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Readings in Multiple Criteria Decision Aid

Springer Science & Business Media **Multiple Criteria Decision Aid** is a field which has seen important developments in the last few years. This is not only illustrated by the increasing number of papers and communications in the scientific journals and Congresses, but also by the activities of several international working groups. In 1983, a first Summer School was organised at Catania (Sicily) to promote multicriteria decision-aid in companies and to encourage specialists to exchange didactic material. The second School was held in Narnur (Belgium) and I am pleased now to present the selected readings from the "Third International Summer School on Multicriteria Decision Aid: Methods, Applications and Software", which took place in Monte Estoril (Portugal), in 1988. was the quality of the contributions presented by the Such during the Summer School that I have decided to take lecturers advantage of this opportunity to produce a more carefully prepared and homogeneous book rather than a simple volume of proceedings. All the initial versions of the selected papers were revised and some, although not included in the programme of the School, were written in order to give a more complete overview of the MCDA field.

Readings in Multiple Criteria Decision Aid

Financial Decision Aid Using Multiple Criteria

Recent Models and Applications

Springer This volume highlights recent applications of multiple-criteria decision-making (MCDM) models in the field of finance. Covering a wide range of MCDM approaches, including multiobjective optimization, goal programming, value-based models, outranking techniques, and fuzzy models, it provides researchers and practitioners with a set of MCDM methodologies and empirical results in areas such as portfolio management, investment appraisal, banking, and corporate finance, among others. The book addresses issues related to problem structuring and modeling, solution techniques, comparative analyses, as well as combinations of MCDM models with other analytical methodologies.

Electre and Decision Support

Methods and Applications in Engineering and

Infrastructure Investment

Springer Science & Business Media **ELECTRE and Decision Support** focuses on the areas of engineering and infrastructure investment. It begins with some general comments about the different decision components within the project planning process - the definition of objectives, the identification of alternative courses of action, the establishing of criteria, the evaluation of alternatives and the final recommendation. The authors highlight the ability of Multicriteria Decision Aid to reconcile the economic, technical and environmental dimensions of the projects for its planners. They emphasize the complexity of this process, illustrating the importance of identifying the stakeholders within it, as they greatly influence the definition of the decision criteria. A brief case study illustrates these different aspects. Following a comparison of Cost Benefit Analysis and Multicriteria Decision Aid, the introductory chapter sets out the structure of the book, with four subsequent chapters devoted to the methodology of ELECTRE and three outlining case studies involving different versions of ELECTRE. The chapters concentrating on the ELECTRE methodology first give an overview of the main MCDA methods before presenting the ELECTRE method in detail. Each chapter answers the following questions: (1) In what context should the ELECTRE methods be chosen? (2) Which version of the methods is most appropriate to apply to a given problem? Another chapter deals with a critical and delicate problem within MCDA - how to adequately assess the role played by each criterion in a given decision problem, and how this translates into

an appropriate weighting for it. Each one covers a different civil engineering discipline and each uses a different version of ELECTRE. The final chapter on methodology presents some accessories which, when used with ELECTRE, can greatly enhance its usefulness in practice. This book is outstanding in many respects. I am convinced that the simple, clear and concise style of the authors will make this book accessible to very many readers. No important aspect of the subject is neglected, and the concise nature of this book does not hinder its originality. Last but not least, the manner in which the case studies are described allows the authors not only to demonstrate the validity of the approach and procedures presented, but also to help the reader understand how to apply them in an effective manner. Taken from the Foreword by Bernard Roy, University Paris-Dauphine

Advanced Methods for Decision Making and Risk Management in Sustainability Science

Nova Publishers Understanding sustainability is vital to resolving and managing many of today's problems, on a global as well as local scale. Sustainability science is an emerging field of research that comprises concepts and methodologies from different disciplines in a problem-oriented manner. Research efforts are often concentrated in a variety of sectoral domains. The heterogeneity of scientific tasks involved here and the complexity of environmental and social systems call for specific research strategies which are generally a compromise between high-precision analysis and educated guesswork. For understanding of global change, which embraces a variety of processes on several scales, information needs to be refined and compressed rather than amplified. This book aims at presenting advanced methods and techniques to make them available to a wider scientific community involved in global change and sustainability research. The contributions describe novel schemes to study the relationship between the socio-economic and the natural sphere and/or the social dimensions of climate and global change. The methodological approaches can be useful in the design and management of environmental systems, for policy development, environmental risk reduction, and prevention/mitigation strategies. In this context, a variety of environmental and sustainability aspects can be addressed, e.g. changes in the natural environment and land use, environmental impacts on human health, economics and technology, institutional interactions, human activities and behaviour.

