4.0 **Filter**

Design With Time Domain Mask Constraints: Theory and Applications Ba-Ngu Vo,Antonio Cantoni,Kok Lay Teo,2001-10-31 Optimum envelope constrained filter design is concerned with time domain synthesis of a filter such that its response to a specific input signal stays within prescribed upper and lower bounds while minimizing the impact of input noise on the filter output or the impact of the shaped signal on other systems depending on the application In many practical applications such as in TV channel equalization digital transmission and pulse compression applied to radar sonar and detection the soft least square approach which attempts to match the output waveform with a specific desired pulse is not the most suitable one Instead it becomes necessary to ensure that the response stays within the hard envelope constraints defined by a set of continuous inequality constraints The main advantage of using the hard envelope constrained filter formulation is that it admits a whole set of allowable outputs From this set one can then choose the one which results in the minimization of a cost function appropriate to the application at hand The signal shaping problems so formulated are semi infinite optimization problems This monograph presents in a unified manner results that have been generated over the past several years and are scattered in the research literature The material covered in the monograph includes problem formulation numerical optimization algorithms filter robustness issues and practical examples of the application of envelope constrained filter design Audience Postgraduate students researchers in optimization and telecommunications engineering and applied mathematicians **Intelligent Control Systems** Gábor Szederkényi,R. Lakner,M. Gerzson,2006-04-18

Intelligent control is a rapidly developing complex and challenging field with great practical importance and potential. Because of the rapidly developing and interdisciplinary nature of the subject there are only a few edited volumes consisting of research papers on intelligent control systems but little is known and published about the fundamentals and the general know how in designing implementing and operating intelligent control systems. Intelligent control system emerged from artificial intelligence and computer controlled systems as an interdisciplinary field. Therefore the book summarizes the fundamentals of knowledge representation reasoning expert systems and real time control systems and then discusses the design implementation verification and operation of real time expert systems using G2 as an example. Special tools and techniques applied in intelligent control are also described including qualitative modelling Petri nets and fuzzy controllers. The material is illustrated with simple examples taken from the field of intelligent process control.

Cooperative Control and Optimization Robert Murphey, Panos M. Pardalos, 2002-05-31 Table of contents

Generalized Optimal Control of Linear Systems with Distributed Parameters S.I. Lyashko, 2005-12-27 The author of this book made an attempt to create the general theory of optimization of linear systems both distributed and lumped with a singular control. The book touches upon a wide range of issues such as solvability of boundary value problems for partial differential equations with generalized right hand sides the existence of optimal controls the necessary conditions of optimality the controllability of systems numerical methods of approximation of generalized solutions of initial boundary value problems with generalized data and numerical methods for approximation of optimal controls. In particular the problems of optimization of linear systems with lumped controls pulse point pointwise mobile and so on are investigated in detail.

Optimization Theory F. Giannessi, Panos M. Pardalos, Tamás Rapcsák, 2013-12-01 This volume contains refereed papers based on the lectures presented at the XIV International Conference on Mathematical Programming held at Matrahaza Hungary between 27-31 March 1999. This conference was organized by the Laboratory of Operations Research and Decision Systems at the Computer and Automation Institute Hungarian Academy of Sciences. The editors hope this volume will contribute to the theory and applications of mathematical programming. As a tradition of these events the main purpose of the conference was to review and discuss recent advances and promising research trends concerning theory algorithms and applications in different fields of Optimization Theory and related areas such as Convex Analysis Complementarity Systems and Variational Inequalities. The conference is traditionally held in the Matra Mountains and housed by the resort house of the Hungarian Academy of Sciences. This was the 14th event of the long lasting series of conferences started in 1973. The organizers wish to express their thanks to the authors for their contributions in this volume and the anonymous referees for their valuable comments. Special thanks are directed to our sponsors the Hungarian Academy of Sciences the National Committee for Technological Development the Hungarian National Science Foundation and last but not least the Hungarian Operational Research Society. We would like to thank John Martindale from Kluwer Academic Publishers for helping us produce this

volume Eva Nora Nagy for corrections and proof readings and Peter Dombi for his excellent work on typesetting and editing the manuscript

