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Multi-Criteria Decision Analysis via Ratio and Difference Judgement Freerk A. Lootsma 2007-08-23 The point of departure in the present book is that the decision makers, involved in the evaluation of alternatives under conflicting criteria, express their preferential judgement by estimating ratios of subjective values or differences of the corresponding logarithms, the so-called grades. Three MCDA methods are studied in detail: the Simple Multi-Attribute Rating Technique SMART, as well as the Additive and the Multiplicative AHP, both pairwise-comparison methods which do not suffer from the well-known shortcomings of the original Analytic Hierarchy Process. Context-related preference modelling on the basis of psycho-physical research in visual perception and motor skills is extensively discussed in the introductory chapters. Thereafter many extensions of the ideas are presented via case studies in university administration, health care, environmental assessment, budget allocation, and energy planning at the national and the European level. The issues under consideration are: group decision making with inhomogeneous power distributions, the search for a compromise solution, resource allocation and fair distributions, scenario analysis in long-term planning, conflict analysis via the pairwise comparison of concessions, and multi-objective optimization. The final chapters are devoted to the fortunes of MCDA in the hands of its designers. The research started in the late seventies, when I got involved in three different problems: the nomination procedures in a university, the evaluation of alternative energy-research proposals, and the evaluation of non-linear programming software.

2014 International Conference on Computer, Network 2014-03-12 The objective of the 2014 International Conference on Computer, Network Security and Communication Engineering (CNSCE2014) is to provide a platform for all researchers in the field of Computer, Network Security and Communication Engineering to share the most advanced knowledge from both academic and industrial world, to communicate with each other about their experience and most up-to-date research achievements, and to discuss issues and future prospects in these fields. As an international conference mixed with academia and industry, CNSCE2014 provides attendees not only the free exchange of ideas and challenges faced by these two key stakeholders and encourage future collaboration between members of these groups but also a good opportunity to make friends with scholars around the word. As the first session of the international conference on CNSCE, it covers topics related to Computer,

Network Security and Communication Engineering. CNSCE2014 has attracted many scholars, researchers and practitioners in these fields from various countries. They take this chance to get together, sharing their latest research achievements with each other. It has also achieved great success by its unique characteristics and strong academic atmosphere as well as its authority.

Multiple Attribute Decision Making Ching-Lai Hwang 2012-12-06 This mono graph is intended for an advanced undergraduate or graduate course as weIl as for the researchers who want a compilation of developments in this rapidly growing field of operations research. This is a sequel to our previous work entitled "Multiple Objective Decision Making--Methods and Applications: A State-of-the-Art Survey," (No. 164 of the Lecture Notes). The literature on methods and applications of Multiple Attribute Decision Making (MADM) has been reviewed and classified systematically. This study provides readers with a capsule look into the existing methods, their char acteristics, and applicability to analysis of MADM problems. The basic MADM concepts are defined and a standard notation is introduced in Part 11. Also introduced are foundations such as models for MADM, trans formation of attributes, fuzzy decision rules, and methods for assessing weight. A system of classifying seventeen major MADM methods is presented. These methods have been proposed by researchers in diversified disciplines; half of them are classical ones, but the other half have appeared recently. The basic concept, the computational procedure, and the characteristics of each of these methods are presented concisely in Part 111. The computational procedure of each method is illustrated by solving a simple numerical example. Part IV of the survey deals with the applications of these MADM methods.

A Science of Decision Making Ward Edwards 2009 In this book, 29 of Ward Edwards's most important published papers are reprinted, a selection that spans six decades, allowing the reader to see how this strikingly creative thinker generated many of the ideas that are now core beliefs among current researchers.

Value Functions for Environmental Management E. Beinat 2013-04-18 Environmental decisions must satisfy a multitude of objectives and the matching of a plan, policy or project to such objectives is a matter of both facts and value judgements. Value Functions for Environmental Management provides a systematic approach to the structuring and measurement of value judgements, showing how they drive the decision process and how to make them transparent and effective in support of complex decisions. The value functions that the book describes provide a scheme for the exploration of human values and a tool for transforming them into an analytical model. A clear statement can then be made of the degree to which a decision has achieved its objectives, and how conflicting objectives may be addressed. This does not mean that there is no role for human judgement in the process. Complexity, often coupled with large information gaps, necessitates expert judgement, but the values adopted by the experts are themselves capable of being structured and measured according to the value function methodology presented here, even if the judgements themselves are qualitative and tentative. Value models for expert panels are also presented. The use of the methodology in practice is illustrated by examples. The book contains an extensive subject index.

