Gang Yu (Ed.)

INDUSTRIAL APPLICATIONS OF COMBINATORIAL OPTIMIZATION

Industrial Applications Of Combinatorial Optimization

Helge Holden, Ragni Piene

Industrial Applications Of Combinatorial Optimization:

Industrial Applications of Combinatorial Optimization Gang Yu, 2013-03-14 Industries rely more and more on advanced technology Accelerated computer evolution makes large scale computation practical Many enterprises are be ginning to benefit from more efficient allocation of resources and more effective planning scheduling manufacturing and distribution by adopting state of the art decision support systems Academics increasingly emphasize application driven research All these forces have moved optimization from a pure class room and textbook terminology to an accepted tool in today s business world This book chronicles and describes applications of combinatorial optimization in industry A wide range of applications is included manpower planning production planning job sequencing and scheduling manufacturing layout design facility planning vehicle scheduling and routing retail seasonal planning I space shuttle scheduling and telecommunication network design The applications covered in this book comprise a representative set of industry sectors including electronics airlines manufacturing tobacco retail telecom munication defense and livestock These examples should encourage operations researchers and applied mathematicians by pointing out how the importance and practicality of optimization is starting to be realized by the manage ment of various organizations and how some pioneering developments in this field are beginning to Industrial Applications of Holonic and Multi-Agent Systems Vladimír Mařík, Petr Kadera, George bear fruit Rzevski, Alois Zoitl, Gabriele Anderst-Kotsis, A Min Tjoa, Ismail Khalil, 2019-08-19 This book constitutes the refereed proceedings of the 9th International Conference on Industrial Applications of Holonic and Multi Agent Systems HoloMAS 2019 held in Linz Austria in August 2019 The 14 full papers presented were carefully reviewed and selected from 15 submissions and 2 invited papers were also included The papers are organized in the following topical sections invited talks methodologies and framework agent based production scheduling and control data and knowledge and MAS in various areas

Advances in Information Technology and Industry Applications Dehuai Zeng, 2012-01-15 With success of ICEEE 2010 in Wuhan China and December 4 to 5 2010 the second International Conference of Electrical and Electronics Engineering ICEEE 2011 will be held in Macau China and December 1 to 2 2011 ICEEE is an annual conference to call together researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Electrical and Electronics Engineering along with Computer Science and Technology Communication Technology Artificial Intelligence Information Technology etc This year ICEEE is sponsored by International Industrial Electronics Center Hong Kong And based on the deserved reputation more than 750 papers have been submitted to ICEEE 2011 from which about 94 high quality original papers have been selected for the conference presentation and inclusion in the Advanced Computer Communication and Control book based on the referees comments from peer refereed All the papers will be published by Lecture Notes in Electrical Engineering ISSN 1876 1100 and will be included in Springer Link We expect that the Advanced Computer Communication and Control book will be a trigger for further related research

and technology improvements in the importance subject including Signal Processing Retrieval and Multimedia Artificial Intelligence Computing and Intelligent Systems Machine Learning Biometric and Biomedical Applications Neural Networks Knowledge Discovery and Data Mining Knowledge based Systems Control Systems Modeling and Simulation Techniques Wireless Communications Advances in Wireless Video etc Technological and Industrial Applications Associated With Industry 4.0 Alberto Ochoa-Zezzatti, Diego Oliva, Aboul Ella Hassanien, 2021-07-01 This book includes chapters related to the analysis of cultural differences as a tool to enrich tacit knowledge and make processes more efficient the factors that influence job satisfaction and the value of social capital as a competitive strategy to achieve productivity and competitiveness of organizations in addition to research of the utmost importance to discover the facets of the diamond with respect to the symbolic capital of the organizations where Generation Z will work and how it will discover the best time to establish an innovation ecosystem that will influence its work trajectory Industry 4 0 requires a major paradigm shift since human capital is a source of competitive advantage Being competitive enables to a company a region a society or a country the power to advance in different areas contributing to the benefit of a social group therefore and organizations need to make efforts that lead to adding value and generate a competitive advantage Industrial applications based on artificial intelligence can change our lives in just one generation The chapters in this book show progress and challenges related to real world applications as well as the need to strengthen human capital to achieve systemic and comprehensive competitiveness required in the XXI **Soft Computing Applications in Industry** Bhanu Prasad, 2008-02-13 Softcomputing techniques play a vital century role in the industry This book presents several important papers presented by some of the well known scientists from all over the globe The main techniques of soft computing presented include ant colony optimization artificial immune systems artificial neural networks Bayesian models The book includes various examples and application domains such as bioinformatics detection of phishing attacks and fault detection of motors Technological and Industrial Applications Associated with Intelligent Logistics Alberto Ochoa-Zezzatti, Diego Oliva, Angel Juan Perez, 2021-09-08 This book helps the reader to identify how different organizations in the context of diverse societies deploy their resources and leverage their capabilities to achieve better performance of its various labor skills marketing social responsibility and management capacity Intelligent Logistics is a complex phenomenon that has become critical for companies to reach their development locally and internationally On the one hand macro factors and market structure influence in business competitiveness but also in a regional or sector context The internal aspects and the use of various business tools contribute to the ability to create value in an organization It is of utmost importance to understand the relevance of crucial aspects in the technological future that should be known and implemented by the Z generation of its incidence in the use of organizational models linked to artificial intelligence Every innovative aspect in the use of new technologies for the distribution of goods and services will be crucial in a globalized world An avant garde society will require improved decision making regarding Logistics 4 0 and its

