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Patrick X. W. Zou, Xiaoxiao Xu



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Management Science, 2005 Issues for Feb 1965 Aug 1967 include Bulletin of the Institute of Management Sciences

Applied Management Science Rick Hesse, Robert E. D. Woolsey, 1980 **Smart Analytics, Artificial Intelligence and Sustainable Performance Management in a Global Digitalised Economy** Pallavi Tyagi, Simon Grima, Kiran Sood, Balamurugan Baluswamy, Ercan Özen, Eleftherios I. Thalassinou, 2023-05-29 The Covid 19 pandemic has created chaos in the business world and forced leaders to rethink their operational status quo Balancing the physical and virtual spaces of the global digital economy has called for additional support from data driven technologies like smart analytics and artificial intelligence Proceedings of the 2025 6th International Conference on Management Science and Engineering Management (ICMSEM 2025) Sameer Kumar, Xiongfeng Pan, Norhayati Zakuan, Kosga Yagapparaj, 2025-09-15 This is an open access book Management science and engineering management is a multidisciplinary field focusing on the application of mathematical models statistical analysis information technology and system engineering principles to solve complex management problems and improve the quality efficiency and effectiveness of organizational decision making It aims to optimize the allocation of enterprise resources enhance operational efficiency promote technological innovation and improve strategic planning through scientific analysis and application of engineering technology This field involves a wide range of research topics including but not limited to operations management supply chain management project management quality management risk management information system management technological innovation and R D management Therefore for scholars researchers and industry practitioners involved in this field it is of great significance to explore the latest progress challenges and future trends of management science and engineering management to promote the development of disciplines and solve practical problems **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 *Multiple Criteria Decision Making Applications in Environmentally Conscious Manufacturing and Product Recovery* Surendra M. Gupta, Mehmet Ilgin, 2017-10-17 In order to ensure environmentally responsible production and disposal of products local governments are imposing stricter environmental regulations some of which even require manufacturers to take back their products at the end of the product s useful life These government regulations together with increasing environmental awareness have forced manufacturers to invest in environment conscious manufacturing The multiple Criteria Decision Making Techniques presented in this book can be employed to solve the problems of environment conscious manufacturers in product design logistics disassembly and remanufacturing

International Security Management Gabriele Jacobs, Ilona Suojanen, Kate E. Horton, Petra Saskia Bayerl, 2020-08-07 This book offers a new look at international security management combining practical applications and theoretical foundations for new solutions to today s complex security and safety challenges The book s focus on safety as a positive experience complements the traditional approach to safety as risks and threats In addition its multi stakeholder multi disciplinary international and evidence based approach provides holistic and timely insights for the field Topics raised in this book focus on the crucial questions of Who is safety actually for and How can sustainable safety solutions be jointly created This book provides comprehensive insights into the latest research findings practical applications and suggestions for dealing with challenges in international security management in integrated and sustainable ways making it relevant reading for practitioners as well as academics and students with a view to obtaining thorough first hand knowledge from serving experts in the field We explore new ways of working with citizens police and policymakers in order to co create safety This book emphasises the importance of safety as a topic that matters for all Safety and security are basic pillars for the development of our society However the number of areas actors and procedures involved in the management of the different elements composing the international security eco system its coordination and alignment make it a challenging issue to resolve This book provides a fresh new approach to this complex issue in which we all have a role to play Fernando Ruiz Acting Head of European Cyber Crime Centre Europol A very timely analysis that brings a much needed international perspective to the field of security management The authors explore the challenges confronting security management in a complex and connected world and generate new ideas to support practice and inspire research Professor Mark Griffin John Curtin Distinguished Professor Curtin University Director Future of Work Institute This book presents the role of International Security Management in the 21st century in an innovative way Dr Christian Endre Managing Director ASW Bundesverband German