Aspects of Semidefinite Programming E. de Klerk, 2006-04-18 Semidefinite programming has been described as linear programming for the year 2000 It is an exciting new branch of mathematical programming due to important applications in control theory combinatorial optimization and other fields Moreover the successful interior point algorithms for linear programming can be extended to semidefinite programming In this monograph the basic theory of interior point algorithms is explained This includes the latest results on the properties of the central path as well as the analysis of the most important classes of algorithms Several classic applications of semidefinite programming are also described in detail These include the Lovasz theta function and the MAX CUT approximation algorithm by Goemans and Williamson Audience Researchers or graduate students in optimization or related fields who wish to learn more about the theory and applications of semidefinite programming

Transportation Planning Michael Patriksson, Martine Labbé, 2006-04-18 This book collects selected presentations of the Meeting of the EURO Working Group on Transportation which took place at the Department of Mathematics at Chalmers University of Technology Göteborg or Gothenburg Sweden September 9-11 1998 The EURO Working Group on Transportation was founded at the end of the 7th EURO Summer Institute on Urban Traffic Management which took place in Cetraro Italy June 21-July 1991 There were around 30 founding members of the Working Group a number which now has grown to around 150 Meetings since then include Paris 1993 Barcelona 1994 and Newcastle 1996 About 100 participants were present enjoying healthy rain and a memorable conference dinner in the Feskekirka The total number of presentations at the conference was about 60 coming from quite diverse areas within the field of operations research in transportation and covering all modes of transport Deterministic traffic equilibrium models 6 papers Stochastic traffic equilibrium models 5 papers Combined traffic models 3 papers Dynamic traffic models 7 papers Simulation models 4 papers Origin destination matrix estimation 2 papers Urban public transport models 8 papers Aircraft scheduling 1 paper Ship routing 2 papers Railway planning and scheduling 6 papers Vehicle routing 3 papers Traffic management 3 papers Signal control models 3 papers Transportation systems analysis 5 papers

ix x **TRANSPORTATION PLANNING** Among these papers 14 were eventually selected to be included in this volume

Models for Parallel and Distributed Computation R. Correa, Ines de Castro Dutra, Mario Fiallos, Luiz Fernando Gomes da Silva, 2013-06-29 Parallel and distributed computation has been gaining a great lot of attention in the last decades During this period the advances attained in computing and communication technologies and the reduction in the costs of those technologies played a central role in the rapid growth of the interest in the use of parallel and distributed computation in a number of areas of engineering and sciences Many actual applications have been successfully implemented in various platforms varying from pure shared memory to totally distributed models passing through hybrid approaches such as distributed shared memory architectures Parallel and distributed computation differs from classical sequential computation in some of the following major aspects the

