

The background of the cover is a composite image. On the left, a tall industrial smokestack emits a plume of white smoke. In the center-left, three interlocking metal gears are visible. On the right, there is a blurred image of industrial control panels with various screens and buttons.

Emerging Optimization Techniques in Production Planning and Control

Godfrey C Onwubolu

Imperial College Press

Emerging Optimization Techniques In Production Planning And Control

Wolfgang Guggemos



Emerging Optimization Techniques In Production Planning And Control:

Emerging Optimization Techniques In Production Planning & Control Godfrey C Onwubolu, 2002-05-20 This book proposes a concept of adaptive memory programming AMP for grouping a number of generic optimization techniques used in combinatorial problems. The same common features seen in the use of memory and a local search procedure drive these emerging optimization techniques which include artificial neural networks, genetic algorithms, tabu search, and ant systems. The primary motivation for AMP therefore is to group and unify all these techniques so as to enhance the computational capabilities that they offer for combinatorial problems encountered in real life in the area of production planning and control. The text describes the theoretical aspects of AMP together with relevant production planning and control applications. It covers the techniques, applications, and algorithms. The book has been written in such a way that it can serve as an instructional text for students and those who are taking tuition on their own. The numerical examples given are first solved manually to enhance the reader's understanding of the material, and that is followed by a description of the algorithms and computer results. This way the student can fully follow the material. The algorithms described for each application are useful to both students and practitioners in grasping how to implement similar applications in computer code using emerging optimization techniques.

Manufacturing Scheduling Systems Jose M. Framinan, Rainer Leisten, Rubén Ruiz García, 2014-02-19 The book is devoted to the problem of manufacturing scheduling, which is the efficient allocation of jobs orders over machines/resources in a manufacturing facility. It offers a comprehensive and integrated perspective on the different aspects required to design and implement systems to efficiently and effectively support manufacturing scheduling decisions. Obtaining economic and reliable schedules constitutes the core of excellence in customer service and efficiency in manufacturing operations. Therefore, scheduling forms an area of vital importance for competition in manufacturing companies. However, only a fraction of scheduling research has been translated into practice due to several reasons. First, the inherent complexity of scheduling has led to an excessively fragmented field in which different sub-problems and issues are treated in an independent manner, as goals themselves, therefore lacking a unifying view of the scheduling problem. Furthermore, mathematical brilliance and elegance has sometimes taken preference over practical, general-purpose hands-on approaches when dealing with these problems. Moreover, the paucity of research on implementation issues in scheduling has restricted translation of valuable research insights into industry. Manufacturing Scheduling Systems: An Integrated View on Models, Methods, and Tools presents the different elements constituting a scheduling system along with an analysis of the manufacturing context in which the scheduling system is to be developed. Examples and case studies from real implementations of scheduling systems are presented in order to drive the presentation of the theoretical insights. The book is intended for an ample readership including industrial engineering operations, post-graduate students, and researchers, business managers, and readers seeking an introduction to the field.

Evolutionary Computation Wellington

Santos,2009-10-01 This book presents several recent advances on Evolutionary Computation specially evolution based optimization methods and hybrid algorithms for several applications from optimization and learning to pattern recognition and bioinformatics This book also presents new algorithms based on several analogies and metafores where one of them is based on philosophy specifically on the philosophy of praxis and dialectics In this book it is also presented interesting applications on bioinformatics specially the use of particle swarms to discover gene expression patterns in DNA microarrays Therefore this book features representative work on the field of evolutionary computation and applied sciences The intended audience is graduate undergraduate researchers and anyone who wishes to become familiar with the latest research work on this field