Making Ocean Policy Francis W. Hoole 2019-03-12 Written in response to the increasing interest in the making of ocean policy, this collection of original articles surveys the history of U.S. ocean policy, ocean policy advocacy, and the struggle within government to determine how best to develop and implement a

sensible ocean policy. The increasing complexity of the issues, programs, and policies related to marine and coastal zone matters and the increasing number of government agencies and interest groups formed to deal with these matters reflect the growing awareness of their importance. But, reflect the editors, in an enormously complex world, where many interests are in conflict and where information is tentative and incomplete—yet often overwhelmingly abundant—there are few easy solutions to ocean policy problems.

From Needs Assessment to Action James W. Altschuld 2000 Through the use of real world examples drawn from various fields, the book provides in-depth procedures for: analyzing and combining different types of data collected in the needs assessment process, prioritizing needs, selecting solution strategies, designing and implementing solution strategies, and examining major multiple-method needs assessment studies."--BOOK JACKET.

New Methods and Applications in Multiple Attribute Decision Making (MADM) Alireza Alinezhad 2019-08-23 This book presents 27 methods of the Multiple Attribute Decision Making (MADM), which are not discussed in the existing books, nor studied in details, using more applications. Nowadays, decision making is one of the most important and fundamental tasks of management as an organizational goal achievement that depends on its quality. Decision making includes the correct expression of objectives, determining different and possible solutions, evaluating their feasibility, assessing the consequences, and the results of implementing each solution, and finally, selecting and implementing the solution. Multiple Criteria Decision Making (MCDM) is sum of the decision making techniques. MCDM is divided into the Multiple Objective Decision Making (MODM) for designing the best solution and MADM for selecting the best alternative. Given that the applications of MADM are mostly more than MODM, wide various techniques have been developed for MADM by researchers over the last 60 years, and the current book introduces some of the other new MADM methods.

Tools to Aid Environmental Decision Making Virginia H. Dale 1999 This book is unique in identifying and presenting tools to environmental decision-makers to help them improve the quality and clarity of their work. These tools range from software to policy approaches, and from environmental databases to focus groups. Equally of value to environmental managers, and students in environmental risk, policy, economics and law.

Construction Conflict Management and Resolution P. Fenn 2003-09-02 This book brings together over 40 papers presented at the 1992 International Construction Conflict Management & Resolution Conference held in Manchester, UK. Six themes are covered, including alternative dispute resolution, conflict management, claims procedures, litigation and arbitration, international construction, and education and the future. With papers from arbitrators, architects, barristers, civil engineers, chartered surveyors and solicitors, this book represents the first multi-disciplinary body of knowledge on Construction Conflict and will act as a unique source of reference for both legal and construction professionals.

Mathematical Models for Decision Making with Multiple Perspectives Maria Isabel Gomes 2022-08-04 This book brings together, in a single volume, the fields of multicriteria decision making and multiobjective optimization that are traditionally covered separately. Both fields have in common the presence of multiple perspectives of looking at and evaluating decisions to be taken but

they differ in the number of available alternatives. Multicriteria approaches deal with decision processes where a finite number of alternatives have to be evaluated while, in multiobjective optimization, this number is infinite and the space of alternatives continuous. This book is written for students of applied mathematics, engineering, and economics and management, with no assumed previous knowledge on the subject, as well as for practitioners in industry looking for techniques to support decision making. The mathematical formalism is very low, so that all materials are accessible to most readers. Nonetheless, a rich bibliography allows interested readers to access more technical literature. The textbook is organized in eleven chapters, each corresponding to a class of about two hours. A comprehensive set of examples is presented, allowing for a didactic approach when presenting the methodologies. Each chapter ends with exercises that are designed to develop problem-solving skills and to promote concepts retention.