Web-Based Green Products Life Cycle Management Systems: Reverse Supply Chain Utilization

Reverse Supply Chain Utilization

IGI Global Provides a review of current and potential research in green management and control.

Multiobjective Decision Support for Environmental Management

Springer Science & Business Media Multiple criteria decision making is a major and rapidly growing field of research. Methods resulting from this field of research are used in this book to develop a Multiobjective Decision Support Systems (MODSS) for environmental management. The primary focus of the book is therefore on the issues and practicalities that arise when these methods are applied to support decisions on environmental problems. Most methods included in this book are derived from the literature on multicriteria decision making, decision analysis and operations research. Concepts developed in management science are used to describe environmental decision processes and to define the functions of decision support. The author's work on MODSS has resulted in the development of a decision support package, called DEFINITE (DECisions on a FINITE set of alternatives). A demonstration version of this programme is included with the book. This Demo Disk can be run on a MS-DOS compatible personal computer (version 2.0 or higher) having a 3,5 inch, 720 Kb disk drive and 640 Kb available RAM.

Multicriteria Methodology for Decision Aiding

Springer Science & Business Media axiomatic results should be at the heart of such a science. Through them, we should be able to enlighten and scientifically assist decision-making processes especially by: - making that which is objective stand out more clearly from that which is less objective; - separating robust from fragile conclusions; - dissipating certain forms of misunderstanding in communication; - avoiding the pitfall of illusory reasoning; - emphasizing, once they are understood, incontrovertible results. The difficulties I encountered at the beginning of my career as an operations researcher, and later as a consultant, made me realize that there were some limitations on objectivity in decision-aiding. In my opinion, five major aspects must be taken into consideration: 1) The borderline (or frontier) between what is and what is not feasible is often fuzzy. Moreover, this borderline is frequently modified in light of what is found from the study itself. 2) In many real-world problems, the "decision maker D" does not really exist as a person truly able to make a decision. Usually, several people (actors or stakeholders) take part in the decision process, and it is important not to confuse the one who ratifies a decision with the so-called decision maker in the decision ai

ding process. This decision maker is in fact the person or the set of persons for whom or in the name of whom decision aiding effort is provided.

Intelligent Decision and Policy Making Support Systems

Springer This edited book reports recent research results and provides a state-of-the-art on intelligent decision support systems applications, lessons learned and future research directions. The book covers a balanced mixture of theory and practice, including new methods and developments of intelligent decision support systems applications in Society and Policy Support. Its main objective is to gather a peer-reviewed collection of high quality contributions in the relevant topic areas.

Encyclopedia of Optimization

Springer Science & Business Media The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research, the richness of ideas, and the breadth of applications that has come from this field. The second edition builds on the success of the former edition with more than 150 completely new entries, designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced. Particularly heavy attention resulted in health science and transportation, with entries such as "Algorithms for Genomics", "Optimization and Radiotherapy Treatment Design", and "Crew Scheduling".

Collective Decisions: Theory, Algorithms And Decision Support Systems

Springer Nature

Multicriteria Analysis

Proceedings of the XIth International Conference on MCDM, 1-6 August 1994, Coimbra, Portugal

