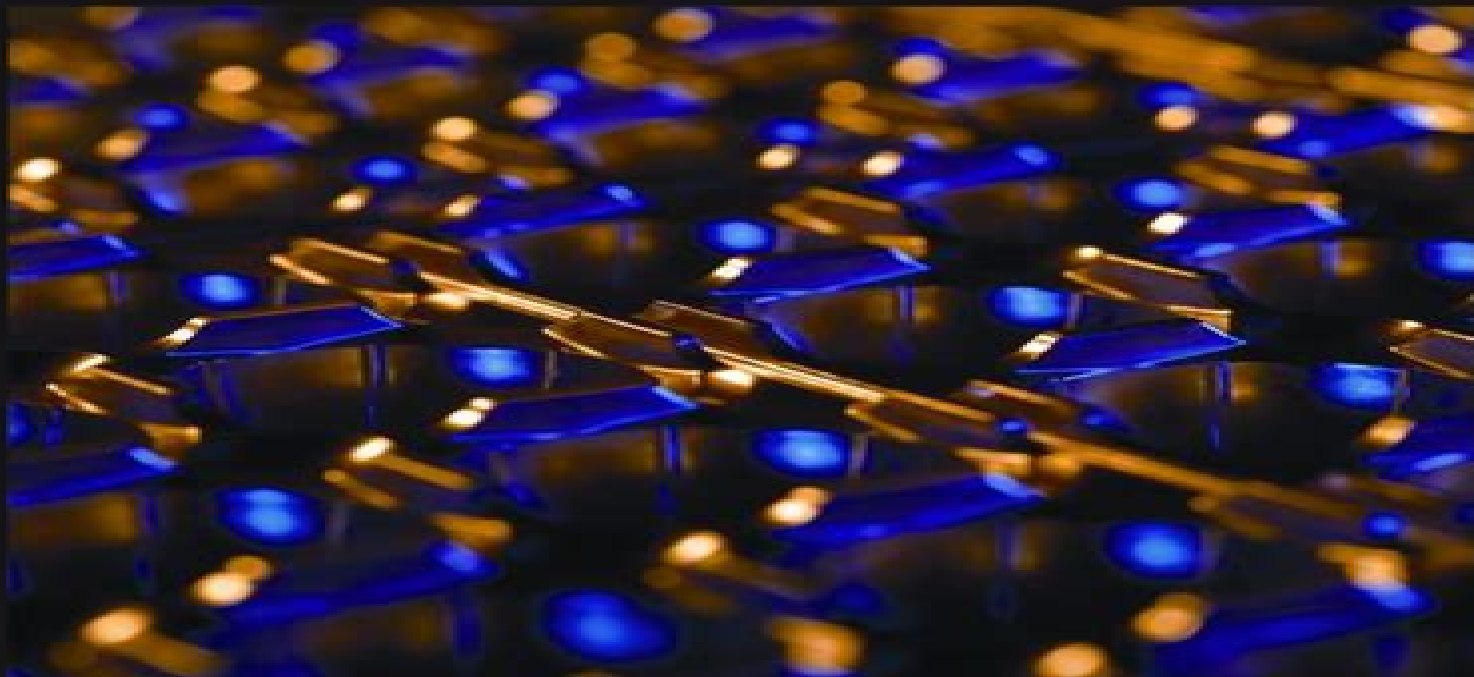


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Hybrid Algorithms for Service, Computing and Manufacturing Systems

Routing and Scheduling Solutions



**Jairo R. Montoya-Torres, Angel A. Juan, Luisa Huaccho Huatuco,
Javier Faulin & Gloria L. Rodriguez-Verjan**

Hybrid Algorithms For Service Computing And Manufacturing Systems Routing And Scheduling Solutions

Angel Corberan, Gilbert Laporte



Hybrid Algorithms For Service Computing And Manufacturing Systems Routing And Scheduling Solutions:

Hybrid Algorithms for Service, Computing and Manufacturing Systems Jairo R. Montoya-Torres, 2012 This book explores research developments and applications from an interdisciplinary perspective that combines approaches from operations research computer science artificial intelligence and applied computational mathematics Provided by publisher