Wildlife Management and Conservation Paul R. Krausman 2022-09-20 The definitive textbook for students of wildlife management, now updated to cover the latest techniques, tools, and topics. Wildlife Management and Conservation presents a clear overview of the management and conservation of animals, their habitats, and how people influence both. The relationship among these three components of wildlife management is explained in chapters written by leading experts and is designed to prepare students for careers in which they will be charged with maintaining healthy animal populations. To be successful wildlife professionals, they will need to find ways to restore depleted populations, reduce overabundant, introduced, or pest species, and manage relationships among various human stakeholders. This book gives them the basic knowledge necessary to accomplish these goals. This second edition, which is updated throughout, features several new and expanded topics, including communication in the wildlife profession, fire science, Indigenous models of management and conservation, plant–animal interactions, quantitative analysis of wildlife populations, and a detailed glossary. The book also covers: • Human dimensions of wildlife management • Animal behavior • Predator–prey relationships • Structured decision making • Issues of scale in wildlife management • Wildlife health • Historical context of wildlife management and conservation • Hunting and trapping • Nongame species • Nutrition ecology • Water management • Climate change • Conservation planning The most widely used foundational text in the field, this is the perfect resource not only for students but also for early career professionals and those in related fields who need to understand the core tenets and tools of wildlife conservation and management. Contributors: C. Jane Anderson, Bart M. Ballard, Warren B. Ballard, John A. Bissonette, Clint Boal, Scott B. Boyle, Leonard A. Brennan, Robert D. Brown, James W. Cain III, Tyler A. Campbell, Michael J. Cherry, Michael R. Conover, Daniel J. Decker, Randall W. DeYoung, Jonathan B. Dinkins, W. Sue Fairbanks, Selma N. Glasscock, James B. Grand, Michael J. Haney, James R. Heffelfinger, Scott E. Henke, Fidel Hernandez, Davie G. Hewitt, C. L. Hoving, David A. Jessup, Heather E. Johnson, Winifred B. Kessler, John L. Koprowski, Paul R. Krausman, William P. Kuvlesky, Jr., Roel R. Lopez, R. W. Mannan, Scott Mills, Michael S. Mitchell, Michael L. Morrison, Anna M. Muñoz, John F. Organ, Katherine L. Parker, William F. Porter, Shawn J. Riley, Steven S. Rosenstock, Michael C. Runge, Susan P. Rupp, William F. Siemer, Robert J. Steidl, Kelley M. Stewart

Information Reuse and Integration in Academia and Industry Tansel Özyer 2013-11-08 The present work covers the latest developments and discoveries related to information reuse and integration in academia and industrial settings. The need for dealing with the large volumes of data being produced

and stored in the last decades and the numerous systems developed to deal with these is increasingly necessary. Not all these developments could have been achieved without the investing large amounts of resources. Over time, new data sources evolve and data integration continues to be an essential and vital requirement. Furthermore, systems and products need to be revised to adapt new technologies and needs. Instead of building these from scratch, researchers in the academia and industry have realized the benefits of reusing existing components that have been well tested. While this trend avoids reinventing the wheel, it comes at the cost of finding the optimum set of existing components to be utilized and how they should be integrated together and with the new non-existing components which are to be developed. These nontrivial tasks have led to challenging research problems in the academia and industry. These issues are addressed in this book, which is intended to be a unique resource for researchers, developers and practitioners.

Algebraic Identification of Smart Systems Natalia A. Serdyukova 2020-08-20 This book is a continuation of our recently published book “Algebraic formalization of smart systems. Theory and practice.” It incorporates a new concept of quasi-fractal algebraic systems, based on A.I. Maltsev’s theory of algebraic systems and the theory of fractals developed by Benoit Mandelbrot, to investigate smart systems in more detail. The main tool used in the book, quasi-fractal algebraic systems, helps us to see smart systems in more detail by adding new factors, which e.g. make it possible to describe the previously indivisible elements of the initial model of factors. The techniques presented include fixed-point theorem, theorems of group theory, theory of Boolean algebras, and Erdös-Renyi algorithms. Given its focus, the book is intended for anyone interested in smart system theory.