Springer Science & Business Media J. Climaco and C. H. Antunes After the pleasure which has been to host the community of researchers and practitioners in the area of multicriteria analysis (MA) in Coimbra in August 1994, this volume of proceedings based on the papers presented at the conference is the last step of that venture. Even though this may not be the appropriate place we cannot resist, however, the temptation to express herein some brief feelings about the conference. Almost everything concerning the conference organisation has been "handcrafted" by a small number of people, with the advantages and disadvantages that this approach generates. Our first word of acknowledgement is of course due to those who have had a permanent and active role in the multiple aspects which make the success of a conference: Maria Joao Alves, Carlos Henggeler Antunes (who is a co author of this introduction since he has closely collaborated with me in the scientific programme), Joao Paulo Costa, Luis Dias (who greatly contributed to the organisation of this volume) and Paulo Melo, as well as Leonor Dias, from the Faculty of Economics, who has shown an outstanding dedication. To those who collaborated with the organisers in the framework of their professional activity, special thanks due to Adelina whose dedication greatly exceeded her duties. As you probably know from your own experience every small detail of the conference organisation required a lot of "sweating", but the atmosphere of joy and friendship then generated has been a generous "pay-off".

Stochastic Versus Fuzzy Approaches to Multiobjective Mathematical Programming under Uncertainty

Springer Science & Business Media Operations Research is a field whose major contribution has been to propose a rigorous formulation of often ill-defined problems pertaining to the organization or the design of large scale systems, such as resource allocation problems, scheduling and the like. While this effort did help a lot in understanding the nature of these problems, the mathematical models have proved only partially satisfactory due to the difficulty in gathering precise data, and in formulating objective functions that reflect the multi-faceted notion of optimal solution according to human experts. In this respect linear programming is a typical example of impressive achievement of Operations Research, that in its deterministic form is not always adapted to real world decision-making : everything must be expressed in terms of linear constraints ; yet the coefficients that appear in these constraints may not be so well-defined, either because their value depends upon other parameters (not accounted for in the model) or because they cannot be precisely assessed, and only qualitative estimates of these coefficients are available. Similarly the best solution to a linear programming problem may be more a matter of compromise between various criteria rather than just minimizing or maximizing a linear objective function. Lastly the constraints, expressed by equalities or inequalities between linear expressions, are often softer in reality than what their mathematical expression might let us believe,

and infeasibility as detected by the linear programming techniques can often be coped with by making trade-offs with the real world.

Computational Science and Its Applications – ICCSA 2017 17th International Conference, Trieste, Italy, July 3-6, 2017, Proceedings, Part III

Springer The six-volume set LNCS 10404-10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications, ICCSA 2017, held in Trieste, Italy, in July 2017. The 313 full papers and 12 short papers included in the 6-volume proceedings set were carefully reviewed and selected from 1052 submissions. Apart from the general tracks, ICCSA 2017 included 43 international workshops in various areas of computational sciences, ranging from computational science technologies to specific areas of computational sciences, such as computer graphics and virtual reality. Furthermore, this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering. The program also featured 3 keynote speeches and 4 tutorials.

Strategic Supply Chain Management in Process Industries

An Application to Specialty Chemicals Production Network Design

Springer Science & Business Media Practitioners in process industry have to increasingly adapt their global production networks to changes in the competitive environment. A majority of the supply network design models proposed by academia do not sufficiently capture the questions that have to be resolved. This book provides the necessary operations research decision support tools. It builds on an example of the specialty chemicals industry.

Operations Research and Management Science Handbook

CRC Press Operations Research (OR) began as an interdisciplinary activity to solve complex military problems during World War II. Utilizing principles from mathematics, engineering, business, computer science, economics, and statistics, OR has developed into a full fledged academic discipline with practical application in business, industry, government and military. Currently regarded as a body of established mathematical models and methods essential to solving complicated management issues, OR provides quantitative analysis of problems from which managers can make objective decisions. Operations Research and Management Science (OR/MS) methodologies continue to flourish in numerous decision making fields. Featuring a mix of international authors, Operations Research and Management Science Handbook combines OR/MS models, methods, and applications into one comprehensive, yet concise volume. The first resource to reach for when confronting OR/MS difficulties, this text - Provides a single source guide in OR/MS Bridges theory and practice Covers all topics relevant to OR/MS Offers a quick reference guide for students, researchers and practitioners Contains unified and up-to-date coverage designed and edited with non-experts in mind Discusses software availability for all OR/MS techniques Includes contributions from a mix of domestic and international experts The 26 chapters in the handbook are divided into two parts. Part I contains 14 chapters that cover the fundamental OR/MS models and methods. Each chapter gives an overview of a particular OR/MS model, its solution methods and illustrates successful applications. Part II of the handbook contains 11 chapters discussing the OR/MS applications in specific areas. They include airlines, e-commerce, energy systems, finance, military, production systems, project management, quality control, reliability, supply chain management and water resources. Part II ends with a chapter on the future of OR/MS applications.