Evolutionary Computing in Advanced Manufacturing Manoj Tiwari,Jenny A. Harding,2011-07-05 This cutting edge book covers emerging evolutionary and nature inspired optimization techniques in the field of advanced manufacturing The complexity of real life advanced manufacturing problems often cannot be solved by traditional engineering or computational methods Hence in recent years researchers and practitioners have proposed and developed new strands of advanced intelligent techniques and methodologies Evolutionary computing approaches are introduced in the context of a wide range of manufacturing activities and through the examination of practical problems and their solutions readers will gain confidence to apply these powerful computing solutions The initial chapters introduce and discuss the well established evolutionary algorithm to help readers to understand the basic building blocks and steps required to successfully implement their own solutions to real life advanced manufacturing problems In the later chapters modified and improved versions of evolutionary algorithms are discussed The book concludes with appendices which provide general descriptions of several evolutionary algorithms

Disassembly Modeling for Assembly, Maintenance, Reuse and Recycling A.J.D. (Fred) Lambert,Surendra M. Gupta,2004-12-28 Industry has grown to recognize the value of disassembly processes across a wide range of products Increasing legislation that may soon require mandatory recycling of many post consumed goods and a desire to develop more environmentally benign end of life processes has fueled research into this concept Traditionally disassembly has been viewed a

Hybrid Self-Organizing Modeling Systems Godfrey C Onwubolu,2009-06-15 The Group Method of Data Handling GMDH is a typical inductive modeling method that is built on principles of self organization for modeling complex systems This book clearly presents hybrids of some computational intelligence techniques and GMDH approach

Mechatronics Godfrey Onwubolu,2005-05-25 Mechatronics is a core subject for engineers combining elements of mechanical and electronic engineering into the development of computer controlled mechanical devices such as DVD players or anti lock braking systems This book is the most comprehensive text available for both mechanical and electrical engineering students and will enable them to engage fully with all stages of mechatronic system design It offers broader and more integrated coverage than other books in the field with practical examples case studies and exercises throughout and an Instructor s Manual A further key feature of the book is its integrated coverage of programming the PIC

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Traveling Salesman Problem Donald Davendra,2010-12-30 This book is a collection of current research in the application of evolutionary algorithms and other optimal algorithms to solving the TSP problem It brings together researchers with applications in Artificial Immune Systems Genetic Algorithms Neural Networks and Differential Evolution Algorithm Hybrid systems like Fuzzy Maps Chaotic Maps and Parallelized TSP are also presented Most importantly this book presents both theoretical as well as practical applications of TSP which will be a vital tool for researchers and graduate entry students in the field of applied Mathematics Computing Science and Engineering

Mine Planning and Equipment Selection 2000 T.N. Michalakopoulos,2018-05-08 This text looks at mine planning and equipment and covers topics such as design and planning of surface and underground mines geotechnical stability in surface and underground mines and mining and the environment

Handbook of Research on Emerging Innovations in Rail Transportation Engineering Rai, B. Umesh,2016-05-31 The rail based transit system is a popular public transportation option not just with members of the public but also with policy makers looking to install a form of convenient and rapid travel Even for moving bulk freight long distances a rail based system is the most sustainable transportation system currently available The Handbook of Research on Emerging Innovations in Rail Transportation Engineering presents the latest research on next generation public transportation infrastructures Emphasizing a diverse set of topics related to rail based transportation such as funding issues policy design traffic planning and forecasting and engineering solutions this comprehensive publication is an essential resource for transportation planners engineers policymakers and graduate level engineering students interested in uncovering research based solutions recommendations and examples of modern rail transportation systems

Emerging Design Solutions in Structural Health Monitoring Systems Burgos, Diego Alexander Tibaduiza,Mujica, Luis Eduardo,Rodellar, Jose,2015-10-07 This book seeks to advance cutting edge research in the field with a special focus on cross disciplinary work involving recent advances in IT enabling structural health experts to wield groundbreaking new models of artificial intelligence as a diagnostic tool capable of identifying future problems before they even appear Provided by publisher

Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications Vasant, Pandian M.,2013-08-31 This book explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems demonstrating applications in areas such as bio engineering space exploration industrial informatics information security and nuclear and renewable energies Provided by publisher