Sustainability Impact Assessment of Land Use Changes Katharina Helming 2008-06-11 There are many reasons why strategic intelligence is required to support policy decisions. These primarily stem from the nature of today's kno- edge society with two contrasting trends. On the one hand, there is a trend of increasing human intelligence in the economic, social and political s- tems. On the other hand, there is a trend towards dissolving certainties about the problems and solutions of today's society. Clearly, more inf- mation does not necessary imply more certainties on how to act. What is more, the same facts are often interpreted in markedly different ways: the same policy relevant information can - and often does - results in confli- ing framing of a problem by different stakeholders. This is mainly due to competing assumptions, rather then because of inconsistent facts. The- fore, it is not surprising that policy-makers are calling for strategic intel- gence to support their understanding of today's challenges, including the relevant aspects of science and technology, their impact and their possible future developments. Over the last 15 years, Europe has rapidly adopted the practice of dev- oping and using Impact Assessment (IA) tools to support decision-making. Formal procedures and guidance for IA are well established within the European Commission and in most EU Member States. The adoption of IA procedures alone, however, does not guarantee that every policy domain is actually using the full potential of these assessment tools in the preparation of policies and legislation.

Proceedings of the Fourteenth International Conference on Management Science and Engineering Management Jiuping Xu 2020-06-22 This book gathers the proceedings of the 14th International Conference on Management Science and Engineering Management (ICMSEM 2020). Held at the Academy of Studies of Moldova from July 30 to August 2, 2020, the conference provided a platform for

researchers and practitioners in the field to share their ideas and experiences. Covering a wide range of topics, including hot management issues in engineering science, the book presents novel ideas and the latest research advances in the area of management science and engineering management. It includes both theoretical and practical studies of management science applied in computing methodology, highlighting advanced management concepts, and computing technologies for decision-making problems involving large, uncertain and unstructured data. The book also describes the changes and challenges relating to decision-making procedures at the dawn of the big data era, and discusses new technologies for analysis, capture, search, sharing, storage, transfer and visualization, and in the context of privacy violations, as well as advances in the integration of optimization, statistics and data mining. Given its scope, it will appeal to a wide readership, particularly those looking for new ideas and research directions.

Decision Support Systems and Intelligent Systems Efraim Turban 2005 A guide to management support system technologies, and how they can be used for better decision making. It focuses on Web-enabled tools, performance analysis, knowledge management, and other innovations.

Evaluation of Human Work, 3rd Edition John R. Wilson 2005-04-04 Completely revised and updated, Evaluation of Human Work is a compendium of ergonomics methods and techniques that is both broad and deep. The editors have once again brought together a team of world-renowned experts and created a forum for them to introduce their most valued techniques and methods. Almost every chapter has been revised and several new chapters have been added. See what's new in the Third Edition: Sociotechnical design of work systems Team design and evaluation Learning from failures through a joint cognitive systems perspective The Analysis of organizational processes Techniques in user-centered design Increased understanding of the nature of knowledge and knowledge management in contemporary systems Environment surveys Systems for near miss reporting and analysis The one thing that has remained unchanged from the first and second editions is that this text is produced NOT as a cookbook of ergonomics methods. The editor places ergonomics methodology in context, and each chapter carefully describes the background to method development in that area and the application of methods and tools. Exploring the topic of ergonomics/human factors from a 'doing it' perspective, the book serves as a guide to what ergonomics can offer industry, business, or human service professionals and a reference for practicing ergonomists.

Condition Monitoring and Diagnostic Engineering Management A. Starr 2001-09-14 This Proceedings contains the papers presented at the 14th International Conference on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2001), held in Manchester, UK, on 4-6 September 2001. COMADEM 2001 builds on the excellent reputation of previous conferences in this series, and is essential for anyone working in the field of condition monitoring and maintenance management. The scope of the conference is truly interdisciplinary. The Proceedings contains papers from six continents, written by experts in industry and academia the world over, bringing together the latest thoughts on topics including: Condition-based maintenance Reliability centred maintenance Asset management Industrial case studies Fault detection and diagnosis Prognostics Non-destructive evaluation Integrated diagnostics Vibration Oil and debris analysis Tribology Thermal techniques Risk assessment Structural health monitoring Sensor technology Advanced signal processing Neural networks Multivariate statistics Data compression and fusion This Proceedings also

contains a wealth of industrial case studies, and the latest developments in education, training and certification. For more information on COMADEM's aims and scope, please visit http://www.comadem.com

