

Artificial Intelligence in Reactive Scheduling

Edited by
**Roger Kern and
Elizabeth Szelke**



INTERNATIONAL FEDERATION OF
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Artificial Intelligence In Reactive Scheduling

P.J. Fleming, D.I. Jones



Artificial Intelligence In Reactive Scheduling:

Artificial Intelligence in Reactive Scheduling R. Kerr, E. Szelke, 2016-01-09 This volume encompasses state of the art developments in AI based reactive scheduling for real time operation management in manufacturing shop floors It is a collection of papers from the Second International Workshop of the IFIP Working Group 5.7 which brought together researchers from management information systems and knowledge engineering to expand the focus on applying new knowledge based techniques

Artificial Intelligence Planning Systems James Hendler, 1992

Advances in Artificial Intelligence Maria Carolina Monard, 2000-10-25 This book constitutes the refereed joint proceedings of the 7th Ibero American Conference on AI and the 15th Brazilian Symposium on AI IBERAMIA SBIA 2000 held in Atibaia Brazil in November 2000 The 48 revised full papers presented together with two invited contributions were carefully reviewed and selected from a total of 156 submissions The papers are organized in topical sections on knowledge engineering and case based reasoning planning and scheduling distributed AI and multi agent systems AI in education and intelligent tutoring systems knowledge representation and reasoning machine learning and knowledge acquisition knowledge discovery and data mining natural language processing robotics computer vision uncertainty and fuzzy systems and genetic algorithms and neural networks

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems Alexandre Dolgui, Alain Bernard, David Lemoine, Gregor von Cieminski, David Romero, 2021-08-31 The five volume set IFIP AICT 630 631 632 633 and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2021 held in Nantes France in September 2021 The 378 papers presented were carefully reviewed and selected from 529 submissions They discuss artificial intelligence techniques decision aid and new and renewed paradigms for sustainable and resilient production systems at four wall factory and value chain levels The papers are organized in the following topical sections Part I artificial intelligence based optimization techniques for demand driven manufacturing hybrid approaches for production planning and scheduling intelligent systems for manufacturing planning and control in the industry 4.0 learning and robust decision support systems for agile manufacturing environments low code and model driven engineering for production system metaheuristics and optimization techniques for energy oriented manufacturing systems metaheuristics for production systems modern analytics and new AI based smart techniques for replenishment and production planning under uncertainty system identification for manufacturing control applications and the future of lean thinking and practice Part II digital transformation of SME manufacturers the crucial role of standard digital transformations towards supply chain resiliency engineering of smart product service systems of the future lean and Six Sigma in services healthcare new trends and challenges in reconfigurable flexible or agile production system production management in food supply chains and sustainability in production planning and lot sizing Part III autonomous robots in delivery logistics digital transformation approaches in production management

finance driven supply chain gastronomic service system design modern scheduling and applications in industry 4 0 recent advances in sustainable manufacturing regular session green production and circularity concepts regular session improvement models and methods for green and innovative systems regular session supply chain and routing management regular session robotics and human aspects regular session classification and data management methods smart supply chain and production in society 5 0 era and supply chain risk management under coronavirus Part IV AI for resilience in global supply chain networks in the context of pandemic disruptions blockchain in the operations and supply chain management data based services as key enablers for smart products manufacturing and assembly data driven methods for supply chain optimization digital twins based on systems engineering and semantic modeling digital twins in companies first developments and future challenges human centered artificial intelligence in smart manufacturing for the operator 4 0 operations management in engineer to order manufacturing product and asset life cycle management for smart and sustainable manufacturing systems robotics technologies for control smart manufacturing and logistics serious games analytics improving games and learning support smart and sustainable production and supply chains smart methods and techniques for sustainable supply chain management the new digital lean manufacturing paradigm and the role of emerging technologies in disaster relief operations lessons from COVID 19 Part V data driven platforms and applications in production and logistics digital twins and AI for sustainability regular session new approaches for routing problem solving regular session improvement of design and operation of manufacturing systems regular session crossdock and transportation issues regular session maintenance improvement and lifecycle management regular session additive manufacturing and mass customization regular session frameworks and conceptual modelling for systems and services efficiency regular session optimization of production and transportation systems regular session optimization of supply chain agility and reconfigurability regular session advanced modelling approaches regular session simulation and optimization of systems performances regular session AI based approaches for quality and performance improvement of production systems and regular session risk and performance management of supply chains The conference was held online *Knowledge-Based Systems, Four-Volume Set* Cornelius T. Leondes, 2000-07-11 The design of knowledge systems is finding myriad applications from corporate databases to general decision support in areas as diverse as engineering manufacturing and other industrial processes medicine business and economics In engineering for example knowledge bases can be utilized for reliable electric power system operation In medicine they support complex diagnoses while in business they inform the process of strategic planning Programmed securities trading and the defeat of chess champion Kasparov by IBM's Big Blue are two familiar examples of dedicated knowledge bases in combination with an expert system for decision making With volumes covering Implementation Optimization Computer Techniques and Systems and Applications this comprehensive set constitutes a unique reference source for students practitioners and researchers in computer science engineering and the broad range of