Operations Research Methodologies

CRC Press A single source guide to operations research (OR) techniques, this book covers emerging OR methodologies in a clear, concise, and unified manner. Building a bridge between theory and practice, it begins with coverage of fundamental models and methods such as linear, nonlinear, integer, and dynamic programming, networks, simulation, queuing, inventory, stochastic processes, and decision analysis. The book then explores emerging techniques including multiple criteria optimization, meta heuristics, robust optimization, and complexity and large scale networks. Each chapter gives an overview of a particular methodology, illustrates successful applications, and provides references to computer software availability.

Intelligent Decision Technology Support in Practice

Springer This book contains a collection of innovative chapters emanating from topics raised during the 5th KES International Conference on Intelligent Decision Technologies (IDT), held during 2013 at Sesimbra, Portugal. The authors were invited to expand their original papers into a plethora of innovative chapters espousing IDT methodologies and applications. This book documents leading-edge contributions, representing advances in Knowledge-Based and Intelligent Information and Engineering System. It acknowledges that researchers recognize that society is familiar with modern Advanced Information Processing and increasingly expect richer IDT systems. Each chapter concentrates on the theory, design, development, implementation, testing or evaluation of IDT techniques or applications. Anyone that wants to work with IDT or simply process knowledge should consider reading one or more chapters and focus on their technique of choice. Most readers will benefit from reading additional chapters to access alternative technique that often represent alternative approaches. This book is suitable for anyone interested in or already working with IDT or Intelligent Decision Support Systems. It is also suitable for students and researchers seeking to learn more about modern Artificial Intelligence and Computational Intelligence techniques that support decision-making in modern computer systems.

Nonlinear Multiobjective Optimization

Springer Science & Business Media Problems with multiple objectives and criteria are generally known as multiple criteria optimization or multiple criteria decision-making (MCDM) problems. So far, these types of problems have typically been modelled and solved by means of linear programming. However, many real-life phenomena are of a nonlinear nature, which is why we need tools for nonlinear programming capable of handling several conflicting or incommensurable objectives. In this case, methods of traditional single objective optimization and linear programming are not enough; we need new ways of thinking, new concepts, and new methods - nonlinear multiobjective optimization. Nonlinear Multiobjective Optimization provides an extensive, up-to-date, self-contained and consistent survey, review of the literature and of the state of the art on nonlinear (deterministic) multiobjective optimization, its methods, its theory and its background. The amount of literature on multiobjective optimization is immense. The treatment in this book is based on approximately 1500 publications in English printed mainly after the year 1980. Problems related to real-life applications often contain irregularities and nonsmoothnesses. The treatment of nondifferentiable multiobjective optimization in the literature is rather rare. For this reason, this book contains material about the possibilities, background, theory and methods of nondifferentiable multiobjective optimization as well. This book is intended for both researchers and students in the areas of (applied) mathematics, engineering, economics, operations research and management science; it is meant for both professionals and practitioners in many different fields of application. The intention has been to provide a consistent summary that may help in selecting an appropriate method for the problem to be solved. It is hoped the extensive bibliography will be of value to researchers.

Economic Impacts of Intelligent Transportation Systems

Innovations and Case Studies

Elsevier There are unique complexities associated with the economic valuation of Intelligent Transportation Systems (ITS) and telematics. Traditional methods of quantitative analysis may not be appropriate in accurately and reliably assessing the economic impacts of these technologies. Although advanced transportation and related technologies are being planned and deployed at an increasingly rapid pace, many of the technologies are still relatively new, and their use may not be widespread. Much of the initial information and statistics gathered have been anecdotal and have focused more on benefits rather than costs. Therefore, difficulties arise due to the lack of historical data and 'lessons learned' from which to draw upon. In addition, compared with traditional transportation infrastructure, ITS technologies have different life cycles, cost structures, and a number of interrelated elements. This book addresses these concerns and proposes new economic assessment techniques as well as modifications to existing ones. Included are case studies from a multitude of North American, European, and Asian nations and major metropolitan areas covering a wide range of ITS technologies including freeway management, electronic toll collection, advanced driver assistance systems, and traveller information systems.