Standard Transport Appraisal Methods 2020-11-04 Standard Transport Appraisal Methods, Volume 6 in the Advances in Transport Policy and Planning series, assesses both successful and unsuccessful practices and policies from around the world. Chapters in this new release include Transport models, Cost-Benefit Analysis, Value of Travel Time Savings and reliability, Value of Statistical Life, Wider economic benefits, Multi-criteria analysis, Best-Worst Method, Participatory Value Evaluation, Ex-post evaluation, Sustainability assessment, Evaluating Transport Equity, Environmental Impact Assessment, Decision-Support Systems, Deliberative appraisal methods, Critique on appraisal methods, Appraisal methods in developing countries, Research agenda for appraisal methods, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Transport Policy and Planning series

Handbook of Irrigation System Selection for Semi-Arid Regions Mohammad Albaji 2020-07-22 The Handbook of Irrigation System Selection for Semi-Arid Regions compares the various types of available irrigation systems for different regions and conditions, and explains how to analyze field data to determine the suitability of the land for surface, sprinkle, or drip irrigation systems. The book focuses on strategies for irrigation development and management and examines deficit irrigation and partial root-zone drying systems. Also, solute leaching modeling under different irrigation systems, soil moisture conditions, and organic fertilizer application in arid areas are discussed. Further, it examines multi-criteria decision making for irrigation management and the appraisal of agricultural lands for irrigation in hot, sub-humid regions. Features: Presents comparative analysis to aid in the selection of the most appropriate types of irrigation systems according to land characteristics. Includes numerous practical case studies. Offers parametric evaluation systems for irrigation purposes. Considers data from semi-arid zones, each with different sub-climates. Focusing on semi-arid land, the book highlights parametric evaluation systems for irrigation purposes, along with the use of analytical hierarchy processes integrated with GIS to determine which systems are best suited. This comprehensive and well-illustrated handbook will be of great interest to students, professionals, and researchers involved with all aspects of irrigation in semi-arid regions.

Advances in Intelligent Decision Technologies Gloria Phillips-Wren 2010-07-19 Intelligent Decision Technologies (IDT) seeks an interchange of research on intelligent systems and intelligent technologies which enhance or improve decision making in industry, government and academia. The focus is interdisciplinary in nature, and includes research on all aspects of intelligent decision technologies, from fundamental development to the applied system. This volume represents leading research from the Second KES International Symposium on Intelligent Decision Technologies (KES IDT'10), hosted and organized by the Sellinger School of Business and Management, Loyola University Maryland, USA, in conjunction with KES International. The symposium was concerned with theory, design development, implementation, testing and evaluation of intelligent decision systems. Topics include decision making theory, intelligent agents, fuzzy logic, multi-agent systems, Bayesian networks, optimization, artificial neural networks, genetic algorithms, expert systems, decision support systems, geographic information systems, case-based

reasoning, time series, knowledge management systems, Kansei communication, rough sets, spatial decision analysis, and multi-criteria decision analysis. These technologies have the potential to revolutionize decision making in many areas of management, healthcare, international business, finance, accounting, marketing, military applications, ecommerce, network management, crisis response, building design, information retrieval, and disaster recovery.

Multi-Objective and Multi-Attribute Optimisation for Sustainable Development Decision Aiding Samarjit Kar 2019-09-20 Optimization is considered as a decision-making process for getting the most out of available resources for the best attainable results. Many real-world problems are multi-objective or multi-attribute problems that naturally involve several competing objectives that need to be optimized simultaneously, while respecting some constraints or involving selection among feasible discrete alternatives. In this Reprint of the Special Issue, 19 research papers co-authored by 88 researchers from 14 different countries explore aspects of multi-objective or multi-attribute modeling and optimization in crisp or uncertain environments by suggesting multiple-attribute decision-making (MADM) and multi-objective decision-making (MODM) approaches. The papers elaborate upon the approaches of state-of-the-art case studies in selected areas of applications related to sustainable development decision aiding in engineering and management, including construction, transportation, infrastructure development, production, and organization management.