implementation in our lives respecting the environment and being sustainable together with invaluable principles of generating tacit knowledge for future generations *Industrial Applications of Green Solvents* Inamuddin, Mohd Imran Ahamed, Abdullah M. Asiri, 2019-06-20 Green chemistry aims at reducing pollution and avoiding hazardous waste in the environment as well as in a number of industrial applications including chemical pharmaceutical paint and leather industries. The book focuses on new applications of green solvents water ionic liquids supercritical carbon dioxide terpenes in such areas as chemical synthesis including lipase catalyzed reactions organic synthesis esterification reactions gas separation membranes environment friendly products low energy requirement processes and alternatives to hazardous substances

MemComputing Massimiliano Di Ventra, 2022-02-21 MemComputing is a new computing paradigm that employs time non locality memory to both process and store information This book written by the originator of this paradigm explains the main ideas behind MemComputing explores its theoretical foundations and shows its applicability to a wide variety of combinatorial optimization problems machine learning and quantum mechanics. The book is ideal for graduate students in Physics Computer Science Electrical Engineering and Mathematics as well as researchers in both academia and industry interested in unconventional computing The author relies on extensive margin notes important remarks and many illustrations to better explain the main concepts and clarify jargon making the book as self contained as possible The reader will be guided from the basic notions to the more advanced ones with an always clear and engaging writing style Along the way the reader will appreciate the advantages of this computing paradigm and the major differences that set it apart from the prevailing Turing model of computation and even quantum computing **Mixed-Mode Modelling: Mixing** Methodologies For Organisational Intervention M.G. Nicholls, S.A. Clarke, B. Lehaney, 2001-10-31 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 The Abel Prize 2018-2022 Helge Holden, Ragni Piene, 2024-04-25 The book presents the winners of the Abel Prize in mathematics for the period 2018 2022 Robert P Langlands 2018 Karen K Uhlenbeck 2019 Hillel Furstenberg and Gregory Margulis 2020 L szlo L v sz and Avi Wigderson 2021 Dennis P Sullivan 2022 The profiles feature autobiographical information as well as a scholarly description of each mathematician's work In addition each profile contains a Curriculum Vitae a complete bibliography and the full citation from the prize committee The book also includes photos from the period 2018 2022 showing many of the additional activities connected with the Abel Prize This book follows on The Abel Prize 2003 2007 The First Five Years Springer 2010 and The Abel Prize 2008 2012 Springer 2014 as well as on The Abel Prize 2013 2017 Springer 2019 which profile the previous Abel Prize laureates Optimal Flow Control in Manufacturing Systems O. Maimon, E. Khmelnitsky, K. Kogan, 2013-03-09 This book presents a unified optimal control approach to a large class of problems arising in the field of production planning and scheduling It introduces a leading optimal flow control paradigm which results in efficient solutions for planning and scheduling problems This book also introduces the reader to analytical and numerical methods of the maximum principle used here as a mathematical instrument in modeling and solving production planning and scheduling problems The book examines control of production flows rather than sequencing of distinct jobs Methodologically this paradigm allows us to progress from initial assumptions about a manufacturing environment through mathematical models and construction of numerical methods up to practical applications which prove the relevance of the theory developed here to the real world Given a manufacturing system the goal is to control the production subject to given constraints in such a way that the demands are tracked as closely as possible The book considers a wide variety of problems encountered in actual production planning and scheduling Among the problems are production flow sequencing and timing capacity expansion and deterioration subcontracting and overtime The last chapter is entirely devoted to applications of the theory to scheduling production flows in real life manufacturing systems. The enclosed disk provides software implementations of the developed methods with easy convenient user interface We aimed this book at a student audience final year undergraduates as well as Transportation Planning Michael Patriksson, Martine Labbé, 2006-04-18 This book collects selected master and Ph D presentations of the Meeting of the EURO Working Group on Transportation which took place at the Department of Ma ematics at Chalmers University of Technology G teborg or Gothenburg Sweden September 9 11 1998 The EURO Working Group on Transpor tion 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 Feskek rka The total number of presentations at the conference was about 60 coming from guite 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 Reformulation: Nonsmooth, Piecewise Smooth, Semismooth and Smoothing Methods Masao Fukushima, Ligun Qi, 2013-04-17 The concept of reformulation has long been playing an important role in mathematical programming A classical example is the penalization technique in constrained optimization that transforms the constraints into the objective function via a penalty function thereby reformulating a constrained problem as an equivalent or approximately equivalent unconstrained problem More recent trends consist of the reformulation of various mathematical programming prob lems including variational inequalities and complementarity problems into equivalent systems of possibly nonsmooth piecewise smooth or semismooth nonlinear equations or equivalent unconstrained optimization problems that are usually differentiable but in general not twice differentiable Because of the recent advent of various tools in nonsmooth analysis the reformulation approach has become increasingly profound and diversified In view of growing interests in this active field we planned to organize a cluster of sessions entitled Reformulation Nonsmooth Piecewise Smooth Semismooth and Smoothing Methods in the 16th International Symposium on Mathematical Programming ismp97 held at Lausanne EPFL Switzerland on August 24 29 1997 Responding to our invitation thirty eight people agreed to give a talk within the cluster which enabled us to organize thirteen sessions in total We think that it was one of the largest and most exciting clusters in the symposium Thanks to the earnest support by the speakers and the chairpersons the sessions attracted much attention of the participants and were filled with great enthusiasm of the audience Stable Parametric *Programming* S. Zlobec, 2013-11-21 Optimality and stability are two important notions in applied mathematics This book is a study of these notions and their relationship in linear and convex parametric programming models It begins with a survey of basic optimality conditions in nonlinear programming Then new results in convex programming using LFS functions for single objective multi objective differentiable and non smooth programs are introduced Parametric programming models are studied using basic tools of point to set topology Stability of the models is introduced essentially as continuity of the feasible set of decision variables under continuous perturbations of the parameters Perturbations that preserve this continuity are regions of stability It is shown how these regions can be identified The main results on stability are characterizations of locally and globally optimal parameters for stable and also for unstable perturbations. The results are straightened for linear models and bi level programs Some of the results are extended to abstract spaces after considering parameters as controls Illustrations from diverse fields such as data envelopment analysis management von Stackelberg games of market economy