Association for Security in Industry and Commerce

New Perspectives in Operations Research and Management

Science Y. Ilker Topcu, Şule Önsel Ekici, Özgür Kabak, Emel Aktas, Özay Özaydın, 2022-06-24 This book presents innovative operations research applications in business specifically industrial engineering and its sub disciplines It investigates new perspectives in operations research and management science with regard to research methods the research context and industrial engineering offering readers a broad range of new approaches to management problems The book features the latest work of researchers who have worked with Professor Fusun Ulengin or built upon her work in their academic careers Written in honor of Prof Ulengin this book was edited by her former Ph D students who are now experts in operations research multiple criteria decision making competitiveness logistics and supply chain management Prof Ulengin s impact in academia is visible in the range of topics and methodologies featured in this book Location and transportation problems competitiveness of nations food supply chains debt collection mathematical modelling multiple criteria decision making data envelopment analysis random forests and Bayesian networks

Operations Research/Management Science at Work Erhan Kozan, Azuma Ohuchi, 2012-12-06 The principle aim of this book entitled Operations Research/Management Science at Work is to provide a summary snapshot of recent research in and applications of Operations Research OR Management Science MS in the Asia pacific region The book emphasises research having potential industry interest covering a wide range of topics from major fields of ORIMS in a systematic and coherent fashion and shows the elegance of their implementations The book is intended to serve the needs of applied researchers who are interested in applications of ORIMS algorithms The book includes descriptions of many real world problems together with their solutions we hope the reader will appreciate their applicability The Asia pacific region has embraced business applications of decision support systems in recent years Given that many of these applications are unaffected by legacy models or systems it has meant that state of the art ORIMS techniques have been embedded in them Moreover the increased use of OR MS techniques in this region provides opportunities for identifying methodological advances that are taking place as a result of the unique nature of the applications These also provide opportunities for exploring synergies and interfaces that exist between OR MS from the point of view of applications as well as theoretical advances

Sustainable Logistics Systems Using AI-based Meta-Heuristics Approaches Jiuping Xu, Mitsuo Gen, Zongmin Li, YoungSu Yun, 2023-12-22 This book introduces and analyses recent trends and studies of sustainable logistics systems using AI based meta heuristics approaches including AI based meta heuristics applied to supply chain network models integrated multi criteria decision making approaches for green supply chain management uncertain supply chain models etc It emphasizes both theory and practice providing methodological and theoretical basis as well as case references for sustainable logistics systems using AI based meta heuristics Most of multi national enterprises today face the challenge of sustainable development for their logistics systems trying to meet or exceed customer expectations Sustainable development attracts both researchers and industrial practitioners who are focused on

the design and implementation of logistics system AI based meta heuristics approaches has emerged as a capable method for quickly providing optimal or near optimal solutions for the problems that exact optimization cannot solve Recent advances in various AI based meta heuristics approaches can resolve various and complex logistics and supply chain problem types This book mainly encompasses the most popular and frequently employed AI based meta heuristics approaches such as genetic algorithm variable neighborhood search multi objective heuristic search and the hybrid of these approaches The chapters in this book were originally published in the International Journal of Management Science and Engineering Management

Computer Safety, Reliability, and Security Francesca Saglietti, Norbert Oster, 2007-09-12 This book constitutes the refereed proceedings of the 26th International Conference on Computer Safety Reliability and Security SAFECOMP 2007 The 33 revised full papers and 16 short papers are organized in topical sections on safety cases impact of security on safety fault tree analysis safety analysis security aspects verification and validation platform reliability reliability evaluation formal methods static code analysis safety related architectures

Sustainable Development Research in Green Infrastructure, Water Resources, Manufacturing, and Process Engineering Metadel Kassahun Abera, Muluken Temsigen Tigabu, Ahmed Abide Tadesse, Addis Aschenik Alaminie, 2025-08-21 This book showcases the latest research and developments in science engineering and emerging green technologies that impact sustainable development in manufacturing and industrial processing engineering particularly in developing countries It covers a wide range of topics including machinery fault diagnosis biomechanics food processing and preservation engineering properties fermentation pretreatment technologies biopesticides extraction treatment of water hyacinth flood vulnerability surface water quality assessment and emerging technologies related to manufacturing process sustainable infrastructure and water resource engineering It is aimed at researchers engineers industry professionals graduate students and practitioners looking for cutting edge research on sustainability and sustainable industrial development