number of processing units independent local dock for each unit the number of memory units and the programming model For representing this diversity and depending on what level we are looking at the problem researchers have proposed some models to abstract the main characteristics or parameters physical components or logical mechanisms of parallel computers The problem of establishing a suitable model is to find a reasonable trade off among simplicity power of expression and universality Then be able to study and analyze more precisely the behavior of parallel applications Separable Programming S.M. Stefanov,2013-11-11 In this book the author considers separable programming and in particular one of its important cases convex separable programming Some general results are presented techniques of approximating the separable problem by linear programming and dynamic programming are considered Convex separable programs subject to inequality equality constraint s and bounds on variables are also studied and iterative algorithms of polynomial complexity are proposed As an application these algorithms are used in the implementation of stochastic quasigradient methods to some separable stochastic programs Numerical approximation with respect to I1 and I4 norms as a convex separable nonsmooth unconstrained minimization problem is considered as well Audience Advanced undergraduate and graduate students mathematical programming operations research specialists Financial Engineering, E-commerce and Supply Chain Panos M. Pardalos,Vassilis Tsitsiringos,2013-06-29 One of the fast growing elements of the Internet is electronic commerce which refers to the use of electronic means to conduct business transactions within or across business entities Nearly 80 percent of all Fortune 500 companies have been doing their core business through the Internet Many issues and societal implications of electronic commerce are the subjects of recent research A supply chain consists of all the entities and activities that enable the production distribution and delivery of products and services to consumers Research in designing and managing supply chains has rapidly expanded during the last decade In addition increased and accessible computing power and modeling capabilities have spurred this growth enabling researchers to simultaneously consider the many interrelated variables and decisions of a supply chain in a single tractable model Handbook of Management under Uncertainty Jaime Gil-Aluja,2013-12-01 A mere few years ago it would have seemed odd to propose a Handbook on the treatment of management problems within a sphere of uncertainty Even today on the threshold of the third millennium this statement may provoke a certain wariness In fact to resort to exact or random data that is probable date is quite normal and convenient as we then know where we are going best where we are proposing to go if all occurs as it is conceived and hoped for To treat uncertain information to accept a new principle and from there determined criteria without being sure of oneself and confiding only in the will to better understand objects and phenomena constitutes and compromise with a new form of understanding the behaviour of current beings that goes even further than simple rationality Economic Science and particularly the use of its elements of configuration in the world of management has imbued several generations with an analytical spirit that has given rise to the elaboration of theories widely accepted by the international scientific community In

this work we are proposing something a little more modest to use in the best possible way data and information that are available for drawing up and applying techniques and instruments that are useful for current reality within the world of businesses and institutions in an attempt to mislead ourselves as little as possible

Non-Connected Convexities and Applications G. Cristescu, L. Lupşa, 2013-12-01 Lectori salutem The kind reader opens the book that its authors would have liked to read it themselves but it was not written yet Then their only choice was to write this book to fill a gap in the mathematical literature The idea of convexity has appeared in the human mind since the antiquity and its fertility has led to a huge diversity of notions and of applications A student intending a thoroughgoing study of convexity has the sensation of swimming into an ocean It is due to two reasons the first one is the great number of properties and applications of the classical convexity and second one is the great number of generalisations for various purposes As a consequence a tendency of writing huge books guiding the reader in convexity appeared during the last twenty years for example the books of P M Gruber and J M Willis 1993 and R J Webster 1994 Another last years tendency is to order from some point of view as many convexity notions as possible for example the book of I Singer 1997 These approaches to the domain of convexity follow the previous point of view of axiomatizing it A Ghika 1955 W Prenowitz 1961 D Voiculescu 1967 V W Bryant and R J Webster 1969 Following this last tendency our book proposes to the reader two classifications of convexity properties for sets both of them starting from the internal mechanism of defining them

Trends in Industrial and Applied Mathematics Abul Hasan Siddiqi, M. Kocvara, 2013-12-01 An important objective of the study of mathematics is to analyze and visualize phenomena of nature and real world problems for its proper understanding Gradually it is also becoming the language of modern financial instruments To project some of these developments the conference was planned under the joint auspices of the Indian Society of Industrial and Applied mathematics ISIAM and Guru Nanak Dev University G N D U Amritsar India Dr Pammy Manchanda chairperson of Mathematics Department G N D U was appointed the organizing secretary and an organizing committee was constituted The Conference was scheduled in World Mathematics Year 2000 but due one reason or the other it could be held during 22-25 January 2001 However keeping in view the suggestion of the International Mathematics union we organized two symposia Role of Mathematics in industrial development and vice versa and How image of Mathematics can be improved in public These two symposia aroused great interest among the participants and almost everyone participated in the deliberations The discussion in these two themes could be summarized in the lengthy following lines Tradition of working in isolation is a barrier for interaction with the workers in the other fields of science and engineering what to talk of non academic areas specially the private sector of finance and industry Therefore it is essential to build bridges within institutions and between institutions

