

Toán Phan Huy

Constraint Propagation in Flexible Manufacturing



Constraint Propagation In Flexible Manufacturing

Hussin A.Rothana



Constraint Propagation In Flexible Manufacturing:

Constraint Propagation in Flexible Manufacturing Toan Phan Huy, 2011-09-27 **Constraint Propagation in Flexible Manufacturing** Toan Phan Huy, 2000-09-04 This book provides a thorough analysis of scheduling problems that arise in a flexible manufacturing environment with scarce resource supply Generalizations of the famous job shop scheduling problem are discussed As a basic and common technique for solving these problems constraint propagation is applied in various solution methods The effectiveness of constraint propagation is demonstrated by the solution of a high number of benchmark problem instances **Handbook on Scheduling** Jacek Blazewicz, Klaus H. Ecker, Erwin Pesch, Günter Schmidt, Malgorzata Sterna, Jan Weglarz, 2019-04-25 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 to online 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 **Handbook on Scheduling** Jacek Błażewicz, Klaus H. Ecker, Erwin Pesch, Günter Schmidt, Jan Weglarz, 2007-06-12 This book provides a theoretical and application oriented analysis of deterministic scheduling problems in advanced planning and computer systems The text examines scheduling problems across a range of parameters job priority release times due dates processing times precedence constraints resource usage and more focusing on such topics as computer systems and supply chain management Discussion includes single and parallel processors flexible shops and manufacturing systems and resource constrained project scheduling Many applications from industry and service operations management and case studies are described The handbook will be useful to a broad audience from researchers to practitioners graduate and advanced undergraduate students **Computer control of flexible manufacturing systems** S. Joshi, J.S. Smith, 2012-12-06 With the approach of the 21st century and the current trends in manufacturing the role of computer controlled flexible manufacturing an integral part in the success of manufacturing enterprises will take Manufacturing environments are changing to small batch with

batch sizes diminishing to a quantity of one larger product variety production on demand with low lead times with the ability to be agile This is in stark contrast to conventional manufacturing which has relied on economies of scale and where change is viewed as a disruption and is therefore detrimental to production Computer integrated manufacturing CIM and flexible manufacturing practices are a key component in the transition from conventional manufacturing to the new manufacturing environment While the use of computers in manufacturing from controlling individual machines NC Robots AGVs etc to controlling flexible manufacturing systems FMS has advanced the flexibility of manufacturing environments it is still far from reaching its full potential in the environment of the future Great strides have been made in individual technologies and control of FMS has been the subject of considerable research but computerized shop floor control is not nearly as flexible or integrated as hyped in industrial and academic literature In fact the integrated systems have lagged far behind what could be achieved with existing technology

Integrating Constraint Programming, Artificial Intelligence, and Operations

Research Torsten Fahle,2002 *Operations Research Models in Flexible Manufacturing Systems* Francesco Archetti,Mario Lucertini,Paolo Serafini,1989 Lot-Sizing and Scheduling for Flexible Flow Lines Daniel Quadt,2012-09-14 The book considers the lot sizing and scheduling problem for flexible flow line production facilities Flexible flow lines are flow lines with parallel machines on some or all production stages They can be found in a vast number of industries A three phased solution approach is presented that solves the integrated lot sizing and scheduling problem in a hierarchical manner The approach is able to handle several important features relevant in industrial practice such as back orders and setup carry over The developed solution procedures solve practically sized problems in a relatively short amount of time One of the procedures is based on a novel mixed integer programming MIP model which employs integer variables instead of binary variables This makes it possible to find near optimal solutions using standard algorithms such as CPLEX Another procedure uses two nested Genetic Algorithms An application of the framework in the semiconductor industry is given

Modeling Manufacturing Systems Paolo Brandimarte,Agostino Villa,1999-03-29 Advanced modeling techniques are a necessary tool in order to design and manage manufacturing systems effectively This book contains a set of tutorial chapters on topics ranging from aggregate production planning to real time control including predictive and reactive scheduling flow management in assembly systems simulation of robotic cells design of manufacturing systems under uncertainty and a historical perspective on production management philosophies The book will be of interest both to researchers and practitioners including graduate students in Manufacturing Engineering and Operations Research

Manufacturing, Modeling, Management and Control (MIM 2000) Peter P. Groumpos,A. P. Tzes,2001 This Proceedings contains the papers presented at the IFAC Symposium on Manufacturing Modeling Management and Control MIM 2000 held in Patras Greece on 12-14 July 2000 MIM is a long running series of IFAC meetings featuring the best work on the development comparison and classification of manufacturing systems In this Proceedings key engineering topics such as agile manufacturing and

intelligent manufacturing are presented alongside more management related issues as well as some of the fundamental control theory applicable to these areas Altogether over 90 papers are presented

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

Flexible Automation and Integrated Manufacturing, 1993

Project Scheduling with Time Windows and Scarce Resources
Klaus Neumann, Christoph Schwindt, Jgen Zimmermann, 2002 The book presents the state of the art of deterministic resource constrained project scheduling with time windows General temporal constraints arising from minimum and maximum time lags between project activities 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

Mathematical Reviews, 2001

Learning in Automated Manufacturing Erwin Pesch, 1994-08-30 The central purpose of this book is to acquaint the reader especially with the cases of local search based learning as well as to introduce methods of constraint based reasoning both with respect to their use in automated manufacturing We restrict our attention to job shop scheduling as well as to one machine scheduling with sequence dependent setup times Additionally some design and planning issues in flexible manufacturing systems are considered General purpose search methods which in particular include methods from local search such as simulated annealing tabu search and genetic algorithms are the basic ingredients of the proposed intelligent knowledge based scheduling systems enriched by a number of constraint based local decision rules in order to introduce problem specific knowledge

Proceedings of the 14th International Conference on Flexible Automation and Intelligent Manufacturing. Vol. 2. Intelligent Manufacturing Lihui Wang, National Research Council Canada, International Conference on Flexible Automation and Intelligent Manufacturing (14th : 2004 : Ryerson University), 2004

American Book Publishing Record, 2000-07

Proceedings of Manufacturing International '88: Symposium on manufacturing systems - design, integration, and control, 1988

Aanwinsten van de Centrale

Bibliotheek (Queteletfonds) Bibliothèque centrale (Fonds Quetelet),2001 Information Control Problems in Manufacturing Technology 1989 E.A. Puente,L. Nemes,1990-09-14 The Symposium presented and discussed the latest research on new theories and advanced applications of automatic systems which are developed for manufacturing technology or are applicable to advanced manufacturing systems The topics included computer integrated manufacturing simulation and the increasingly important areas of artificial intelligence and expert systems and applied them to the broad spectrum of problems that the modern manufacturing engineer is likely to encounter in the design and application of increasingly complex automatic systems

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