Groupware: Design, Implementation, and Use

8th International Workshop, CRIWG 2002, La Serena, Chile, 1.-4. September 2002, Proceedings

Springer Welcome to the 8th International Workshop on Groupware (CRIWG 2002)! The previous workshops took place in Lisbon, Portugal (1995), Puerto Varas, Chile (1996), El Escorial, Spain (1997), Búzios, Brazil (1998), Cancun, Mexico (1999), Madeira, Portugal (2000), and Darmstadt, Germany (2001). CRIWG workshops follow a simple recipe for success: good papers, a small number of participants, extensive time for lively and constructive discussions, and a

high level of cooperation both within and between paper sessions. CRIWG 2002 continued this tradition. CRIWG 2002 attracted 36 submissions from 13 countries, nine of them outside Ibero-America. Each of the 36 articles submitted was reviewed by at least three members of an internationally renowned Program Committee. This year we used a double-blind reviewing process, i. e. , the reviewers did not know who the authors of the papers were. In addition, the reviewers were chosen based on their expertise and we also ensured that they came from countries and institutions not related to those of the paper's authors. This reviewer assignment worked remarkably well, as indicated by the high average confidence value the reviewers gave their own reviews. This means that papers were usually reviewed by experts in the paper's topic. As a consequence, reviews were usually quite extensive and contained many suggestions for - provements. I would like to thank all the members of the Program Committee for their hard work, which I am sure contributed to improving the quality of the final articles.

Social Multi-Criteria Evaluation for a Sustainable Economy

Springer Science & Business Media One of the main novelties of this book is its establishment of a clear relationship between social and public choice on one hand and multiple criteria decision analysis on the other. This relationship leads to the new concept of Social Multi-Criteria Evaluation (SMCE). SMCE is proposed as a policy framework to integrate different scientific languages, for example, when concerns about civil society and future generations have to be considered along with policy imperatives and market conditions.

Alternatives for Environmental Valuation

Routledge How can we value the environment, this is the crucial issue that this book debates. The critical analyses carried out within the book by such figures as Nick Hanley and Jonathan Aldred are vital to ensuring that future economic growth is not achieved at the expense of our environment.

Value Functions for Environmental Management

Springer Science & Business Media 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.

Multiple Criteria Decision Methods and Applications

Selected Readings of the First International Summer School Acireale, Sicily, September 1983

Springer Science & Business Media Both the 'First International Summer School on Multiple Criteria Decision Making Methods, Applications and Software' and the present volume of readings could only be realised with assistance and support from many sides. We would like to express our gratitude to all those who have contributed to making a success of the first of a hopefully long series of summer schools in this field and to all those who have contribut. ed to the present volume. First of all we are grateful for the financial means supplied by a long list of sponsors, the most important of which are mentioned on the copyright page. Next, we are grateful to the members of the organising committee, Anna Ostanello and Giovanni Zambruno. Since this is the first of what will become a series of summer schools, the chairman of the organising committee, Benedetto Matarazzo, will start this volume with a brief account of the school held in Acireale. The programme committee consisted of Jean Fichet, Anna Ostanello, Bernard Roy, Jaap Spronk (chairman) and Stanley Zionts. Their valuable contribu tion is gratefully acknowledged, as is the contribution of all the lecturers at the school. Of course, a school is not only made by its teachers, but just as much by its students. The primary aim of a school is to teach and to stimulate the students.