Multicriteria Decision Aid Classification Methods Michael Doumpos, Constantin Zopounidis, 2006-04-18 The book discusses a new approach to the classification problem following the decision support orientation of multicriteria decision aid The book reviews the existing research on the development of

classification methods investigating the corresponding model development procedures and providing a thorough analysis of their performance both in experimental situations and real world problems from the field of finance Audience Researchers and professionals working in management science decision analysis operations research financial banking analysis economics statistics computer science as well as graduate students in management science and operations research

Estimating Output-Specific Efficiencies D. Gstach, 2013-12-01 The present book is the offspring of my Habilitation which is the key to academic tenure in Austria Legal requirements demand that a Habilitation be published and so only seeing it in print marks the real end of this biographical landmark project From a scientific perspective I may hope to finally reach a broader audience with this book for a critical appraisal of the research done Aside from objectives the book is a reflection of many years of research preceding Habilitation proper in the field of efficiency measurement Regarding the subject matter the main intention was to fill an important remaining gap in the efficiency analysis literature Hitherto no technique was available to estimate output specific efficiencies in a statistically convincing way This book closes this gap although some desirable improvements and generalizations of the proposed estimation technique may yet be required before it will eventually establish as standard tool for efficiency analysis The likely audience for this book includes professional researchers who want to enrich their tool set for applied efficiency analysis as well as students of economics management science or operations research in tending to learn more about the potentials of rigorously understood efficiency analysis But also managers or public officials potentially or deriving efficiency studies should benefit from the book by learning about the extended capabilities of efficiency analysis Just reading the introduction may change their perception of value for money when it comes to comparative performance measurement *Mixed-Mode Modelling: Mixing Methodologies For*

Organisational Intervention M.G. Nicholls, S.A. Clarke, B. Lehaney, 2013-12-01 The 1980s and 1990s have seen a growing interest in research and practice in the use of methodologies within problem contexts characterised by a primary focus on technology human issues or power During the last five to ten years this has given rise to challenges regarding the ability of a single methodology to address all such contexts and the consequent development of approaches which aim to mix methodologies within a single problem situation This has been particularly so where the situation has called for a mix of technological the so called hard and human centred so called soft methods The approach developed has been termed mixed mode modelling The area of mixed mode modelling is relatively new with the phrase being coined approximately four years ago by Brian Lehaney in a keynote paper published at the 1996 Annual Conference of the UK Operational Research Society Mixed mode modelling as suggested above is a new way of considering problem situations faced by organisations Traditional technological approaches used in management science have suffered criticisms relating to their adequacy in the past few decades and these hard approaches have been replaced by soft methods which consider process more relevant than outcome However the sole use of human centred approaches to organisational problems has also proved to be inadequate Mixed mode

modelling accepts the importance of both process and outcome and provides enabling mechanisms for hard and soft investigation to be undertaken Numerical Data Fitting in Dynamical Systems Klaus Schittkowski, 2002-12-31 Real life phenomena in engineering natural or medical sciences are often described by a mathematical model with the goal to analyze numerically the behaviour of the system Advantages of mathematical models are their cheap availability the possibility of studying extreme situations that cannot be handled by experiments or of simulating real systems during the design phase before constructing a first prototype Moreover they serve to verify decisions to avoid expensive and time consuming experimental tests to analyze understand and explain the behaviour of systems or to optimize design and production As soon as a mathematical model contains differential dependencies from an additional parameter typically the time we call it a dynamical model There are two key questions always arising in a practical environment 1 Is the mathematical model correct 2 How can I quantify model parameters that cannot be measured directly In principle both questions are easily answered as soon as some experimental data are available The idea is to compare measured data with predicted model function values and to minimize the differences over the whole parameter space We have to reject a model if we are unable to find a reasonably accurate fit To summarize parameter estimation or data fitting respectively is extremely important in all practical situations where a mathematical model and corresponding experimental data are available to describe the behaviour of a dynamical system

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