
DECOMPOSITION METHODS FOR COMPLEX FACTORY SCHEDULING PROBLEMS

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Decomposition Methods For Complex Factory Scheduling Problems

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Pedrycz, Janusz Kacprzyk**



Decomposition Methods For Complex Factory Scheduling Problems:

Decomposition Methods for Complex Factory Scheduling Problems Irfan M. Ovacik,Reha Uzsoy,2012-12-06 The factory scheduling problem that of allocating machines to competing jobs in manufacturing facilities to optimize or at least improve system performance is encountered in many different manufacturing environments Given the competitive pressures faced by many companies in today s rapidly changing global markets improved factory scheduling should contribute to a firm s success However even though an extensive body of research on scheduling models has been in existence for at least the last three decades most of the techniques currently in use in industry are relatively simplistic and have not made use of this body of knowledge In this book we describe a systematic long term research effort aimed at developing effective scheduling algorithms for complex manufacturing facilities We focus on a specific industrial context that of semiconductor manufacturing and try to combine knowledge of the physical production system with the methods and results of scheduling research to develop effective approximate solution procedures for these problems The class of methods we suggest decomposition methods constitute a broad family of heuristic approaches to large NP hard scheduling problems which can be applied in other environments in addition to those studied in this book

Operations Research Proceedings 2016 Andreas Fink,Armin Fügenschuh,Martin Josef Geiger,2017-07-20 This book includes a selection of refereed papers presented at the Annual International Conference of the German Operations Research Society OR2016 which took place at the Helmut Schmidt University Universität der Bundeswehr Hamburg Germany Aug 30 Sept 2 2016 Over 700 practitioners and academics from mathematics computer science business economics and related fields attended the conference The scientific program included around 475 presentations on the theme Analytical Decision Making focusing on the process of researching complex decision problems and devising effective solution methods towards better decisions The book presents papers discussing classical mathematical optimization statistics and simulation techniques Such approaches are complemented by computer science methods and tools for the processing of data and the design and implementation of information systems The book also examines recent advances in information technology which allow big data volumes to be treated and enable real time predictive and prescriptive business analytics to drive decisions and actions Further it includes problems modeled and treated under consideration of uncertainty risk management behavioral issues and strategic decision situations

Practical Aspects of Declarative Languages James Cheney,Simona Perri,2022-01-07 This book constitutes the refereed proceedings of the 24th International Conference on Practical Aspects of Declarative Languages PADL 2022 held in Philadelphia PA USA during January 17 18 2022 The 9 full papers and 4 short papers included in this book were carefully reviewed and selected from 22 submissions They were organized in topical sections as follows answer set programming functional programming languages methods and tools and declarative solutions

Handbook of Heuristics Rafael Martí,Panos M. Pardalos,Mauricio G.C. Resende,2025-11-17 The handbook of heuristics consists of five main parts search

strategies local search metaheuristics analysis and implementations and applications They cover from search methods and methodological aspects such as matheuristics the exciting field in which mathematical programming is combined with heuristics to applications that provide the practitioner with a description of some relevant optimization issues in a number of specific application areas such as scheduling vehicle routing or network optimization The first edition of the Handbook of Heuristics was published in 2018 and contained 47 chapters In this second edition the authors revised 30 of them to include new developments in the area that appeared in the last few years In particular the reader may find 14 chapters in search strategies including a new chapter on deep learning 4 in local search 14 in metaheuristics 5 in analysis and implementations and 24 in applications The inclusion of 14 new chapters makes this second edition even more comprehensive totaling 61 chapters

Recent Advances on Hybrid Approaches for Designing Intelligent Systems Oscar Castillo, Patricia Melin, Witold Pedrycz, Janusz Kacprzyk, 2014-03-26 This book describes recent advances on hybrid intelligent systems using soft computing techniques for diverse areas of application such as intelligent control and robotics pattern recognition time series prediction and optimization complex problems Soft Computing SC consists of several intelligent computing paradigms including fuzzy logic neural networks and bio inspired optimization algorithms which can be used to produce powerful hybrid intelligent systems The book is organized in five main parts which contain a group of papers around a similar subject The first part consists of papers with the main theme of type 2 fuzzy logic which basically consists of papers that propose new models and applications for type 2 fuzzy systems The second part contains papers with the main theme of bio inspired optimization algorithms which are basically papers using nature inspired techniques to achieve optimization of complex optimization problems in diverse areas of application The third part contains papers that deal with new models and applications of neural networks in real world problems The fourth part contains papers with the theme of intelligent optimization methods which basically consider the proposal of new methods of optimization to solve complex real world optimization problems The fifth part contains papers with the theme of evolutionary methods and intelligent computing which are papers considering soft computing methods for applications related to diverse areas such as natural language processing recommending systems and optimization

