

Multi Machine Scheduling An Agent Based Approach

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Industrial Applications of Holonic and Multi-Agent Systems - Vladimír Mařík 2013-08-21

This book constitutes the refereed proceedings of the 6th International Conference on Industrial Applications of Holonic and Multi-Agent Systems, HoloMAS 2013, held in Prague, Czech Republic, in August 2013, in conjunction with DEXA 2013. The 25 revised full papers presented together with two invited talks were carefully reviewed and selected from 37 submissions. The papers are organized in the following topical sections: MAS in automation and manufacturing; design, simulation and validation; MAS in transportation systems; industrial applications; and new trends.

Recent Advances in Intelligent Manufacturing - Shilong Wang 2018-09-04

The three-volume set CCIS 923, CCIS 924, and CCIS 925 constitutes the thoroughly refereed proceedings of the First International Conference on Intelligent Manufacturing and Internet of Things, and of the 5th International Conference on Intelligent Computing for Sustainable Energy and Environment, ICSEE 2018, held in Chongqing, China, in September 2018. The 135 revised full papers presented were carefully reviewed and selected from over 385 submissions. The papers of this volume are organized in topical sections on: digital manufacturing; industrial product design; logistics, production and operation management; manufacturing material; manufacturing optimization;

manufacturing process; mechanical transmission system; robotics.

Multiagent System Technologies - Jan Ole Berndt 2017-08-11

This book constitutes the proceedings of the 15th German Conference on Multiagent System Technologies, MATES 2017, held in Leipzig, Germany, in August 2017. The 17 full papers presented in this volume were carefully reviewed and selected from 24 submissions for inclusion in the proceedings. Over these 15 years, the MATES conference series has been aiming at the promotion of and the cross-fertilization between theory and application of intelligent agents and multi-agent systems.

Advanced Approaches to Intelligent Information and Database Systems - Janusz Sobecki 2014-07-08

This book consists of 35 chapters presenting different theoretical and practical aspects of Intelligent Information and Database Systems. Nowadays both Intelligent and Database Systems are applied in most of the areas of human activities which necessitates further research in these areas. In this book various interesting issues related to the intelligent information models and methods as well as their advanced applications, database systems applications, data models and their analysis and digital multimedia methods and applications are presented and discussed both from the practical and theoretical points of view. The book is organized in four parts devoted to intelligent systems models and methods, intelligent systems advanced applications, database systems methods and applications and multimedia systems methods and

applications. The book will be interesting for practitioners and researchers, especially graduate and PhD students of information technology and computer science, as well more experienced academics and specialists interested in developing and verification of intelligent information, database and multimedia systems models, methods and applications. The readers of this volume are enabled to find many inspiring ideas and motivating practical examples that will help them in the current and future work.

Recent Findings in Intelligent Computing Techniques - Pankaj Kumar Sa 2018-11-03

This three volume book contains the Proceedings of 5th International Conference on Advanced Computing, Networking and Informatics (ICACNI 2017). The book focuses on the recent advancement of the broad areas of advanced computing, networking and informatics. It also includes novel approaches devised by researchers from across the globe. This book brings together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

Industry 4.0 and Advanced Manufacturing - Amaresh Chakrabarti 2022-08-24

This book presents selected papers from the 2nd International Conference on Industry 4.0 and Advanced Manufacturing held at the Indian Institute of Science, Bangalore and includes deliberations from stakeholders in manufacturing and Industry 4.0 on the nature, needs, challenges, opportunities, problems, and solutions in these transformational areas. Special emphasis is placed on exploring avenues for creating a vision of, and enablers for, sustainable, affordable, and human-centric Industry 4.0. The book showcases cutting edge practice, research, and educational innovation in this crucial and rapidly evolving area. This book will be useful to researchers in academia and industry,

and will also be useful to policymakers involved in creating ecosystems for implementation of Industry 4.0.

Process Planning and Scheduling for Distributed Manufacturing - Lihui Wang 2007-05-14

This is the first book to focus on emerging technologies for distributed intelligent decision-making in process planning and dynamic scheduling. It has two sections: a review of several key areas of research, and an in-depth treatment of particular techniques. Each chapter addresses a specific problem domain and offers practical solutions to solve it. The book provides a better understanding of the present state and future trends of research in this area.

