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KEY=SCHEDULING - LETICIA HULL

MULTIDISCIPLINARY SCHEDULING: THEORY AND APPLICATIONS

1ST INTERNATIONAL CONFERENCE, MISTA '03 NOTTINGHAM, UK, 13-15 AUGUST 2003. SELECTED PAPERS

Springer Science & Business Media *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 inter-disciplinary 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.*

SYMPOSIUM ON THE THEORY OF SCHEDULING AND ITS APPLICATIONS

Springer Science & Business Media *The theory of scheduling is receiving increased emphasis in research and practice for at least three good reasons. F~~t, the management of large scale projects resolves itself, in the final analysis, into problems of scheduling interacting activities subject to limited resources. Second, a great deal of "fat" that used to exist in the past in production, distribution, and service systems is eliminated, thanks to tighter managerial controls in information systems, in financial management, in logistics, and in many other facets of industrial enterprises and military installations. Tighter scheduling methods are therefore called for. Thi~d, the study of scheduling problems involves the study of combina torial problems and optimization over discrete spaces which represent a radical, and interesting, departure from classical mathematics. This area of study has attracted a good number of distinguished researchers, engineers as well as mathematicians. There is a serious attempt to apply known number theory, and perhaps develop new theory, that would cope with the new problems. The computer enters the picture in novel and ingenious ways, which has not been possible before; etc. To those workinQ in the area, whether in theory or in practice, progress proceeds at an exhilarating pace, with new mathematical structures and computational approaches being continuously introduced to model and solve the problems in novel, and oftentimes ingenious ways.*

GRAPH THEORY AND ITS APPLICATIONS, SECOND EDITION

CRC Press *Already an international bestseller, with the release of this greatly enhanced second edition, Graph Theory and Its Applications is now an even better choice as a textbook for a variety of courses -- a textbook that will continue to serve your students as a reference for years to come. The superior explanations, broad coverage, and abundance of illustrations and exercises that positioned*

this as the premier graph theory text remain, but are now augmented by a broad range of improvements. Nearly 200 pages have been added for this edition, including nine new sections and hundreds of new exercises, mostly non-routine. What else is new? New chapters on measurement and analytic graph theory Supplementary exercises in each chapter - ideal for reinforcing, reviewing, and testing. Solutions and hints, often illustrated with figures, to selected exercises - nearly 50 pages worth Reorganization and extensive revisions in more than half of the existing chapters for smoother flow of the exposition Foreshadowing - the first three chapters now preview a number of concepts, mostly via the exercises, to pique the interest of reader Gross and Yellen take a comprehensive approach to graph theory that integrates careful exposition of classical developments with emerging methods, models, and practical needs. Their unparalleled treatment provides a text ideal for a two-semester course and a variety of one-semester classes, from an introductory one-semester course to courses slanted toward classical graph theory, operations research, data structures and algorithms, or algebra and topology.

APPLICATION OF SCHEDULING THEORY TO SPACECRAFT CONSTELLATIONS

Universal-Publishers In this thesis we advance the state-of the practice in the Space Mission Operations domain by leveraging single spacecraft technologies along with classical scheduling frameworks and notation to create a scheduler for a constellation of spacecraft. We define a scheduling product that is focused on the problem of scheduling networked groups of spacecraft, called constellations. Within this thesis we show that the constellation schedule problem is a very complex problem, and the application of heuristics is one approach that allow us to schedule successfully. Our first objective, comprising chapters 1, 2, and 3, is to describe the spacecraft constellation domain and the objectives of the thesis. This background provides a foundation for understanding the constellation scheduling problem domain. Our second objective, comprising chapters 4, 5 and 6, is to provide a representation and description of the components of a constellation system, and a formal definition of the constellation schedule problem via existing formal scheduling frameworks and notation. Our third objective, comprising chapter 7, is to use these frameworks to allow us to deduce the complexity of the problem. Our fourth objective, comprising chapter 8, is to present techniques that allow us to leverage single spacecraft scheduling techniques to construct a constellation scheduler. Our final objective, comprising chapter 9, is to propose a scheduler architecture that satisfies a typical constellation scheduling problem.