Responsible Manufacturing Ammar Y. Alqahtani, Elif Kongar, Kishore K. Pochampally, Surendra M. Gupta, 2019-02-25 Responsible Manufacturing has become an obligation to the environment and to society itself enforced primarily by customer perspective and governmental regulations on environmental issues This is mainly driven by the escalating deterioration of the environment such as diminishing raw material resources overflowing waste sites and increasing levels of pollution Responsible Manufacturing related issues have found a large following in industry and academia which aim to find solutions to the problems that arise in this newly emerged research area Problems are widespread including the ones related to the lifecycle of products disassembly material recovery remanufacturing and pollution prevention Organized into sixteen chapters this book provides a foundation for academicians and practitioners and addresses several important issues faced by strategic tactical and operation planners of Responsible Manufacturing Using efficient models in a variety of decision making situations it provides easy to use mathematical and or simulation modeling based solution methodologies for the majority of the issues Features Addresses a variety of state of the

art issues in Responsible Manufacturing Highlights how popular industrial engineering and operations research techniques can be effectively exploited to find the most effective solutions to problems Presents how a specific issue can be approached or modeled in a given decision making situation Covers strategic tactical and operational systems issues Provides a foundation for academicians and practitioners interested in building bodies of knowledge in this new and fast growing area

Research Methodology and Strategy Patrick X. W. Zou,Xiaoxiao Xu,2023-08-01 Research Methodology and Strategy Provides comprehensive coverage of the entire research process methodologies strategies and their applications ideal for final year undergraduate Masters and PhD students academics researchers and professionals Research Methodology and Strategy Theory and Practice is designed to help readers understand the research process and equip them with the skills required to successfully execute their projects In depth chapters describe the general research processes different research paradigms and their applications and criticism and more Written by authors with decades of research experience this authoritative textbook addresses the skills needed by all active researchers including mixed method research design and development data and technology driven research methodologies writing and publishing research outcomes strengthening research practice nexus and strategies for improving research impact and citations Provides a solid understanding of interdisciplinary research and analytical methods Offers clear guidance on the application of data driven and technology enabled research methods Covers qualitative quantitative and mixed methods research methodologies Discusses different case study research methods and practices Describes methods drawn from business management economics and social sciences research Provides strategies for thesis and journal article writing and publishing Provides theoretical frameworks and examples for research practice nexus and improving research impacts Research Methodology and Strategy Theory and Practice is an invaluable textbook for senior undergraduate masters and PhD research students academic and scientific researchers and industry professionals who perform research in the course of their work **Proceedings of the Sixteenth International Conference on Management Science and Engineering Management - Volume 2** Jiuping Xu,Fulya Altiparmak,Mohamed Hag Ali Hassan,Fausto Pedro García Márquez,Asaf Hajiyevev,2022-07-13 This book covers many hot topics including theoretical and practical research in many areas such as dynamic analysis machine learning supply chain management operations management environmental management uncertainty and health and hygiene It showcases advanced management concepts and innovative ideas The 16th International Conference on Management Science and Engineering Management 2022 ICMSEM will be held in Ankara Turkey during August 3 6 2022 ICMSEM has always been committed to promoting innovation management science M S and engineering management EM academic research and development The book provides researchers and practitioners in the field of Management Science and Engineering Management MSEM with the latest cutting edge thinking and research in the field It will appeal to readers interested in these fields especially those looking for new ideas and research directions *The Management of Maritime Regulations*