Population-Based Approaches to the Resource-Constrained and Discrete-Continuous Scheduling - Ewa Ratajczak-Ropel 2017-08-21

This book addresses two of the most difficult and computationally intractable classes of problems: discrete resource constrained scheduling, and discrete-continuous scheduling. The first part of the book discusses problems belonging to the first class, while the second part deals with problems belonging to the second class. Both parts together offer valuable insights into the possibility of implementing modern techniques and tools with a view to obtaining high-quality solutions to practical and, at the same time, computationally difficult problems. It offers a valuable source of information for practitioners dealing with the real-world scheduling problems in industry, management and administration. The authors have been working on the respective problems for the last decade, gaining scientific recognition through publications and active participation in the international scientific conferences, and their results are obtained using population-based methods. Dr E. Ratajczk-Ropel explores multiple agent and A-Team concepts, while Dr A. Skakovski focuses on evolutionary algorithms with a particular focus on the population learning paradigm.

Multi-Agent Systems for Concurrent Intelligent Design and Manufacturing - Weiming Shen 2019-09-17

Agent Technology, or Agent-Based Approaches, is a new paradigm for developing software applications. It has been hailed as 'the next

significant breakthrough in software development', and 'the new revolution in software' after object technology or object-oriented programming. In this context, an agent is a computer system which is capable of act

Dynamics in Logistics - Michael Freitag 2022

Since 2007, the biennial International Conferences on Dynamics in Logistics (LDIC) offers researchers and practitioners from logistics, operations research, production, industrial and electrical engineering as well as from computer science an opportunity to meet and to discuss the latest developments in this particular research domain. From February 23th to 25th 2022 for the eighth time, LDIC 2022 is held in Bremen, Germany. Similar to its seven predecessors, the Bremen Research Cluster for Dynamics in Logistics (LogDynamics) organizes this conference. The spectrum of topics reaches from the dynamic modeling, planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber-physical production and logistics systems. LDIC 2022 provides a forum for the discussion of advances in that matter. The conference program consists of keynote speeches and research papers selected by a severe double-blind reviewing process. Within these proceedings all the papers are published. By this, the proceedings give an interdisciplinary outline on the state of the art of dynamics in logistics as well as identify challenges and solutions for logistics today and tomorrow.

Agent-Based Approaches in Economic and Social Complex Systems V - Takao Terano 2009-04-14

Agent-based modeling/simulation is an emergent approach to the analysis of social and economic systems. It provides a bottom-up experimental method to be applied to social sciences such as economics, management, sociology, and politics as well as some engineering fields dealing with social activities. This book includes selected papers presented at the Fifth International Workshop on Agent-Based Approaches in Economic and Social Complex Systems held in Tokyo in 2007. It contains two invited papers given as the plenary and invited talks in the workshop and 21 papers presented in the six regular

sessions: Organization and Management; Fundamentals of Agent-Based and Evolutionary Approaches; Production, Services and Urban Systems; Agent-Based Approaches to Social Systems; and Market and Economics I and II. The research presented here shows the state of the art in this rapidly growing field.

Multi-Agent Systems for Healthcare Simulation and Modeling: Applications for System Improvement - Paranjape, Raman 2009-08-31

"This book provides theoretical frameworks and the latest empirical research findings used by medical professionals in the implementation of multi-agent systems"--Provided by publisher.

Technological Developments in Education and Automation - Magued Iskander 2010-01-30

Technological Developments in Education and Automation includes set of rigorously reviewed world-class manuscripts dealing with the increasing role of technology in daily lives including education and industrial automation Technological Developments in Education and Automation contains papers presented at the International Conference on Industrial Electronics, Technology & Automation and the International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering **Planning and Scheduling in Manufacturing and Services** - Michael Pinedo 2005

This book focuses on planning and scheduling applications. Planning and scheduling are forms of decision-making that play an important role in most manufacturing and services industries. The planning and scheduling functions in a company typically use analytical techniques and heuristic methods to allocate its limited resources to the activities that have to be done. The application areas considered in this book are divided into manufacturing applications and services applications. The book covers five areas in manufacturing: project scheduling, job shop scheduling, scheduling of flexible assembly systems, economic lot scheduling, and planning and scheduling in supply chains. It covers four areas in services: reservations and timetabling, tournament scheduling,