Advanced Concepts, Methodologies and Technologies for Transportation and Logistics

Springer This book is a collection of original papers produced by the members of the Euro Working Group on Transportation (EWGT) in the last several years (2015-2017). The respective chapters present the results of various research projects carried out by the members of the EWGT and extended versions of presentations given at the last several meetings of the EWGT. The book offers a representative sampling of the EWGT's research activities and covers the state-of-the-art in quantitative oriented transportation/logistics research. It highlights a range of advanced concepts, methodologies and technologies, divided into four major thematic streams: Multiple Criteria Analysis in Transportation and Logistics; Urban Transportation and City Logistics; Road Safety and Artificial Intelligence and Soft Computing in Transportation and Logistics. The book is intended for academics/researchers, analysts, business consultants, and graduate students who are interested in advanced techniques of mathematical modeling and computational procedures applied in transportation and logistics.

Multicriteria and Clustering

Classification Techniques in Agrifood and Environment

Springer This book provides an introduction to operational research methods and their application in the agrifood and environmental sectors. It explains the need for multicriteria decision analysis and teaches users how to use recent advances in multicriteria and clustering classification techniques in practice. Further, it presents some of the most common methodologies for statistical analysis and mathematical modeling, and discusses in detail ten examples that explain and show "hands-on" how operational research can be used in key decision-making processes at enterprises in the agricultural food and environmental industries. As such, the book offers a valuable resource especially well suited as a textbook for postgraduate courses.

Advances in Systems Science

Proceedings of the International Conference on Systems Science 2016 (ICSS 2016)

Springer This book gathers the carefully reviewed proceedings of the 19th International Conference on Systems Science, presenting recent research findings in the areas of Artificial Intelligence, Machine Learning, Communication/Networking and Information Technology, Control Theory, Decision Support, Image Processing and Computer Vision, Optimization Techniques, Pattern Recognition, Robotics, Service Science, Web-based Services, Uncertain Systems and Transportation Systems. The International Conference on Systems Science was held in Wroclaw, Poland from September 7 to 9, 2016, and addressed a range of topics, including systems theory, control theory, machine learning, artificial intelligence, signal processing, communication and information technologies, transportation systems, multi-robotic systems and uncertain systems, as well as their applications. The aim of the conference is to provide a platform for communication between young and established researchers and practitioners, fostering future joint research in systems science.

Multicriteria Evaluation in a Fuzzy Environment

Theory and Applications in Ecological Economics

Springer Science & Business Media This book is the result of some years of research carried out at the Vrije Universiteit of Amsterdam and at the Joint Research Centre of the European Commission. The awareness of actual and potential conflicts between economic progress in production, consumption, and technology and the environment has led to the concept of "sustainable development", implying that economic and ecological values are well balanced in evaluation and decision making. The linkages between ecosystems and economic systems are the focus of ecological economics. In ecological economics, a multidimensional approach to economic and policy-making is emphasised. In this book, the introduction of multicriteria decision aid techniques in the framework of ecological economics is widely discussed. Since such techniques are based on a "constructive" rationality and allow one to take into account conflictual, multidimensional, incommensurable and uncertain effects of decisions, they can be considered perfectly consistent with the methodological foundations of ecological economics. Since here the assumption is accepted that efficiency, equity and sustainability are the three conflictual values of economics, a mathematical procedure able to deal with these issues in an operational framework is developed, with a particular view on imprecise information in a practical environmental planning context. Given the problem of the differences in the measurement levels of the variables used for economic-ecological modelling, multicriteria methods able to deal with mixed information (both qualitative and

quantitative measurements) can be considered particularly useful. Another problem related to the available information concerns the uncertainty (stochastic and/or fuzzy) contained in this information.

Rough Set and Knowledge Technology

6th International Conference, RSKT 2011, Banff, Canada, October 9-12, 2011, Proceedings

Springer This book constitutes the refereed proceedings of the 6th International Conference on Rough Sets and Knowledge Technology, RSKT 2011, held in Banff, Canada, in September 2011. The 89 revised full papers presented together with 3 keynote lectures and 1 invited tutorial session were carefully reviewed and selected from 229 submissions. The papers are organized in topical sections on attribute reduction and feature selection, generalized rough set models, machine learning with rough and hybrid techniques, knowledge technology and intelligent systems and applications.