APPLICATION AND THEORY OF PETRI NETS 1993

14TH INTERNATIONAL CONFERENCE, CHICAGO, ILLINOIS, USA, JUNE 21-25, 1993. PROCEEDINGS

Springer Science & Business Media This volume contains the proceedings of the 14th International Conference onApplication and Theory of Petri Nets. The aim of the Petri net conferences is to create a forum for discussing progress in the application and theory of Petri nets. Typically, the conferences have 150-200 participants, one third of whom come from industry, while the rest are from universities and research institutes. The volume includes three invited papers, "Modeling and enactment of workflow systems" (C.A. Ellis, G.J. Nutt), "Interleaving functional and performance structural analysis of net models" (M. Silva), and "FSPNs: fluid stochastic Petri nets" (K.S. Trivedi, V.G. Kulkarni), together with 26 full papers (selected from 102 submissions) and 6 project papers.

APPLICATION AND THEORY OF PETRI NETS 2002

23RD INTERNATIONAL CONFERENCE, ICATPN 2002, ADELAIDE, AUSTRALIA, JUNE 24-30, 2002. PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 23rd International Conference on Application and Theory of Petri Nets, ICATPN 2002, held in Adelaide, Australia, in June 2002. The 18 regular papers and one tool presentation presented together with six invited paper were carefully reviewed and selected from 45 submissions. All current issues on research and development of Petri nets are addressed, in particular concurrent systems analysis, model validation, business process management, reactive systems, workflow processes, wireless transaction protocols.

GRAPHS THEORY AND APPLICATIONS

WITH EXERCISES AND PROBLEMS

John Wiley & Sons This book provides a pedagogical and comprehensive introduction to graph theory and its applications. It contains all the standard basic material and develops significant topics and applications, such as: colorings and the timetabling problem, matchings and the optimal assignment problem, and Hamiltonian cycles and the traveling salesman problem, to name but a few. Exercises at various levels are given at the end of each chapter, and a final chapter presents a few general problems with hints for solutions, thus providing the reader with the opportunity to test and refine their knowledge on the subject. An appendix outlines the basis of computational complexity theory, in particular the definition of NP-completeness, which is essential for algorithmic applications.

THEORY AND APPLICATIONS OF MODELS OF COMPUTATION

11TH ANNUAL CONFERENCE, TAMC 2014, CHENNAI, INDIA, APRIL 11-13, 2014, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 11th Annual Conference on Theory and Applications of Models of Computation, TAMC 2014, held in Chennai, India, in April 2014. The 27 revised full papers presented were carefully reviewed and selected from 112 submissions. The papers explore the algorithmic foundations, computational methods and computing devices to meet today's and tomorrow's challenges of complexity, scalability and sustainability, with wide-ranging impacts on everything from the design of biological systems to the understanding of economic markets and social networks.

THEORY, METHODOLOGY, TOOLS AND APPLICATIONS FOR MODELING AND SIMULATION OF COMPLEX SYSTEMS

16TH ASIA SIMULATION CONFERENCE AND SCS AUTUMN SIMULATION MULTI-CONFERENCE, ASIASIM/SCS AUTUMNSIM 2016, BEIJING, CHINA, OCTOBER 8-11, 2016, PROCEEDINGS, PART II

Springer This four-volume set (CCIS 643, 644, 645, 646) constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi-Conference, AsiaSim / SCS AutumnSim 2016, held in Beijing, China, in October 2016. The 265 revised full papers presented were carefully reviewed and selected from 651 submissions. The papers in this second volume of the set are organized in topical sections on HMI and robot simulations; modeling and simulation for intelligent manufacturing; military simulation; visualization and virtual reality.

AUTOMATIC DIFFERENTIATION: APPLICATIONS, THEORY, AND IMPLEMENTATIONS

Springer Science & Business Media Covers the state of the art in automatic differentiation theory and practice. Intended for computational scientists and engineers, this book aims to provide insight into effective strategies for using automatic differentiation for design optimization, sensitivity analysis, and uncertainty quantification.