applications areas for knowledge based systems **Supply-Chain Optimization, Part II** ,2007-11-28 Inspired by the leading authority in the field the Centre for Process Systems Engineering at Imperial College London this book includes theoretical developments algorithms methodologies and tools in process systems engineering and applications from the chemical energy molecular biomedical and other areas It spans a whole range of length scales seen in manufacturing industries from molecular and nanoscale phenomena to enterprise wide optimization and control As such this will appeal to a broad readership since the topic applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge The ultimate reference work for years to come *Advances in Applied Artificial Intelligence* Moonis Ali,Richard Dapoigny,2006-06-27 This book constitutes the refereed proceedings of the 19th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA AIE 2006 held in Annecy France June 2006 The book presents 134 revised full papers together with 3 invited contributions organized in topical sections on multi agent systems decision support genetic algorithms data mining and knowledge discovery fuzzy logic knowledge engineering machine learning speech recognition systems for real life applications and more **Modeling Manufacturing Systems** Paolo Brandimarte,Agostino Villa,2013-03-09 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 **Mastering Time - Innovative Solutions to Complex Scheduling Problems** Ali Soofastaei,2025-05-07 Time is one of our most valuable resources yet managing it effectively is often one of the toughest challenges Mastering Time Innovative Solutions to Complex Scheduling Problems is a comprehensive guide introducing new methods and solutions to solve complex scheduling problems in professional contexts By mastering these creative solutions you can gain control over your time This book presents practical strategies and tools to streamline workflows optimize resource allocation and tackle bottlenecks head on Whether you are managing multiple projects balancing competing priorities or simply seeking to organize your time better the insights provided in this book will help you unlock new levels of productivity and efficiency With real world examples cutting edge technologies like artificial intelligence and time tested techniques Mastering Time Innovative Solutions to Complex Scheduling Problems equips readers with the knowledge and tools to transform even the most challenging schedules into manageable efficient plans Dive into the future of scheduling where complexity is simplified and time is truly mastered

Knowledge-Based Intelligent Techniques in Industry Lakhmi C. Jain,R.P. Johnson,Yoshiyasu Takefuji,Lofti A. Zadeh,1998-09-28 The successful development and deployment of expert system tools spurred the initial momentum in

developing and using intelligent techniques in industry The brittleness of expert systems and the enormous effort involved in the development and maintenance of knowledge bases prompted researchers to seek friendlier approaches Neural networks fuzzy logic and evolutionary computing tools added a new dimension to the quest for more intelligent tools to supplement the capabilities of expert systems In one volume Knowledge Based Intelligent Techniques in Industry comprehensively brings together the more important developments in the use of intelligent techniques in solving industrial problems The book's primary readership includes electrical engineers in industry as well as researchers working in computational intelligence research labs outlining state of the art techniques and cost effective solutions Knowledge Based Intelligent Techniques in Industry singularly reflects the increasing study of computational intelligence techniques for designing and monitoring complex less predictable electrical or mechanical systems

Multidisciplinary Scheduling: Theory and Applications

Graham Kendall, 2005-04-15 The scheduling research field has been active and expanding for over forty years In that time the field has attracted a wealth of international interest from a variety of academic disciplines This field has been a truly interdisciplinary research area with significant scientific advances have come from the disciplines of Information Technology and Computer Science Mathematics and Operations Research Manufacturing Management Business Engineering Psychology and Statistics Nevertheless after forty years of research scheduling and IT systems have only scratched the surface of the benefits that can be realized from this field MULTIDISCIPLINARY SCHEDULING Theory and Applications is a volume of nineteen reviewed papers that were selected from the sixty seven papers presented during the First Multidisciplinary International Conference of Scheduling Theory and Applications MISTA This is the initial volume of MISTA the primary forum on interdisciplinary research on scheduling Each paper in the volume has been rigorously reviewed and carefully copyedited to ensure the volume's readability The book contains leading edge papers on the fundamentals of scheduling multi criteria objective scheduling personnel scheduling scheduling in space scheduling the Internet machine scheduling bin packing educational timetabling sports scheduling transport scheduling aircraft scheduling and heuristic and meta heuristic scheduling The MISTA volume aims to help set the agenda for interdisciplinary scheduling research and to help the community carryout a long term interdisciplinary research program aimed at developing visionary approaches to the scheduling problems and scheduling related problems of today and tomorrow that are vital to the smooth and efficient running of industry commerce and the service sector The book will be of interest to all who need to know the state of the art in scheduling whether they are experienced or new to the area

European Symposium on Computer Aided Process

Engineering - 11 R. Gani, S.B. Jørgensen, 2001-04-30 This book contains papers presented at the 11th Symposium of Computer Aided Process Engineering ESCAPE 11 held in Kolding Denmark from May 27 30 2001 The objective of ESCAPE 11 is to highlight the use of computers and information technology tools that is the traditional CAPE topics as well as the new CAPE topics of current and future interests The main theme for ESCAPE 11 is process and tools integration with emphasis on

hybrid processing cleaner and efficient technologies process integration computer aided systems for modelling design synthesis control tools integration and industrial case studies application of integrated strategies The papers are arranged in terms of the following themes computer aided control operations computer aided manufacturing process and tools integration and new frontiers in CAPE A total of 188 papers consisting of 5 keynote and 183 contributed papers are included in this book