planning and scheduling in transportation, and workforce scheduling. At the end of each chapter, a case study or a system implementation is described in detail. Numerous examples and exercises throughout the book illustrate the material presented. The fundamentals concerning the methodologies used in the application chapters are covered in the appendices. The book comes with a CD-ROM that contains various sets of powerpoint slides. The CD also contains several planning and scheduling systems that have been developed in academia as well as generic optimization software that has been developed in industry. This book is suitable for more advanced students in industrial engineering and operations research as well as graduate students in business. Michael Pinedo is the Julius Schlesinger Professor of Operations Management in the Stern School of Business at New York University. His research interests lie in the theoretical and applied aspects of planning and scheduling. He has written numerous papers on the theory of deterministic and stochastic scheduling and has also consulted extensively in industry. He has been actively involved in the development of several large industrial planning and scheduling systems.

Trends in Practical Applications of Agents and Multiagent

Systems - Juan Manuel Corchado Rodríguez 2011-03-12

PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribune to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. This volume presents the papers that have been accepted for the 2011 in the workshops: Workshop on Agents for Ambient Assisted Living, Workshop on Agent-Based Solutions for Manufacturing and Supply Chain, Workshop on Agents and Multi-agent systems for Enterprise Integration.

Scheduling - Michael L. Pinedo 2022-12-13

The sixth edition provides expanded Discussion and Comments and References sections at the end of each chapter, creating a spotlight on practical applications of the theory presented in that chapter. New topics include rules for stochastic parallel machine scheduling and for stochastic online scheduling, models of flow shops with reentry, fixed parameter tractability, and new designs and implementations of scheduling systems. The main structure of the book as per previous edition consists of three parts. The first part focuses on deterministic scheduling and the related combinatorial problems. The second part covers probabilistic scheduling models; in this part it is assumed that processing times and other problem data are random and not known in advance. The third part deals with scheduling in practice; it covers heuristics that are popular with practitioners and discusses system design and implementation issues. All three parts of this new edition have been revamped and streamlined and the references have been made up-to-date. Theoreticians and practitioners alike will find this book of interest. Graduate students in operations management, operations research, industrial engineering, and computer science will find the book an accessible and invaluable resource. Scheduling - Theory, Algorithms, and Systems will serve as an essential reference for professionals working on scheduling problems in manufacturing, services, and other environments. Michael L. Pinedo is the Julius Schlesinger Professor of Operations Management in the Stern School of Business at New York University.

Proceedings - American Association for Artificial Intelligence 1998

AAAI proceedings describe innovative concepts, techniques, perspectives, and observations that present promising research directions in artificial intelligence.

Service Orientation in Holonic and Multi-Agent Manufacturing

Theodor Borangiu 2018-12-12

This book gathers the peer-reviewed papers presented at the 8th edition of the International Workshop "Service Orientation in Holonic and Multi-Agent Manufacturing - SOHOMA'18" held at the University of Bergamo, Italy on June 11-12, 2018. The objective of the SOHOMA annual

workshops is to foster innovation in smart and sustainable manufacturing and logistics systems by promoting new concepts, methods and solutions that use service orientation of agent-based control technologies with distributed intelligence. Reflecting the theme of SOHOMA'18: "Digital transformation of manufacturing with agent-based control and service orientation of Internet-scale platforms", the research included focuses on how the digital transformation, as advocated by the "Industry 4.0", "Industrial Internet of Things", "Cyber-Physical Production Systems" and "Cloud Manufacturing" frameworks, improves the efficiency, agility and sustainability of manufacturing processes, products, and services, and how it relates to the interaction between the physical and informational worlds, which is implemented in the virtualization of products, processes and resources managed as services.

Agent-Based Evolutionary Search - Ruhul A. Sarker 2010-07-12

Agent based evolutionary search is an emerging paradigm in computational intelligence offering the potential to conceptualize and solve a variety of complex problems such as currency trading, production planning, disaster response management, business process management etc. There has been a significant growth in the number of publications related to the development and applications of agent based systems in recent years which has prompted special issues of journals and dedicated sessions in premier conferences. The notion of an agent with its ability to sense, learn and act autonomously allows the development of a plethora of efficient algorithms to deal with complex problems. This notion of an agent differs significantly from a restrictive definition of a solution in an evolutionary algorithm and opens up the possibility to model and capture emergent behavior of complex systems through a natural age-oriented decomposition of the problem space. While this flexibility of representation offered by agent based systems is widely acknowledged, they need to be designed for specific purposes capturing the right level of details and description. This edited volume is aimed to provide the readers with a brief background of agent based evolutionary search, recent developments and studies dealing with various levels of information abstraction and applications of agent based evolutionary systems. There

are 12 peer reviewed chapters in this book authored by distinguished researchers who have shared their experience and findings spanning across a wide range of applications.