Regional Sustainability

Applied Ecological Economics Bridging the Gap Between Natural and Social Sciences

Springer Science & Business Media This book presents interdisciplinary approaches towards achieving regional sustainability. The relevance of interdisciplinary research and its consequences for economic research into the environment are elaborated, and new approaches are developed to integrate knowledge from ecological and social sciences into economic research. Regional Sustainability includes the development of theoretical concepts as well as applied regional case studies relating to nature conservation and agricultural policies, coastal management and air pollution problems. Centered around the themes of decision-making processes, modelling as support for policy analysis and the evaluation of policies, it successfully addresses problems facing researchers and policy-makers in the context of regional sustainable development. The book pays special attention to human behaviour and stakeholders in decision-making processes, and contributes to the transition from ecological economics to socio-ecological economics.

Intelligent Decision Technologies

Proceedings of the 5th KES International Conference on Intelligent Decision Technologies (KES-IDT 2013)

IOS Press The field of intelligent decision technologies is interdisciplinary in nature, bridging computer science with its development of artificial intelligence, information systems with its development of decision support systems, and engineering with its development of systems. This book presents the 45 papers accepted for presentation at the 5th KES International Conference on Intelligent Decision Technologies (KES-IDT 2013), held in Sesimbra, Portugal, in June 2013. The conference consists of keynote talks, oral and poster presentations, invited sessions and workshops on the applications and theory of intelligent decision systems and related areas. The conference provides an opportunity for the presentation and discussion of interesting new research results, promoting knowledge transfer and the generation of new ideas. The book will be of interest to all those whose work involves the development and application of intelligent decision systems.

Investment Appraisal

Methods and Models

Springer Science & Business Media This book presents a range of investment appraisal methods and models to help readers make good investment decisions. Each approach is thoroughly described, evaluated, and illustrated using examples, with its assumptions and limitations analyzed in terms of their implications for investment decision-making practice. Getting investment decisions right is crucial but due to a complex and dynamic business environment this remains a challenging management task.

Challenges of Urban Mobility, Transport Companies and Systems

2018 TranSopot Conference

Springer This proceedings volume examines individual city transports, transport companies and entire transport systems. Featuring select contributions presented at the 2018 TranSopot Conference in Sopot, Poland, this book provides an analysis of transportation solutions both at the micro-level (single city or single company) as well as the macro-level (whole transportation systems). The enclosed research and case studies provide a theoretical background for transport analysis but also new innovative and sustainable solutions to transportation while also increasing the efficiency of transport operations. Transportation is a very specific area of social and economic life. It creates countless opportunities and fulfills the need for mobility while also generating significant cost—direct for the company or indirect to societies. Planning and organizing transport is a task which requires a multi-level approach with a focus on operational, ecological and financial aspects. At a time in which many transport systems are unable to grow extensively due to lack of space or increased cost, these activities are even more crucial. The enclosed research from researchers, scholars and practitioners provides not only new theories but also empirical data and practical experience. The TranSopot 2018 conference is a continuation of a long series of conferences devoted to the topic of transport sector development. The goal of the conference is to exchange current trends and spread the results of current research into the fields of transport growth, development and management.

Smart and Green Solutions for Transport Systems

16th Scientific and Technical Conference "Transport Systems. Theory and Practice 2019" Selected Papers

Springer Nature This proceedings book gathers selected papers presented at the 16th Scientific and Technical Conference "Transport Systems. Theory and Practice", organised by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology. The conference was held on 16-18 September 2019 in Katowice (Poland). More details at www.TSTP.polsl.pl Which of the multi-criteria methods should be applied to support decision-making processes while tackling problems of sustainable transport solutions? How can individual issues encountered when implementing smart solutions in transport systems be solved? What advanced tools can be used to assess the current condition of selected elements of transport systems (both in terms of transport infrastructure and traffic streams)? What data concerning transport processes can be collected automatically and how can we use it? What is the right approach to the problem of the development of the spatial planning of transport systems? This book provides the answers to these and many other questions. It also includes a wealth of numerical analyses based on significant data sets, illustrating the close affiliation between smart transport systems and environment-friendly solutions. The book primarily addresses the needs of three target groups: • Scientists and researchers (ITS field) • Those working for local authorities (responsible for the transport systems at the urban and regional levels) • Representatives of business (traffic strategy management) and industry (manufacturers of ITS components).