Enterprise Business Modeling, Optimization Techniques, and Flexible Information Systems Papajorgji, Petraq, 2013-04-30 Many factors can impact large scale enterprise management systems and maintaining these systems can be a complicated and challenging process Therefore businesses can benefit from an assortment of models and management styles to track and collect data for processes Enterprise Business Modeling Optimization Techniques and Flexible Information Systems supplies a wide array of research on the intersections of business modeling information systems and optimization techniques These various business models and structuring methods are proposed to provide ideas methods and points of view for managers practitioners entrepreneurs and researchers on how to improve business processes

Decision Making in Service Industries Javier Faulin, Angel A. Juan, Scott E. Grasman, Michael J. Fry, 2012-08-08 In real life scenarios service management involves complex decision making processes usually affected by random or stochastic variables Under such uncertain conditions the development and use of robust and flexible strategies algorithms and methods can provide the quantitative information necessary to make better business decisions Decision Making in Service Industries A Practical Approach explores the challenges that must be faced to provide intelligent strategies for efficient management and decision making that will increase your organization's competitiveness and profitability The book provides insight and understanding into practical and methodological issues related to decision making processes under uncertainty in service industries It examines current and future trends regarding how these decision making processes can be efficiently performed for better design of service systems by using probabilistic algorithms as well as hybrid and simulation based approaches Traditionally many quantitative tools have been developed to make decisions in production companies This book explores how to use these tools for making decisions inside service industries Thus the authors tackle strategic tactical and operational problems in service companies with the help of suitable quantitative models such as heuristic and metaheuristic algorithms simulation or queuing theory Generally speaking decision making is a hard task in business fields Making the issue more complex most service companies problems are related to the uncertainty of the service demand This book sheds light on these types of decision problems It provides studies that demonstrate the suitability of quantitative methods to make the right decisions Consequently this book presents the business analytics needed to make strategic decisions in service industries

Milk Run Design: Definitions, Concepts and Solution Approaches Meyer, Anne, 2017-05-10 Efficient inbound networks in the European automotive industry rely on a set of different transport concepts including milk runs understood as regularly scheduled pickup tours The complexity of designing such a mixed network makes decision support necessary In this book we provide definitions

mathematical models and a solution method for the Milk Run Design problem and introduce indicators assessing the performance of established milk runs in relation to alternative transport concepts

Computer-based Modelling and Optimization in Transportation Jorge Freire Sousa, Riccardo Rossi, 2014-02-20 This volume brings together works resulting from research carried out by members of the EURO Working Group on Transportation EWGT and presented during meetings and workshops organized by the Group under the patronage of the Association of European Operational Research Societies in 2012 and 2013 The main targets of the EWGT include providing a forum to share research information and experience encouraging joint research and the development of both theoretical methods and applications and promoting cooperation among the many institutions and organizations which are leaders at national level in the field of transportation and logistics The primary fields of interest concern operational research methods mathematical models and computation algorithms to solve and sustain solutions to problems mainly faced by public administrations city authorities public transport companies service providers and logistic operators Related areas of interest are land use and transportation planning traffic control and simulation models traffic network equilibrium models public transport planning and management applications of combinatorial optimization vehicle routing and scheduling intelligent transport systems logistics and freight transport environment problems transport safety and impact evaluation methods In this volume attention focuses on the following topics of interest Decision making and decision support Energy and Environmental Impacts Urban network design Optimization and simulation Traffic Modelling Control and Network Traffic Management Transportation Planning Mobility Accessibility and Travel Behavior Vehicle Routing

Computational Logistics Francesco Corman, Stefan Voß, Rudy R. Negenborn, 2015-09-18 This book constitutes the refereed proceedings of the 6th International Conference on Computational Logistics ICCL 2015 held in Delft The Netherlands in September 2015 The 50 papers presented in this volume were carefully reviewed and selected for inclusion in the book They are organized in topical sections entitled transport over ground transport over water international coordination within a system external coordination among systems

Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance Vasant, Pandian M., 2012-09-30 Optimization techniques have developed into a significant area concerning industrial economics business and financial systems With the development of engineering and financial systems modern optimization has played an important role in service centered operations and as such has attracted more attention to this field Meta heuristic hybrid optimization is a newly development mathematical framework based optimization technique Designed by logicians engineers analysts and many more this technique aims to study the complexity of algorithms and problems Meta Heuristics Optimization Algorithms in Engineering Business Economics and Finance explores the emerging study of meta heuristics optimization algorithms and methods and their role in innovated real world practical applications This book is a collection of research on the areas of meta heuristics optimization algorithms in engineering business economics and finance and aims to be a comprehensive reference for

decision makers managers engineers researchers scientists financiers and economists as well as industrialists