Hristos Karahalios, 2015-06-19 Ship management is a worldwide activity Modern ships are sophisticated designed structures equipped with several automatic devices It is estimated that 90 per cent of commodities transported worldwide are carried by ships Therefore there is great interest from many private and public organizations that those ships are operating manned designed and maintained within international acceptable standards The obligation of stakeholders to comply with maritime regulations is included in most statutory and commercial agreements and therefore inadequate implementation of maritime regulations exposes stakeholders to commercial risks This book explores how the application of mathematical decision making tools could be used to manage maritime regulations Performance management tools are proposed which would allow stakeholders to monitor the regulatory performance of their organization in order to reduce or eliminate those commercial risks The process of introducing an implementation process for maritime regulations worldwide is described within this text An emphasis is put on the role of main stakeholders in the regulatory process and reasons that increase the willingness of stakeholders to participate in the implementation of regulations This book will be of interest to scholars and students interested in the management of the shipping industry as well as ship owners and managers who are charged with implementing maritime regulations

Proceedings of the Ninth International Conference on Management Science and Engineering Management Jiuping Xu, Stefan Nickel, Virgilio Cruz Machado, Asaf Hajiyeve, 2015-05-20 This is the Proceedings of the Ninth International Conference on Management Science and Engineering Management ICMSEM held from July 21-23 2015 at Karlsruhe Germany The goals of the conference are to foster international research collaborations in Management Science and Engineering Management as well as to provide a forum to present current findings These proceedings cover various areas in management science and engineering management It focuses on the identification of management science problems in engineering and innovatively using management theory and methods to solve engineering problems effectively It also establishes a new management theory and methods based on experience of new management issues in engineering Readers interested in the fields of management science and engineering management will benefit from the latest cutting edge innovations and research advances presented in these proceedings and will find new ideas and research directions A total number of 132 papers from 15 countries are selected for the proceedings by the conference scientific committee through rigorous referee review The selected papers in the first volume are focused on Intelligent System and Management Science covering areas of Intelligent Systems Logistics Engineering Information Technology and Risk Management The selected papers in the second volume are focused on Computing and Engineering Management covering areas of Computing Methodology Project Management Industrial Engineering and Decision Making Systems

Proceedings of the Fifteenth International Conference on Management Science and Engineering Management Jiuping Xu, Fausto Pedro García Márquez, Mohamed Hag Ali Hassan, Gheorghe Duca, Asaf Hajiyeve, Fulya Altiparmak, 2021-07-30 This book gathers the proceedings of the fifteenth International Conference on Management Science and Engineering

Management ICMSEM 2021 held on August 1 4 2021 at the University of Castilla La Mancha UCLM Toledo Spain The proceedings contains theoretical and practical research of decision support systems complex systems empirical studies sustainable development project management and operation optimization showing advanced management concepts and demonstrates substantial interdisciplinary developments in MSEM methods and practical applications It allows researchers and practitioners in management science and engineering management MSEM to share their latest insights and contribution Meanwhile it appeals to readers interested in these areas especially those looking for new ideas and research directions

Multi-Criteria Decision Analysis in Management Behl, Abhishek, 2020-02-01 Multi criteria decision making MCDM has been extensively used in diverse disciplines with a variety of MCDM techniques used to solve complex problems A primary challenge faced by research scholars is to decode these techniques using detailed step by step analysis with case studies and data sets The scope of such work would help decision makers to understand the process of using MCDM techniques appropriately to solve complex issues without making mistakes Multi Criteria Decision Analysis in Management provides innovative insights into the rationale behind using MCDM techniques to solve decision making problems and provides comprehensive discussions on these techniques from their inception development and growth to their advancements and applications The content within this publication examines hybrid multicriteria models value theory and data envelopment Ideal for researchers management professionals students operations scholars and academicians this scholarly work supports and enhances the decision making process

Green Supply Chain Management for Sustainable Business Practice Khan, Mehmood, Hussain, Matloub, Ajmal, Mian M., 2016-07-27 The issue of sustainability has become a vital discussion in many industries within the public and private sectors In the business realm incorporating such practices allows organizations to redesign their operations more effectively Green Supply Chain Management for Sustainable Business Practice examines the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises focusing on how green approaches improve operations in an ecological way Highlighting key concepts emerging innovations and future directions this book is a pivotal reference source for professionals managers educators and upper level students

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