Rough Sets and Current Trends in Computing

5th International Conference, RSCTC 2006, Kobe, Japan, November 6-8, 2006, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the 5th International Conference on Rough Sets and Current Trends in Computing, RSCTC 2006, held in Kobe, Japan in November 2006. The 91 revised full papers presented together with five invited papers and two commemorative papers were carefully reviewed and selected from 332 submissions.

Environmental Economics for Non-Economists

World Scientific Publishing Company With the rise in the significance of environmental issues, many professionals and students outside the discipline of economics have taken an interest in environmental economics. However, there are few publications that cater for this type of reader. The invaluable textbook is targeted at a broad range of disciplines, including engineering, business, forestry and agriculture. The following characteristics set the book apart from others: it does not assume a previous knowledge of economics; it deals with global environmental problems, with emphasis on

Third World environmental issues; it includes material on the emerging discipline of ecological economics; and it incorporates simple spreadsheet-based examples and exercises to reinforce the concepts taught. Request Inspection Copy

Intelligent Support Systems for Marketing Decisions

Springer Science & Business Media **Intelligent Support Systems for Marketing Decisions** examines new product development, market penetration strategies, and other marketing decisions utilizing a confluence of methods, including Decision Support Systems (DSS), Artificial Intelligence in Marketing and Multicriteria Analysis. The authors systematically examine the use and implementation of these methodologies in making strategic marketing decisions. Part I discusses the basic concepts of multicriteria analysis vis-à-vis marketing decisions and in new product development situations. Part II presents basic concepts from the fields of Information Systems, Decision Support Systems, and Intelligent Decision Support Methods. In addition, specialized categories of DSS (multicriteria DSS, web-based DSS, group DSS, spatial DSS) are discussed in terms of their key features and current use in marketing applications. Part III presents IDSS and a multicriteria methodology for new product development. Further chapters present a developmental strategy for analyzing, designing, and implementing an Intelligent Marketing Decision Support System. The implementation discussion is illustrated with a real-world example of the methods and system in use.

Evolutionary Multi-Criterion Optimization

First International Conference, EMO 2001, Zurich, Switzerland, March 7-9, 2001 Proceedings

Springer This book constitutes the refereed proceedings of the First International Conference on Multi-Criterion Optimization, EMO 2001, held in Zurich, Switzerland in March 2001. The 45 revised full papers presented were carefully reviewed and selected from a total of 87 submissions. Also included are two tutorial surveys and two invited papers. The book is organized in topical sections on algorithm improvements, performance assessment and comparison, constraint handling and problem decomposition, uncertainty and noise, hybrid and alternative methods, scheduling, and applications of multi-objective optimization in a variety of fields.

Intelligent Information and Database Systems

8th Asian Conference, ACIIDS 2016, Da Nang, Vietnam, March 14-16, 2016, Proceedings, Part I

Springer The two-volume proceedings of the ACIIDS 2016 conference, LNAI 9621 + 9622, constitutes the refereed proceedings of the 8th Asian Conference on Intelligent Information and Database Systems, held in Da Nang, Vietnam, in March 2016. The total of 153 full papers accepted for publication in these proceedings was carefully reviewed and selected from 392 submissions. They were organized in topical sections named: knowledge engineering and semantic Web; social networks and recommender systems; text processing and information retrieval; database systems and software engineering; intelligent information systems; decision support and control systems; machine learning and data mining; computer vision techniques; intelligent big data exploitation; cloud and network computing; multiple model approach to machine learning; advanced data mining techniques and applications; computational intelligence in data mining for complex problems; collective intelligence for service innovation, technology opportunity, e-learning, and fuzzy intelligent systems; analysis for image, video and motion data in life sciences; real world applications in engineering and technology; ontology-based software development; intelligent and context systems; modeling and optimization techniques in information systems, database systems and industrial systems; smart pattern processing for sports; and intelligent services for smart cities.