E-Marketing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2012-05-31 The popularity of e marketing has helped both small and large businesses to get their products and services message to an unbounded number of potential clients Keeping in contact with your customers no longer require an extended period of time but rather mere seconds E Marketing Concepts Methodologies Tools and Applications presents a vital compendium of research detailing the latest case studies architectures frameworks methodologies and research on e marketing With contributions from authors around the world this three volume collection presents the most sophisticated research and developments from the field relevant to researchers academics and practitioners alike In order to stay abreast of the latest research this book affords a vital look into electronic marketing research **Encyclopedia of Business**

Analytics and Optimization Wang, John, 2014-02-28 As the age of Big Data emerges it becomes necessary to take the five dimensions of Big Data volume variety velocity volatility and veracity and focus these dimensions towards one critical emphasis value The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management data visualization interdisciplinary communication and others Through its critical approach and practical application this book will be a must have reference for any professional leader analyst or manager interested in making the most of the knowledge resources at their disposal

Arc Routing Angel Corberan, Gilbert Laporte, 2015-01-01 This book provides a thorough and up to date discussion of arc routing by world renowned researchers Organized by problem type the book offers a rigorous treatment of complexity issues models algorithms and applications Arc Routing Problems Methods and Applications opens with a historical perspective of the field and is followed by three sections that cover complexity and the Chinese Postman and the Rural Postman problems the Capacitated Arc Routing Problem and routing problems with min max and profit maximization objectives and important applications including meter reading snow removal and waste collection **Computational Logistics** Hao Hu, Xiaoning Shi, Robert Stahlbock, Stefan Voß, 2012-08-27 This book constitutes the refereed proceedings of the Third International Conference on Computational Logistics held in Shanghai China in September 2012 The 15 revised full papers presented were carefully reviewed and selected from various submissions The papers are organized in topical sections on maritime shipping logistics and supply chain management planning and operations and case studies **Deep Learning and Parallel**

Computing Environment for Bioengineering Systems Arun Kumar Sangaiah, 2019-07-26 Deep Learning and Parallel Computing Environment for Bioengineering Systems delivers a significant forum for the technical advancement of deep learning in parallel computing environment across bio engineering diversified domains and its applications Pursuing an interdisciplinary approach it focuses on methods used to identify and acquire valid potentially useful knowledge sources Managing the gathered knowledge and applying it to multiple domains including health care social networks mining

recommendation systems image processing pattern recognition and predictions using deep learning paradigms is the major strength of this book This book integrates the core ideas of deep learning and its applications in bio engineering application domains to be accessible to all scholars and academicians The proposed techniques and concepts in this book can be extended in future to accommodate changing business organizations needs as well as practitioners innovative ideas Presents novel in depth research contributions from a methodological application perspective in understanding the fusion of deep machine learning paradigms and their capabilities in solving a diverse range of problems Illustrates the state of the art and recent developments in the new theories and applications of deep learning approaches applied to parallel computing environment in bioengineering systems Provides concepts and technologies that are successfully used in the implementation of today s intelligent data centric critical systems and multi media Cloud Big data *Recent Advances in Intelligent Manufacturing* Shilong Wang,Mark Price,Ming K. Lim,Yan Jin,Yuanxin Luo,Rui Chen,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

Smart Delivery Systems Jakub Nalepa,2019-11-15 Smart Delivery Systems Solving Complex Vehicle Routing Problems examines both exact and approximate methods for delivering optimal solutions to rich vehicle routing problems showing both the advantages and disadvantages of each approach It shows how to apply machine learning and advanced data analysis techniques to improve routing systems familiarizing readers with the concepts and technologies used in successfully implemented delivery systems The book explains both the latest theoretical and practical advances in intelligent delivery and scheduling systems and presents practical applications for designing new algorithms for real life scenarios Emphasizes both sequential and parallel algorithms Uniquely combines methods and algorithms real life applications and parallel computing Includes recommendations on how to choose between different methods for solving applications Provides learning aids end of chapter references bibliography worked examples and exercises **Service Oriented, Holonic and Multi-Agent**