International Conference on Manufacturing Automation X. Y. Shao, C. Deng, 2004-12-27 The proceedings of the fourth ICMA in 2004 represent a huge contribution to research in this area Everyone attending the conference was asked to submit their papers electronically which meant that 100 top quality papers from no less than 10 different countries contributed to the theme of the conference

Online Scheduling in Manufacturing Haruhiko Suwa, Hiroaki Sandoh, 2012-10-11 Online scheduling is recognized as the crucial decision making process of production control at a phase of being in production according to the released shop floor schedule Online scheduling can be also considered as one of key enablers to realize prompt capable to promise as well as available to promise to customers along with reducing production lead times under recent globalized competitive markets Online Scheduling in Manufacturing introduces new approaches to

online scheduling based on a concept of cumulative delay The cumulative delay is regarded as consolidated information of uncertainties under a dynamic environment in manufacturing and can be collected constantly without much effort at any points in time during a schedule execution In this approach the cumulative delay of the schedule has the important role of a criterion for making a decision whether or not a schedule revision is carried out The cumulative delay approach to trigger schedule revisions has the following capabilities for the practical decision making 1 To reduce frequent schedule revisions which do not necessarily improve a current situation with much expense for its operation 2 To avoid overreacting to disturbances dependent on strongly an individual shop floor circumstance and 3 To simplify the monitoring process of a schedule status Online Scheduling in Manufacturing will be of interest to both practitioners and researchers who work in planning and scheduling in manufacturing Readers will find the importance of when to revise policies during a schedule execution and their influences on scheduling results

Proceedings of the Ninth Annual ACM-SIAM Symposium on Discrete Algorithms Howard Karloff,1998-01-01 This symposium is jointly sponsored by the ACM Special Interest Group on Algorithms and Computation Theory and the SIAM Activity Group on Discrete Mathematics

One-of-a-Kind Production Yiliu Tu,Paul Dean,2011-06-21 Despite the numerous competitive advantages of one of a kind production OKP the low efficiency and high costs associated with OKP companies threaten to push their business opportunities into the hands of cheaper overseas suppliers One of a Kind Production introduces a novel strategy and technology to help OKP companies to efficiently mass produce customized products In One of a Kind Production case studies from OKP companies are used to validate the feasibility and effectiveness of the OKP strategy and technology These case studies include a structural steel construction company a manufacturer of specifically ordered compressors and refrigeration systems a customized high pressure vessel manufacturing company and a custom window and door manufacturer To help readers understand OKP strategy and technology the authors offer a year s free access to the OKP Management and Control Software System This system is based on a new integrated production control and management concept namely product production structure It is a useful tool and One of a Kind Production is a valuable guide for production engineers and managerial staff in manufacturing companies as well as for university researchers and graduate students

Naval Research Logistics ,2006 **Control Problems in Robotics and Automation** Bruno Siciliano,Kimon P. Valavanis,1998-01-20 Focusing on the important control problems in state of the art robotics and automation this volume features invited papers from a workshop held at CDC San Diego California As well as looking at current problems it aims to identify and discuss challenging issues that are yet to be solved but which will be vital to future research directions The many topics covered include automatic control distributed multi agent control multirobots dexterous hands flexible manipulators walking robots free floating systems nonholonomic robots sensor fusion fuzzy control virtual reality visual servoing and task synchronization Control Problems in Robotics and Automation will be of interest to all researchers scientists and graduate students who wish to broaden their knowledge in

robotics and automation and prepare themselves to address and resolve the control problems that will be faced in this field as we enter the twenty first century **Twenty First IEEE/CPMT International Electronics Manufacturing Technology Symposium, October 13-15, 1997, Austin, TX, USA** Don Millard, Semiconductor Equipment and Materials International, Components, Packaging & Manufacturing Technology Society, 1997 The IEMT symposium provides a forum for sharing experiences and knowledge based on microelectronic research and development This volume is the result of the 1997 symposium and topics include flip chip and TAB substrate soldering process manufacturing and packaging technology

Scheduling Back-end Semiconductor Manufacturing Payman Jula, 2002 **Simulated Learning and Genetic Programming with Application to Undecidable Problems** Jinhwa Kim, 2001 **IEEE/CPMT International Electronic Manufacturing Technology Symposium : [proceedings].** ,1997 *Just-in-time Scheduling with Inventory Holding Costs* Kerem Bulbul, 2002 **Production Scheduling for Suppliers in the Extended Enterprise** Yunpeng Pan, 2003

Scheduling Michael Pinedo, 2002 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 **Proceedings of the ... Annual ACM-SIAM Symposium on Discrete Algorithms** ,1998 **Seventeenth IEEE/CPMT International Electronics Manufacturing Technology Symposium** ,1995

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