New Trends in Software Methodologies, Tools and Techniques Hamido Fujita,Roberto Revetria,2012 Software is the essential enabling means for science and the new economy It helps us to create a more reliable flexible and robust

society But software often falls short of our expectations Current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods This book contains extensively reviewed papers from the eleventh International Conference on New Trends in software Methodology Tools and Techniques SoMeT_12 held in Genoa Italy in September 2012 The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business The emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the user Topics covered include the handling of cognitive issues in software development to adapt it to the user s mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models This book provides an opportunity for the software science community to show where we are today and where the future may take us Management 4.0:

Empowering Managers through Emerging Technologies Prof. Anurag Singh ,Dr Rubee Singh,2023-01-23 This book provides a comprehensive guide to Industry 4 0 applications presenting not only implementation aspects but also a conceptual framework for the design principles of these applications Additionally it discusses the new business models new managerial skills and workforce transformation for decision makers that need to be taught to both existing and future leaders and reflected in Industry 4 0 for the management profession The book then examines the eminent technological advances that form the pillars of Management 4 0 and explores their potential technical and economic benefits through real world examples This book covers various issues related to the successful management of emerging technologies for the first time

Handbook of Industrial Engineering Gavriel Salvendy,2001-05-25 Unrivalled coverage of a broad spectrum of industrial engineering concepts and applications The Handbook of Industrial Engineering Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity quality and competitiveness and improving the quality of working life in manufacturing and service industries This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications technology performance improvement management management planning and design control and decision making methods Completely updated and expanded to reflect nearly a decade of important developments in the field this Third Edition features a wealth of new information on project management supply chain management and logistics and systems related to service industries Other important features of this essential reference include More than 1 000 helpful tables graphs figures and formulas Step by step descriptions of hundreds of problem solving methodologies Hundreds of clear easy to follow application examples Contributions from 176 accomplished international professionals with diverse training and affiliations More than 4 000

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in Latin America and Emerging Economies Eduardo Rodriguez, 2017-07-28 This book focuses on understanding the analytics knowledge management process and its comprehensive application to various socioeconomic sectors Using cases from Latin America and other emerging economies it examines analytics knowledge applications where a solution has been achieved Written for business students and professionals as well as researchers the book is filled with practical insight into applying concepts and implementing processes and solutions The eleven case studies presented in the book incorporate the whole analytics process and are useful reference examples for applying the analytics process for SME organizations in both developing and developed economies The cases also identify multiple tacit factors to deal with during the implementation of analytics knowledge management processes These factors which include data cleaning data gathering and interpretation of results are not always easily identified by analytics practitioners This book promotes the understanding of analytics methods and techniques It guides readers through numerous techniques and methods available to analytics practitioners by explaining the strengths and weaknesses of these methods and techniques

Urban Governance Jiuping Xu, Yi Lu, Asaf Hajiye, Zongmin Li, 2025-06-27 This book offers a comprehensive exploration of the latest advancements in sustainable and resilient supply chain management The chapters in this volume present a diverse range of topics including innovative strategies for optimizing sustainable food supply chains through data envelopment analysis dynamic multi modal perspectives on global supply chain network configuration and robust data driven optimization techniques for designing sustainable cold supply chains for livestock and perishable goods Other chapters delve into key areas such as optimal pricing and production lot size strategies for sustainable inventory models carbon sensitive transport solutions for deteriorating supply chains and trade credit policies in growing product supply chains Additionally the book addresses the complexities of inventory management purchasing and cutting policies for imperfect and perishable raw materials the influence of supply chain finance and trade digitization on financial stability and the development of heuristic master planning algorithms that prioritize fairness and flexibility Further studies examine adaptive product changeover policies a PDCA based approach to evaluating green supply chain performance and robust multi criteria decision analysis techniques for selecting transportation service providers in the face of uncertainty By offering insights into both theoretical and practical aspects this book provides a valuable resource for researchers practitioners and policymakers looking to navigate the evolving landscape of sustainable supply chains This book will be valuable to students researchers and policymakers in the fields of supply chain management sustainable logistics and operations research The chapters in this book were originally published in International Journal of Management Science and Engineering Management

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