ISSUES IN SOFTWARE RESEARCH, DESIGN, AND APPLICATION: 2011 EDITION

ScholarlyEditions Issues in Software Research, Design, and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Software Research, Design, and Application. The editors have built Issues in Software Research, Design, and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Software Research, Design, and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Software Research, Design, and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

SIMULATION FOR APPLIED GRAPH THEORY USING VISUAL C++

CRC Press The tool for visualization is Microsoft Visual C++. This popular software has the standard C++ combined with the Microsoft Foundation Classes (MFC) libraries for Windows visualization. This book explains how to create a graph interactively, solve problems in graph theory with minimum number of C++ codes, and provide friendly interfaces that makes learning the topics an interesting one. Each topic in the book comes with working Visual C++ codes which can easily be adapted as solutions to various problems in science and engineering.

SCHEDULING

THEORY, ALGORITHMS, AND SYSTEMS

Springer Science & Business Media This new edition of the well established text Scheduling - Theory, Algorithms, and Systems provides an up-to-date coverage of important theoretical models in the scheduling literature as well as significant scheduling problems that occur in the real world. It again includes supplementary material in the form of slide-shows from industry and movies that show 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. The references have been made completely 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. Reviews of third edition: This well-established text covers both the theory and practice of scheduling. The book begins with motivating examples and the penultimate chapter discusses some commercial scheduling systems and examples of their implementations." (Mathematical Reviews, 2009)

FINANCIAL ANALYSIS, PLANNING & FORECASTING

THEORY AND APPLICATION THIRD

World Scientific Publishing Company This book is an introduction-level text that reviews, discusses, and integrates both theoretical and practical corporate analysis and planning. The field can be divided into five parts: (1) Information and Methodology for Financial Analysis; (2) Alternative Finance Theories and Cost of Capital; (3) Capital Budgeting and Leasing Decisions; (4) Corporate Policies and their Interrelationships; (5) Financial Planning and Forecasting. The theories used and discussed in this book can be grouped into the following classical theoretical areas of corporate finance: (1) Pre-M&M Theory, (2) M&M Theory, (3) CAPM, and (4) Option Pricing Theory (OPT). The interrelationships among these theories are carefully analyzed. Real world examples are used to enrich the learning experience; and alternative planning and forecasting models are used to show how the interdisciplinary approach can be used to make meaningful financial-management decisions. In this third edition, we have extensively updated and expanded the topics of financial analysis, planning and forecasting. New chapters were added, and some chapters combined to present a holistic view of the subject and much of the data revised and updated.