Intelligent Techniques in Engineering Management - Cengiz Kahraman 2015-05-05

This book presents recently developed intelligent techniques with applications and theory in the area of engineering management. The involved applications of intelligent techniques such as neural networks, fuzzy sets, Tabu search, genetic algorithms, etc. will be useful for engineering managers, postgraduate students, researchers, and lecturers. The book has been written considering the contents of a classical engineering management book but intelligent techniques are used for handling the engineering management problem areas. This comprehensive characteristics of the book makes it an excellent reference for the solution of complex problems of engineering management. The authors of the chapters are well-known researchers with their previous works in the area of engineering management.

EVOLVE- A Bridge between Probability, Set Oriented Numerics and Evolutionary Computation - Emilia Tantar 2012-09-14

The aim of this book is to provide a strong theoretical support for understanding and analyzing the behavior of evolutionary algorithms, as well as for creating a bridge between probability, set-oriented numerics and evolutionary computation. The volume encloses a collection of contributions that were presented at the EVOLVE 2011 international workshop, held in Luxembourg, May 25-27, 2011, coming from invited speakers and also from selected regular submissions. The aim of EVOLVE is to unify the perspectives offered by probability, set oriented numerics and evolutionary computation. EVOLVE focuses on challenging aspects that arise at the passage from theory to new paradigms and practice, elaborating on the foundations of evolutionary algorithms and theory-inspired methods merged with cutting-edge techniques that ensure performance guarantee factors. EVOLVE is also intended to foster a growing interest for robust and efficient methods with a sound theoretical background. The chapters enclose challenging theoretical

findings, concrete optimization problems as well as new perspectives. By gathering contributions from researchers with different backgrounds, the book is expected to set the basis for a unified view and vocabulary where theoretical advancements may echo in different domains.

Holonic and Multi-Agent Systems for Manufacturing - Vladimir Marik 2007-08-24

This volume constitutes the refereed proceedings of the Third International Conference on Industrial Applications of Holonic and Multi-Agent Systems held in September 2007. The 39 full papers were selected from among 63 submissions. They are organized into topical sections covering theoretical and methodological issues, algorithms and technologies, implementation and validation, applications, and supply chain management.

Intelligent Production Machines and Systems - First I*PROMS Virtual Conference - Duc T. Pham 2005-12-09

The 2005 Virtual International Conference on IPROMS took place on the Internet between 4 and 15 July 2005. IPROMS 2005 was an outstanding success. During the Conference, some 4168 registered delegates and guests from 71 countries participated in the Conference, making it a truly global phenomenon. This book contains the Proceedings of IPROMS 2005. The 107 peer-reviewed technical papers presented at the Conference have been grouped into twelve sections, the last three featuring contributions selected for IPROMS 2005 by Special Sessions chairmen: - Collaborative and Responsive Manufacturing Systems - Concurrent Engineering - E-manufacturing, E-business and Virtual Enterprises - Intelligent Automation Systems - Intelligent Decision Support Systems - Intelligent Design Systems - Intelligent Planning and Scheduling Systems - Mechatronics - Reconfigurable Manufacturing Systems - Tangible Acoustic Interfaces (Tai Chi) - Innovative Production Machines and Systems - Intelligent and Competitive Manufacturing Engineering

Implementing Industry 4.0 - Carlos Toro 2021-04-03

This book relates research being implemented in three main research areas: secure connectivity and intelligent systems, real-time analytics

and manufacturing knowledge and virtual manufacturing. Manufacturing SMEs and MNCs want to see how Industry 4.0 is implemented. On the other hand, groundbreaking research on this topic is constantly growing. For the aforesaid reason, the Singapore Agency for Science, Technology and Research (A*STAR), has created the model factory initiative. In the model factory, manufacturers, technology providers and the broader industry can (i) learn how I4.0 technologies are implemented on real-world manufacturing use-cases, (ii) test process improvements enabled by such technologies at the model factory facility, without disrupting their own operations, (iii) co-develop technology solutions and (iv) support the adoption of solutions at their everyday industrial operation. The book constitutes a clear base ground not only for inspiration of researchers, but also for companies who will want to adopt smart manufacturing approaches coming from Industry 4.0 in their pathway to digitization.