Shop Floor Control - A Systems Perspective Eric Scherer,2012-12-06 Shop floor control and namely the problem of job shop scheduling have been fields of research for a long time However until now no comprehensive framework on the various aspects exists This book will provide a systems perspective towards shop floor control by stressing its sociotechnical and cybernetical nature It focuses on the behavioral aspects of control activities and sees the shop floor as the center of value adding manufacturing activities within an enterprise The book enables the reader to understand the interaction of organization information technology and human resources This eventually allows to achieve holistic and agile solutions and facilitates profound organizational change The book will therefore provide a welcome addition to several standard textbooks on the issue

Beyond Manufacturing Resource Planning (MRP II) Andreas Drexel,Alf Kimms,2013-11-11 The logic of Manufacturing Resource Planning MRP II is implemented in most commercial production planning software tools and is commonly accepted by practitioners However these people are not satisfied with production planning and complain about long lead times high work in process and backlogging As many researchers have pointed out the reason for these shortcomings is inherent to the methods that are used The research community is thus eager to find more sophisticated approaches This book is an attempt to compile some state of the art work in the field of production planning research It includes material that somehow dominates the existing MRP II concept 15 articles written by 36 authors from 10 countries cover many aspects related to MRP II All papers went through a single blind refereeing process before they were selected for being published in this book When we received papers for this issue we discovered that MRP II is a topic about which not only management scientists show interest As the list of authors proves industrial engineers computer scientists and operations researchers from academia as well as practitioners have contributed to this book This we hope makes the book of value for a broad audience We thank all authors who submitted papers And we are indebted to Dr Werner Muller from Springer for his support in this book project

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 Artificial Intelligence in the Petroleum Industry Bertrand Braunschweig, Ron Day, 1995 Algorithms and Architectures for Real-Time Control 1991 P.J.

Fleming, D.I. Jones, 2014-07-22 Computer scientists have long appreciated that the relationship between algorithms and architecture is crucial Broadly speaking the more specialized the architecture is to a particular algorithm then the more efficient will be the computation The penalty is that the architecture will become useless for computing anything other than that algorithm This message holds for the algorithms used in real time automatic control as much as any other field These Proceedings will provide researchers in this field with a useful up to date reference source of recent developments

Artificial Intelligence And Information - Proceedings Of The 6th International Conference Ivan

Plander, 1994-08-04 These proceedings comprise about 50 contributions from experts worldwide The major themes covered include knowledge based and expert systems cognitive modeling neural networks and AI image processing and computational geometry and parallel distributed and decentralised architecture for AI and robotics *Intelligent Agent Technology: Systems, Methodologies And Tools - Proceedings Of The 1st Asia-Pacific Conference On Intelligent Agent Technology (Iat '99)* Jiming Liu, Ning Zhong, 1999-11-05 This book is a collection of high quality technical papers contributed by active researchers and leading practitioners in intelligent agent technology It offers a closer look at the state of the art in the development of intelligent agents and examines in depth the underlying logical cognitive physical and biological foundations as well as the performance characteristics of various approaches in intelligent agent technology It will stimulate the development of new models new methodologies and new tools for building a variety of embodiments of agent based systems **Advances in Artificial Intelligence - IBERAMIA 2008** Hector Geffner, Rui Prada, Isabel Machado

Alexandre, Nuno David, 2008-10-01 IBERAMIA is the international conference series of the Ibero American Artificial Intelligence community that has been meeting every two years since the 1988 meeting in Barcelona The conference is supported by the main Ibero American societies of AI and provides researchers from Portugal Spain and Latin America the opportunity to meet with AI researchers from all over the world Since 1998 IBERAMIA has been a widely recognized international conference with its papers written and presented in English and its proceedings published by Springer in the LNAI series

This volume contains the papers accepted for presentation at Iberamia 2008 held in Lisbon Portugal in October 2008 For this conference 147 papers were submitted for the main track and 46 papers were accepted Each submitted paper was reviewed by three members of the Program Committee PC coordinated by an Area Chair In certain cases extra reviewers were recruited to write additional reviews The list of Area Chairs PC members and reviewers can be found on the pages that follow The authors of the submitted papers represent 14 countries with topics covering the whole spectrum of themes in AI robotics and multiagent systems knowledge representation and constraints machine learning and planning natural language processing and AI applications The program for Iberamia 2008 also included three invited speakers Christian Lemaitre LANIA Mexico R Michael Young NCSU USA and Miguel Dias Microsoft LDMC Lisbon as well as several workshops

The Enigmatic Realm of **Artificial Intelligence In Reactive Scheduling**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Artificial Intelligence In Reactive Scheduling** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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