RECHARGEABLE SENSOR NETWORKS: TECHNOLOGY, THEORY, AND APPLICATION

INTRODUCING ENERGY HARVESTING TO SENSOR NETWORKS

World Scientific The harvesting of energy from ambient energy sources to power electronic devices has been recognized as a promising solution to the issue of powering the ever-growing number of mobile devices around us. Key technologies in the rapidly growing field of energy harvesting focus on developing solutions to capture ambient energy surrounding the mobile devices and convert it into usable electrical energy for the purpose of recharging said devices. Achieving a sustainable network lifetime via battery-aware designs brings forth a new frontier for energy optimization techniques. These techniques had, in their early stages, resulted in the development of low-power hardware designs. Today, they have evolved into power-aware designs and even battery-aware designs. This book covers recent results in the field of rechargeable sensor networks, including technologies and protocol designs to enable harvesting energy from alternative energy sources such as vibrations, temperature variations, wind, solar, and biochemical energy and passive human power. Contents:Wind Energy Harvesting for Recharging Wireless Sensor Nodes: Brief Review and a Case Study (Yen Kheng Tan, Dibin Zhu and Steve Beeby)Rechargeable Sensor Networks with Magnetic Resonant Coupling (Liguang Xie, Yi Shi, Y Thomas Hou, Wenjing Lou, Hanif D Sherali and Huaibei Zhou)Cross-Layer Resource Allocation in Energy-Harvesting Sensor Networks (Zhoujia Mao, C Emre Koksal and Ness B Shroff)Energy-Harvesting Technique and Management for Wireless Sensor Networks (Jianhui Zhang and Xiangyang Li)Information Capacity of an AWGN Channel Powered by an Energy-Harvesting Source (R Rajesh, P K Deekshith and Vinod Sharma)Energy Harvesting in Wireless Sensor Networks (Nathalie Mitton and Riaan Wolhuter)Topology Control for Wireless Sensor Networks and Ad Hoc Networks (Sunil Jardosh)An Evolutionary Game Approach for Rechargeable Sensor Networks (Majed Haddad, Eitan Altman, Dieter Fiems and Julien Gaillard)Marine Sediment Energy Harvesting for Sustainable Underwater Sensor Networks (Baikun Li, Lei Wang and Jun-Hong Cui)Wireless Rechargeable Sensor Networks in the Smart Grid (Melike Erol-Kantarci and Hussein T Mouftah)Energy-Harvesting Methods for Medical Devices (Pedro Dinis Gaspar, Virginie Felizardo and Nuno M Garcia) Readership: Graduates, researchers, and professionals studying/dealing with networking, computer engineering, parallel computing, and electrical & electronic engineering. Keywords:Rechargeable Sensor;Energy Harvesting Technology;Renewable Sensor NetworksKey Features:This book provides comprehensive coverage from hardware design, protocol design, to applications. This book provides very recent results. And this book has prominent contributorsWith the increasing deterioration of global warming, energy harvesting technologies as a green source of energy are of great interest to research community. For wireless networks especially wireless sensor networks, the introduction of energy harvesting technologies can address the challenge of energy constraint and obtain perpetual network operation. Although there are lots of existing publications on energy harvesting, most of them are journal and conference papers, which concentrate on specific research problems and do not provide a comprehensive overview and prerequisite preliminaries to understand the energy harvesting technologies. To the best of our knowledge, there are only a few books which are concerned with energy harvesting technologies. One main drawback of these books are that they all elaborate on the hardware design of energy harvesting devices but neglect the impact of hardware design on the performance of overall networks which is also of great significance in practice. For example, the energy management subsystem should be designed to fulfill all the tasks without running out of energy, which is dependent on the available energy of each node and all the tasks of the whole networks. Hence, the algorithm and protocol optimization are as important as hardware design. But this was not elaborated in existing publications and motivates this

book

BROADBAND WIRELESS ACCESS NETWORKS FOR 4G: THEORY, APPLICATION, AND EXPERIMENTATION

THEORY, APPLICATION, AND EXPERIMENTATION

IGI Global *With the increased functionality demand for mobile speed and access in our everyday lives, broadband wireless networks have emerged as the solution in providing high data rate communications systems to meet these growing needs. Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents the latest trends and research on mobile ad hoc networks, vehicular ad hoc networks, and routing algorithms which occur within various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book's practical applications and relevant studies.*

SCHEDULING THEORY. SINGLE-STAGE SYSTEMS

Springer Science & Business Media *Scheduling theory is an important branch of operations research. Problems studied within the framework of that theory have numerous applications in various fields of human activity. As an independent discipline scheduling theory appeared in the middle of the fifties, and has attracted the attention of researchers in many countries. In the Soviet Union, research in this direction has been mainly related to production scheduling, especially to the development of automated systems for production control. In 1975 Nauka ("Science") Publishers, Moscow, issued two books providing systematic descriptions of scheduling theory. The first one was the Russian translation of the classical book Theory of Scheduling by American mathematicians R. W. Conway, W. L. Maxwell and L. W. Miller. The other one was the book Introduction to Scheduling Theory by Soviet mathematicians V. S. Tanaev and V. V. Shkurba. These books well complement each other. Both. books well represent major results known by that time, contain an exhaustive bibliography on the subject. Thus, the books, as well as the Russian translation of Computer and Job-Shop Scheduling Theory edited by E. G. Coffman, Jr., (Nauka, 1984) have contributed to the development of scheduling theory in the Soviet Union. Many different models, the large number of new results make it difficult for the researchers who work in related fields to follow the fast development of scheduling theory and to master new methods and approaches quickly.*