Manufacturing Systems and Technologies for the New Frontier - Fumihiko Kimura 2008-05-19

Collected here are 112 papers concerned with new directions in manufacturing systems, given at the 41st CIRP Conference on Manufacturing Systems. The high-quality material includes reports of work from both scientific and engineering standpoints.

Proceedings of the 22nd International Conference on Industrial Engineering and Engineering Management 2015 - Ershi Qi 2016-01-29
Being the premier forum for the presentation of new advances and research results in the fields of Industrial Engineering, IEEM 2015 aims to provide a high-level international forum for experts, scholars and entrepreneurs at home and abroad to present the recent advances, new techniques and applications face and face, to promote discussion and interaction among academics, researchers and professionals to promote the developments and applications of the related theories and technologies in universities and enterprises, and to establish business or research relations to find global partners for future collaboration in the field of Industrial Engineering. All the goals of the international conference are to fulfill the mission of the series conference which is to

review, exchange, summarize and promote the latest achievements in the field of industrial engineering and engineering management over the past year, and to propose prospects and vision for the further development. This volume is the first of the two proceedings volumes from this conference.

Multi-Agent-Based Production Planning and Control - Jie Zhang
2017-05-09

At the crossroads of artificial intelligence, manufacturing engineering, operational research and industrial engineering and management, multi-agent based production planning and control is an intelligent and industrially crucial technology with increasing importance. This book provides a complete overview of multi-agent based methods for today's competitive manufacturing environment, including the Job Shop Manufacturing and Re-entrant Manufacturing processes. In addition to the basic control and scheduling systems, the author also highlights advance research in numerical optimization methods and wireless sensor networks and their impact on intelligent production planning and control system operation. Enables students, researchers and engineers to understand the fundamentals and theories of multi-agent based production planning and control Written by an author with more than 20 years' experience in studying and formulating a complete theoretical system in production planning technologies Fully illustrated throughout, the methods for production planning, scheduling and controlling are presented using experiments, numerical simulations and theoretical analysis Comprehensive and concise, Multi-Agent Based Production Planning and Control is aimed at the practicing engineer and graduate student in industrial engineering, operational research, and mechanical engineering. It is also a handy guide for advanced students in artificial intelligence and computer engineering.

Information Sharing in Supply Chains - Jason Shiu Kong Lau 2007

**Intelligent Systems for Automated Learning and Adaptation:
Emerging Trends and Applications** - Chiong, Raymond 2009-09-30

"This volume offers intriguing applications, reviews and additions to the

methodology of intelligent computing, presenting the emerging trends of state-of-the-art intelligent systems and their practical applications"--
Provided by publisher.

Agent Based Approach For Supply Chain Management - Dr. M S Uppin 2018-05-25

The book is concerned with the application of basic concepts of Agent-based technology for the flow of information between various components of the supply chain formed for a manufacturing organization with following objectives: • Identifying issues related to sharing information as the most critical factor in supply chain activities • Addressing problems associated with sharing information both within and between different organizations • Sharing effective information by formulating an agent-based framework for supply chain management activities • To enhance the effectiveness of Supply chain management activities

Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics - Theodor Borangiu 2014-01-30

This volume gathers the peer reviewed papers which were presented at the third edition of the International Workshop "Service Orientation in Holonic and Multi-agent Manufacturing and Robotics - SOHOMA'13" organized on June 20-22, 2013 by the Centre of Research in Computer Integrated Manufacturing and Robotics - CIMR Bucharest, and hosted by the University of Valenciennes, France. The book is structured in five parts, each one covering a specific research domain which represents a trend for modern manufacturing control: Distributed Intelligence for Sustainable Manufacturing, Holonic and Multi-Agent Technologies for Manufacturing Planning and Control; Service Orientation in Manufacturing Management and Control, Intelligent Products and Product-driven Automation and Robotics for Manufacturing and Services. These five evolution lines have in common concepts related to service orientation in a distributed planning and control agent-based industrial environment; today it is generally recognized that the Service Oriented Enterprise Architecture paradigm has been looked upon as a suitable and effective approach for industrial automation and management of

manufacturing enterprises.