and navigation problems are given and several case studies are solved by finding optimal parameters The book has been written in an analytic spirit Many results appear here for the first time in book form Audience The book is written at the level of a first year graduate course in optimization for students with varied backgrounds interested in modeling of real life problems It is expected that the reader has been exposed to a prior elementary course in optimization such as linear or non linear programming The last section of the book requires some knowledge of functional analysis 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 illlustrated with simple examples taken from the field of intelligent process control **Self-Organization of Complex Structures** Frank Schweitzer, 1997-07-16 During the past twenty years a broad spectrum of theories and methods have been developed in physics chemistry and molecular biology to explain structure formation in complex systems. These methods have been applied to many different fields such as economics sociology and town planning and this book reflects the interdisciplinary nature of complexity and self organisation The main focus is on the emergence of collective phenomena from individual or microscopic interactions Presents a wide ranging overview from fundamental aspects of the evolution of complexity to applications in biology ecology sociology economics and urban structure formation Tabu Search Fred W. Glover, Manuel Laguna, 2013-12-01 Faced with the challenge of solving hard optimization problems that abound in the real world classical methods often encounter great difficulty even when equipped with a theoretical guarantee of finding an optimal solution Vitally important applications in business engineering economics and science cannot be tackled with any reasonable hope of success within practical time horizons by solution methods that have been the predominant focus of academic research throughout the past three decades and which are still the focus of many textbooks The impact of technology and the advent of the computer age have presented us with the need and opportunity to solve a range of problems that could scarcely have been envisioned in the past Weare confronted with applications that span the realms of resource planning telecommunications VLSI design fmancial analysis scheduling space planning energy distribution molecular engineering logistics pattern classification flexible manufacturing waste management mineral exploration biomedical analysis environmental conservation and scores of others

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 **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 Ha bilitation 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 dering efficiency studies should benefit from the book by learning about the extended capabilities of efficiency analysis Just reading the intro duction may change their perception of value for money when it comes to comparative performance Nonlinear Programming and Variational Inequality Problems Michael Patriksson, 2013-06-29 Since I measurement

started working in the area of nonlinear programming and later on variational inequality problems I have frequently been surprised to find that many algorithms however scattered in numerous journals monographs and books and described rather differently are closely related to each other This book is meant to help the reader understand and relate algorithms to each other in some intuitive fashion and represents in this respect a consolidation of the field The framework of algorithms presented in this book is called Cost Approxi mation The preface of the Ph D thesis Pat93d explains the background to the work that lead to the thesis and ultimately to this book It describes for a given formulation of a variational inequality or nonlinear programming problem an algorithm by means of approximating mappings and problems a principle for the update of the iteration points and a merit function which guides and monitors the convergence of the algorithm One purpose of this book is to offer this framework as an intuitively appeal ing tool for describing an algorithm One of the advantages of the framework or any reasonable framework for that matter is that two algorithms may be easily related and compared through its use This framework is particular in that it covers a vast number of methods while still being fairly detailed the level of abstraction is in fact the same as that of the original problem statement

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