ARTIFICIAL INTELLIGENCE IN THEORY AND PRACTICE III

THIRD IFIP TC 12 INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, IFIP AI 2010, HELD AS PART OF WCC 2010, BRISBANE, AUSTRALIA, SEPTEMBER 20-23, 2010, PROCEEDINGS

Springer *The papers in this volume comprise the refereed proceedings of the conference Arti- cial Intelligence in Theory and Practice (IFIP AI 2010), which formed part of the 21st World Computer Congress of IFIP, the International Federation for Information Pr- essing (WCC-2010), in Brisbane, Australia in September 2010. The conference was organized by the IFIP Technical Committee on Artificial Int- ligence (Technical Committee 12) and its Working Group 12.5 (Artificial Intelligence Applications). All papers were reviewed by at least two members of our Program Committee. - nal decisions were made by the Executive Program Committee, which comprised John Debenham (University of Technology, Sydney, Australia), Ilias Maglogiannis (University of Central Greece, Lamia, Greece), Eunika Mercier-Laurent (KIM, France) and myself. The best papers were selected for the conference, either as long papers (maximum 10 pages) or as short papers (maximum 5 pages) and are included in this volume. The international nature of IFIP is amply reflected in the large number of countries represented here. I should like to thank the Conference Chair, Tharam Dillon, for all his efforts and the members of our Program Committee for reviewing papers under a very tight de- line.*

UNIVERSITY OF MICHIGAN OFFICIAL PUBLICATION

UM Libraries *Each number is the catalogue of a specific school or college of the University.*

THEORETICAL COMPUTER SCIENCE: EXPLORING NEW FRONTIERS OF THEORETICAL INFORMATICS

INTERNATIONAL CONFERENCE IFIP TCS 2000 SENDAI, JAPAN, AUGUST 17-19, 2000 PROCEEDINGS

Springer Science & Business Media *This book constitutes the refereed proceedings of the International Conference IFIP TCS 2000 held in Sendai, Japan in August 2000. The 32 revised full papers presented together with nine invited contributions were carefully reviewed and selected from a total of 70 submissions. The papers are organized in two tracks on algorithms, complexity, and models of*

computation and on logics, semantics, specification, and verification. The book is devoted to exploring new frontiers of theoretical informatics and addresses all current topics in theoretical computer science.

S. CHAND'S ICSE ECONOMIC APPLICATION BOOK II FOR CLASS X

S. Chand Publishing *S Chand'S ICSE Economic Application Book Ii Class-X*

INTELLIGENT COMPUTING THEORIES AND APPLICATION

18TH INTERNATIONAL CONFERENCE, ICIC 2022, XI'AN, CHINA, AUGUST 7–11, 2022, PROCEEDINGS, PART II

Springer Nature *This two-volume set of LNCS 13393 and LNCS 13394 constitutes - in conjunction with the volume LNAI 13395 - the refereed proceedings of the 18th International Conference on Intelligent Computing, ICIC 2022, held in Xi'an, China, in August 2022. The 209 full papers of the three proceedings volumes were carefully reviewed and selected from 449 submissions. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Advanced Intelligent Computing Technology and Applications". Papers focused on this theme were solicited, addressing theories, methodologies, and applications in science and technology.*

APPLICATIONS OF EVOLUTIONARY COMPUTING

EVOWORKSHOPS 2007:EVOCOMNET, EVOFIN, EVOIASP, EVOINTERACTION, EVOMUSART, EVOSTOC, AND EVOTRANSLOG, VALENCIA, SPAIN, APRIL 11-13, 2007, PROCEEDINGS

Springer Science & Business Media *This book constitutes the refereed joint proceedings of seven workshops on evolutionary computing, EvoWorkshops 2007, held in Valencia, Spain in April 2007. It examines evolutionary computation in communications, networks, and connected systems; finance and economics; image analysis and signal processing; and transportation and logistics. Coverage also details evolutionary algorithms in stochastic and dynamic environments.*

FRONTIERS OF ASSEMBLY AND MANUFACTURING

SELECTED PAPERS FROM ISAM'09'