Production and Operations Analysis Susmita Bandyopadhyay 2019-12-18 The aim of this book is to cover various aspects of the Production and Operations Analysis. Apart from the introduction to basic understanding of each topic, the book will also provide insights to various conventional techniques as well as, various other mathematical and nature-based techniques extracted from the existing literature. Concepts like smart factories, intelligent manufacturing, and various techniques of manufacturing will also be included. Various types of numerical examples will also be presented in each chapter and the descriptions will be done in lucid style with figures, point-wise descriptions, tables, pictures to facilitate easy understanding of the subject.

Using Multi-criteria Decision Analysis in Natural Resource Management Gamini Herath 2006 Providing useful insights on the use of Multi-Criteria Decision Analysis (MCDA) in natural resource management, this book examines a number of empirical applications for several countries and a variety of natural resources. This book gives in-depth analysis of the potential problems in applying MCDA techniques, including difficulties eliciting required information, lack of suitable measures for environmental variables and the need to develop innovative methods to simplify the use of MCDA.

The Measurement and Analysis of Housing Preference and Choice Sylvia J.T. Jansen 2011-05-12 What are the current trends in housing? Is my planned project commercially viable? What should be my marketing and advertisement strategies? These are just some of the questions real estate agents, landlords and developers ask researchers to answer. But to find the answers, researchers are faced with a wide variety of methods that measure housing preferences and choices. To select and value a valid research method, one needs a well-structured overview of the methods that are used in housing preference and housing choice research. This comprehensive introduction to this field offers just such an overview. It discusses and compares numerous methods, detailing the potential limitation of each one, and it reaches beyond methodology,

illustrating how thoughtful consideration of methods and techniques in research can help researchers and other professionals to deliver products and services that are more in line with residents' needs.

Multiattribute Evaluation Ward Edwards 1982-10 Ward Edwards and J. Robert Newman clearly explain Multiattribute Utility Technology (MAUT), a technique that facilitates decision making by identifying and weighting the objectives of the stakeholders in a specific decision.Learn more about "The Little Green Book" - QASS Series! Click Here

Environmental Security in Harbors and Coastal Areas Igor Linkov 2007-05-24 History has shown how powerful societies decline when natural resources are unable to be replenished. This book explores the challenges facing coastal areas during in the near future. It emphasizes beliefs that the convergence of seemingly disparate viewpoints and uncertain and limited information is possible only by using available risk assessment methodologies and decision-making tools such as multi-criteria decision analysis (MCDA).

Decision Analysis for Management Judgment Paul Goodwin 2014-05-12 Decision Analysis for Management Judgment is unique in its breadth of coverage of decision analysis methods. It covers both the psychological problems that are associated with unaided managerial decision making and the decision analysis methods designed to overcome them. It is presented and explained in a clear, straightforward manner without using mathematical notation. This latest edition has been fully revised and updated and includes a number of changes to reflect the latest developments in the field.

Tools for Making Acute Risk Decisions CCPS (Center for Chemical Process Safety) 2010-09-14 The complexity of today's risk decisions is well known. Beyond cost and risk there are many other factors contributing to these decisions, including type of risk (such as human injury or fatality), the economic impact on the local community, profitability, availability of capital, alternatives for reducing or eliminating the risk, costs of implementing alternatives, codes, standards, regulation, and good industry practice. This book presents a large range of decision aids for risk analysts and decision makers in industry so that vital decisions can be made in a more consistent, logical, and rigorous manner. Though primarily aimed at the process industry, this book can be used by anyone who makes similar decisions in other industries, including those in management science.

Weighting Methods and their Effects on Multi-Criteria Decision Making Model Outcomes in Water Resources Management Noorul Hassan Zardari 2014-10-30 This book provides a systematic way of how to make better decisions in water resources management. The applications of three weighting methods namely rating, ranking, and ratio are discussed in this book. Additionally, data mining on keywords is presented using three popular scholarly databases: Science Direct, Scopus, and SciVerse. Four abbreviated keywords (MCDM, MCDA, MCA, MADM) representing multi-criteria decision-making were used and these three databases were searched for different popular weighting methods for a period of 13 years (2000-2012). The book provides also a review of weighting methods applied in various multi-criteria decision-making (MCDM) methods and also presents survey results on priority ranking of watershed management criteria undertaken by 30 undergraduate and postgraduate students from the Faculty of Civil Engineering, Universiti Teknologi Malaysia.