Advances in Concurrent Engineering - Biren Prasad 1996-08-22

Planning and Scheduling in Manufacturing and Services - Michael L. Pinedo 2009-10-03

Pinedo is a major figure in the scheduling area (well versed in both stochastics and combinatorics), and knows both the academic and practitioner side of the discipline. This book includes the integration of case studies into the text. It will appeal to engineering and business students interested in operations research.

Handbook of Metaheuristics - Fred W. Glover 2003-01-31

This book provides both the research and practitioner communities with a comprehensive coverage of the metaheuristic methodologies that have proven to be successful in a wide variety of real-world problem settings. Moreover, it is these metaheuristic strategies that hold particular promise for success in the future. The various chapters serve as stand alone presentations giving both the necessary background underpinnings as well as practical guides for implementation.

Agents and Multi-Agent Systems: Technologies and Applications 2022 - Gordan Jezic 2022-08-22

The book highlights new trends and challenges in research on agents and the new digital and knowledge economy. It includes papers on business process management, agent-based modeling and simulation and anthropic-oriented computing that were originally presented at the 16th International KES Conference on Agents and Multi-Agent Systems: Technologies and Applications (KES-AMSTA 2022), held at Rhodes, Greece in June 20-22, 2022. The respective papers cover topics such as software agents, multi-agent systems, agent modeling, mobile and cloud computing, big data analysis, business intelligence, artificial intelligence, social systems, computer embedded systems and nature inspired manufacturing, all of which contribute to the modern digital economy.

Transactions on Computational Collective Intelligence XXVIII -

Ngoc Thanh Nguyen 2018-05-01

These transactions publish research in computer-based methods of

computational collective intelligence (CCI) and their applications in a wide range of fields such as the semantic Web, social networks, and multi-agent systems. TCCI strives to cover new methodological, theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies, such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., aims to support human and other collective intelligence and to create new forms of CCI in natural and/or artificial systems. This twenty-eight issue is a special issue with 11 selected papers from the International Conference on Agents and Artificial Intelligence, ICAART 2016 and 2017 editions.

Adaptive Control of Bio-Inspired Manufacturing Systems - Dunbing Tang 2020-02-27

This book introduces state-of-the-art models and methods based on the neuroendocrine-immune-inspired approaches in the field of manufacturing control systems. It develops various bio-inspired intelligent approaches for multiple applications in order to efficiently generate production plans and control solutions and agilely deal with the frequent unexpected disturbances at the shop floor level. It also provides an introduction to bio-inspired manufacturing systems with intelligent control structures and the latest technologies. Further, the book describes recent advances in the bio-inspired methodology for a high-level adaptability in manufacturing systems, including the bio-inspired control architecture and the implementation of intelligent and adaptive control approaches based on neuroendocrine-immune mechanisms and hormone-regulation principles. It offers a valuable resource for graduate students, researchers and engineers in the fields of production management, manufacturing system control and related areas. /div

Innovative Developments in Design and Manufacturing - J. N.

Reddy 2009-09-22

Essential reading on the latest advances in virtual prototyping and rapid manufacturing. Includes 110 peer reviewed papers covering: 1.

Biomanufacturing, 2. CAD and 3D data acquisition technologies, 3. Materials, 4. Rapid tooling and manufacturing, 5. Advanced rapid prototyping technologies and nanofabrication, 6. Virtual environments and

Customer-Oriented Global Supply Chains: Concepts for Effective Management - Eyob, Ephrem 2012-03-31

"This book provides insights and supports executives, middle managers and practitioners concerned with the management of supply chain with expertise, knowledge, information and organizational management development in different types of industries"--Provided by publisher.

Artificial Intelligence Perspectives in Intelligent Systems - Radek Silhavy 2016-04-26

This volume is based on the research papers presented in the 5th Computer Science On-line Conference. The volume *Artificial Intelligence Perspectives in Intelligent Systems* presents modern trends and methods to real-world problems, and in particular, exploratory research that describes novel approaches in the field of artificial intelligence. New algorithms in a variety of fields are also presented. The Computer Science On-line Conference (CSOC 2016) is intended to provide an international forum for discussions on the latest research results in all areas related to Computer Science. The addressed topics are the theoretical aspects and applications of Computer Science, Artificial Intelligences, Cybernetics, Automation Control Theory and Software Engineering.