Springer Science & Business Media *The technologies for product assembly and manufacturing evolve along with the advancement of enabling technologies such as material science, robotics, machine intelligence as well as information and communication. Furthermore, they may be subject to fundamental changes due to the shift in key product features and/or - gineering requirements. The enabling technologies emerging offer new opportunities for moving up the level of automation, optimization and reliability in product assembly and ma- facturing beyond what have been possible. We see assembly and manufacturing becoming more Intelligent with the perception-driven robotic autonomy, more flexible with the human-robot coupled collaboration in work cells, and more in- grated in scale and complexity under the distributed and networked frameworks. On the other hand, the shift in key product features and engineering requirements dictates the new technologies and tools for assembly and manufacturing to be - veloped. This may be exemplified by a high complexity of micro/nano system products integrated and packaged in 3D with various heterogeneous parts, com- nents, and interconnections, including electrical, optical, mechanical as well as fluidic means.*

HANDBOOK ON SCHEDULING

FROM THEORY TO PRACTICE

Springer *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.*

PARTICLE SWARM OPTIMIZATION AND INTELLIGENCE: ADVANCES AND APPLICATIONS

ADVANCES AND APPLICATIONS

IGI Global "This book presents the most recent and established developments of Particle swarm optimization (PSO) within a unified framework by noted researchers in the field"--Provided by publisher.

ALGORITHMS FOR SCHEDULING PROBLEMS

MDPI This book is a printed edition of the Special Issue " Algorithms for Scheduling Problems" that was published in Algorithms

MATLAB

MODELLING, PROGRAMMING AND SIMULATIONS

A B M Nasiruzzaman

MICAI 2005: ADVANCES IN ARTIFICIAL INTELLIGENCE

4TH MEXICAN INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, MONTERREY, MEXICO, NOVEMBER 14-18, 2005, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 4th Mexican International Conference on Artificial Intelligence, MICAI 2005, held in Monterrey, Mexico, in November 2005. The 120 revised full papers presented were carefully reviewed and selected from 423 submissions. The papers are organized in topical sections on knowledge representation and management, logic and constraint programming, uncertainty reasoning, multiagent systems and distributed AI, computer vision and pattern recognition, machine learning and data mining, evolutionary computation and genetic algorithms, neural networks, natural language processing, intelligent interfaces and speech processing, bioinformatics and medical applications, robotics, modeling and intelligent control, and intelligent tutoring systems.

APPLIED OPERATIONAL RESEARCH

1ST INTERNATIONAL CONFERENCE, ICAOR 2008, YEREVAN, ARMENIA, SEPTEMBER 15-17, 2008, PROCEEDINGS

ORLAB Analytics These proceedings gather contributions presented at the 1st International Conference on Applied Operational Research (ICAOR 2008) in Yerevan, Armenia, September 15-17, 2008, published in the series Lecture Notes in Management Science (LNMS). The conference covers all aspects of Operational Research and Management Science (OR/MS) with a particular emphasis on applications.

REAL-TIME AND EMBEDDED COMPUTING SYSTEMS AND APPLICATIONS

9TH INTERNATIONAL CONFERENCE, RTCSA 2003, TAINAN, TAIWAN, FEBRUARY 18-20, 2003. REVISED PAPERS

Springer Science & Business Media This book constitutes the thoroughly refereed post-proceedings of the 9th International Conference on Real-Time and Embedded Systems and Applications, RTCSA 2003, held in Tainan, Taiwan, in February 2003. The 28 revised full papers and 9 revised short papers presented were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on scheduling, networking and communication, embedded systems and environments, pervasive and ubiquitous computing, systems and architectures, resource management, file systems and databases, performance analysis, and tools and development.