Manufacturing Systems for Industry of the Future Damien Trentesaux,Theodor Borangiu,Paulo Leitão,Jose-Fernando Jimenez,Jairo R. Montoya-Torres,2021-07-28 This book approaches its subject matter by promoting concepts methods and solutions for the digital transformation of manufacturing through service orientation in holonic and agent based control with distributed intelligence The scientific theme of the book concerns Manufacturing as a Service developed by virtualizing and encapsulating manufacturing resources activities and controls into cloud networked services in an open perspective that

spans models from shop floor resource allocation to enterprise infrastructure sharing The papers included in the application space have a profound human dedication and aim at solving societal needs serving the partnership of the future people and industry in the era of Society 5.0 The book's readership includes researchers and engineers working in manufacturing supply chains and logistics areas who innovate develop and use digital control solutions and students enrolled in Engineering and Service Science programs

Computer & Control Abstracts, 1996

Service Orientation in Holonic and Multi-Agent Manufacturing Control Theodor Borangiu, André Thomas, Damien Trentesaux, 2012-03-28 Service orientation is emerging nowadays at multiple organizational levels in enterprise business and it leverages technology in response to the growing need for greater business integration flexibility and agility of manufacturing enterprises The Service Oriented Architecture SOA analysed throughout the book represents a technical architecture a business modelling concept a type of infrastructure an integration source and a new way of viewing units of automation within the enterprise The primary goal of SOA is to align the business world with the world of information technology in a way that makes both more effective The service value creation model at enterprise level consists of using a Service Component Architecture for business process applications based on entities which handle services In this view a service is a piece of software encapsulating the business control logic or resource functionality of an enterprise entity that exhibits an individual competence and responds to a specific request to fulfil a local operation or global objective batch production The value creation model is based on a 2 stage approach Agentification complex manufacturing processes are split in services provided by informational agents which are discovered accessed and executed This leads to a modular reusable agile and easy integrate integration Holonification holons link the material flow and physical entities of the manufacturing processes with the informational part IT services realized by distributed intelligence facilitating thus traceability the developing of flexible control systems This book gathers contributions from scientists researchers and industrialists on concepts methods frameworks and implementing issues addressing trends in the service orientation of control technology and management applied to manufacturing enterprise This book gathers contributions from scientists researchers and industrialists on concepts methods frameworks and implementing issues addressing trends in the service orientation of control technology and management applied to manufacturing enterprise

Intelligent Computing Kohei Arai, 2023-08-19 This book is a collection of extremely well articulated insightful and unique state of the art papers presented at the Computing Conference which took place in London on June 22-23 2023 A total of 539 papers were received out of which 193 were selected for presenting after double blind peer review The book covers a wide range of scientific topics including IoT Artificial Intelligence Computing Data Science Networking Data security and Privacy etc The conference was successful in reaping the advantages of both online and offline modes The goal of this conference is to give a platform to researchers with fundamental contributions and to be a premier venue for academic and industry practitioners to share new ideas and development experiences We hope that readers find this book

interesting and valuable We also expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject

Healthcare Staff Scheduling Michael Mutingi, Charles Mbohwa, 2015-09-08 Healthcare operations in hospitals and home healthcare settings are inundated with complex fuzzy features that impose difficulties in the creation of work schedules This book presents in depth research on emerging approaches to healthcare staff scheduling It starts by reviewing the key issues and challenges inherent in staff scheduling along with the basic concepts of fuzzy set theory Examining cutting edge research applications it details fuzzy optimization algorithms derived from biologically inspired approaches and fuzzy theory Facilitating a practical and in depth understanding of modern fuzzy metaheuristic optimization approaches the book presents recent research on multi criteria algorithms and their applications in healthcare operations particularly staff scheduling

Distributed Computing and Artificial Intelligence, 14th International Conference Sigeru Omatu, Sara Rodríguez, Gabriel Villarrubia, Pedro Faria, Paweł Sitek, Javier Prieto, 2017-06-19 The 14th International Symposium on Distributed Computing and Artificial Intelligence 2017 DCAI 2017 provided a forum for presenting the application of innovative techniques to study and solve complex problems The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to advancing the development of systems that can meet the ever growing demands of today s society The book brings together past experience current work and promising future trends in distributed computing artificial intelligence and their applications to efficiently solve real world problems It combines contributions in well established and evolving areas of research including the content of the DCAI 17 Special Sessions which focused on multi disciplinary and transversal aspects such as AI driven methods for multimodal networks and processes modeling and secure management towards smart buildings and smart grids The symposium was jointly organized by the Polytechnic of Porto the Osaka Institute of Technology and the University of Salamanca The latest event was held in Porto Portugal from 21st to 23rd June 2017

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