Proceedings of the 21st International Symposium on Advancement of Construction Management and Real Estate K. W. Chau 2017-12-18 This book presents the proceedings of CRIOCM_2016, 21st International Conference on Advancement of Construction Management and Real Estate, sharing the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with the University of Hong Kong. Written by international academics and professionals, the proceedings discuss the latest achievements, research findings and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics, including building information modelling, big data, geographic information systems, housing policies, management of infrastructure projects, occupational health and safety, real estate finance and economics, urban planning, and sustainability, the discussions provide valuable insights into the implementation of advanced construction project management and the real estate market in China and abroad. The book is an outstanding reference resource for academics and professionals alike.

The Analytic Hierarchy Process in Natural Resource and Environmental Decision Making Daniel Schmoldt 2013-11-11 Decision making in land management involves preferential selection among competing alternatives. Often, such choices are difficult owing to the complexity of the decision context. Because the analytic hierarchy process (AHP, developed by Thomas Saaty in the 1970s) has been successfully applied to many complex planning, resource allocation, and priority setting problems in business, energy, health, marketing, natural resources, and transportation, more applications of the AHP in natural resources and environmental sciences are appearing regularly. This realization has prompted the authors to collect some of the important works in this area and present them as a single volume for managers and scholars. Because land management contains a somewhat unique set of features not found in other AHP application areas, such as site-specific decisions, group participation and collaboration, and incomplete scientific knowledge, this text fills a void in the literature on management science and decision analysis for forest resources.

Complex Systems Concurrent Engineering Geilson Loureiro 2007-08-10 This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering, held in São José dos Campos, São Paulo, Brazil, on the 16th - 20th of July 2007. It highlights the application of concurrent engineering to the development of complex systems.

Decision Making in the Manufacturing Environment Ravipudi Venkata Rao 2007-06-06 This book shows how graph theory and matrix approach, and fuzzy multiple attribute decision making methods can be used in manufacturing. It proposes a methodology that will make decision making in the manufacturing environment structured and systematic. The book uses case studies to present the applications of decision making methods in real manufacturing situations.

Innovations in Smart Cities Applications Edition 2 Mohamed Ben Ahmed 2019-02-06 This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan, Morocco on October 10-11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a

broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and researchers working in mobility, education, governance, energy, the environment and computer sciences.

Fuzzy Decision Making in Modeling and Control

Decision Support for Forest Management Annika Kangas 2015-10-27 This updated and expanded second edition adds the most recent advances in participatory planning approaches and methods, giving special emphasis to decision support tools usable under uncertainty. The new edition places emphasis on the selection of criteria and creating alternatives in practical multi-criteria decision making problems.

Decision Aids for Selection Problems David L. Olson 2012-12-06 One of the most important tasks faced by decision-makers in business and government is that of selection. Selection problems are challenging in that they require the balancing of multiple, often conflicting, criteria. In recent years, a number of interesting decision aids have become available to assist in such decisions. The aim of this book is to provide a comparative survey of many of the decision aids currently available. The first chapters present general ideas which underpin the methodologies used to design these aids. Subsequent chapters then focus on specific decision aids and demonstrate some of the software which implement these ideas. A final chapter provides a comparative analysis of their strengths and weaknesses.

Management of Information Systems Maria Pomffyova 2018-10-24 Management functions were developed first as a systematic step to carry out management activities, while implementation of the information components followed as part of management elements. The authors point out that the use of the possibilities and advantages of quantitatively supported managerial decisions gives managers the ability to quantify the impacts of both technical (hard) and subjective (soft) constraints and improve managerial decision-making processes that would otherwise be based mostly on personal intuition and experience. To achieve the goals and benefits of excellent performance, it is necessary to design and develop integrated models that would coordinate management functions and information system components as an integrated process. These facts are presented in various case studies.