ALGORITHMS AND THEORY OF COMPUTATION HANDBOOK

CRC Press Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues. It offers a balanced perspective that reflects the needs of practitioners, including emphasis on applications within discussions on theoretical issues. Chapters include information on finite precision issues as well as discussion of specific

algorithms where algorithmic techniques are of special importance, including graph drawing, robotics, forming a VLSI chip, vision and image processing, data compression, and cryptography. The book also presents some advanced topics in combinatorial optimization and parallel/distributed computing. • applications areas where algorithms and data structuring techniques are of special importance • graph drawing • robot algorithms • VLSI layout • vision and image processing algorithms • scheduling • electronic cash • data compression • dynamic graph algorithms • on-line algorithms • multidimensional data structures • cryptography • advanced topics in combinatorial optimization and parallel/distributed computing

TIMS/ORSA BULLETIN

THEORY AND PRACTICE OF ALGORITHMS IN (COMPUTER) SYSTEMS

FIRST INTERNATIONAL ICST CONFERENCE, TAPAS 2011, ROME, ITALY, APRIL 18-20, 2011, PROCEEDINGS

Springer *This book constitutes the refereed proceedings of the First International ICST Conference on Theory and Practice of Algorithms in (Computer) Systems, TAPAS 2011, held in Rome, Italy, in April 2011. The 25 papers presented, including three short papers by invited speakers, were carefully reviewed and selected from 45 submissions. The papers all feature original research in the design, implementation and evaluation of algorithms with special focus on algorithms for combinatorial optimization problems, and to real-world applications, engineering and experimental analysis of algorithms - thus fostering the cooperation among researchers in computer science, networking, discrete mathematics, mathematical programming and operations research.*

JOB SCHEDULING STRATEGIES FOR PARALLEL PROCESSING

IPPS '96 WORKSHOP, HONOLULU, HAWAII, APRIL 16, 1996. PROCEEDINGS

Springer Science & Business Media *This book constitutes the strictly refereed post-workshop proceedings of the International Workshop on Job Scheduling Strategies for Parallel Processing, held in conjunction with IPPS '96 symposium in Honolulu, Hawaii, in April 1996. The book presents 15 thoroughly revised full papers accepted for inclusion on the basis of the reports of at least five program committee members. The volume is a highly competent contribution to advancing the state-of-the-art in the area of job scheduling for parallel supercomputers. Among the topics addressed are job scheduler, workload evolution, gang scheduling, multiprocessor scheduling, parallel processor allocation, and distributed memory environments.*

PROJECT SCHEDULING WITH TIME WINDOWS

FROM THEORY TO APPLICATIONS ; WITH 17 TABLES

Springer Science & Business Media *Project Scheduling is concerned with the allocation of scarce resources over time. The rich optimisation models with time windows that are treated in this book cover a multitude of practical decision problems arising in diverse application areas such as construction engineering or make-to-order production planning. The book shows how Constraint Propagation techniques from Artificial Intelligence can be successfully combined with Operations Research methods for developing powerful exact and heuristic solution algorithms for a very general class of scheduling problems. Example applications demonstrate the effectiveness of the approach.*

JOURNAL OF APPLIED OPERATIONAL RESEARCH

SPECIAL ISSUE ON SCHEDULING IN HEALTHCARE SYSTEMS

ORLAB Analytics *Many Healthcare providers have suffered a crisis of poor quality and inefficiency with rapidly increasing costs. Healthcare delivery faces complex scheduling needs and stands to gain from advances in scheduling technology and understanding. This special issue presents some new progress in applying scheduling techniques to several real-life problems in healthcare delivery.*

MATHEMATICAL ASPECTS OF SCHEDULING AND APPLICATIONS

Pergamon *Mathematical Aspects of Scheduling and Applications addresses the perennial problem of optimal utilization of finite resources in the accomplishment of an assortment of tasks or objectives. The book provides ways to uncover the core of these problems, presents them in mathematical terms, and devises mathematical solutions for them.*

QUALIFICATION STANDARDS FOR POSITIONS UNDER THE GENERAL SCHEDULE

HANDBOOK OF PARALLEL COMPUTING

MODELS, ALGORITHMS AND APPLICATIONS

CRC Press *The ability of parallel computing to process large data sets and handle time-consuming operations has resulted in unprecedented advances in biological and scientific computing, modeling, and simulations. Exploring these recent developments, the Handbook of Parallel Computing: Models, Algorithms, and Applications provides comprehensive coverage on a*