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The British National Bibliography IGI Global

This book constitutes the thoroughly refereed conference proceedings of the 9th International Conference on Rough Sets and Knowledge Technology, RSKT 2014, held in Shanghai, China, in October 2014. The 70 papers presented were carefully reviewed and selected from 162 submissions. The papers in this volume cover topics such as foundations and generalizations of rough sets, attribute reduction and feature selection, applications of rough sets, intelligent systems and applications, knowledge technology, domain-oriented data-driven data mining, uncertainty in granular computing, advances in granular computing, big data to wise decisions, rough set theory, and three-way decisions, uncertainty, and granular computing. [Computational Intelligence and Mathematics for Tackling Complex Problems 2](#) Springer Science & Business Media

This book contains contributions by some of the leading researchers in the area of grey systems theory and applications. All the papers included in this volume are selected from the contributions physically presented at the 2009 IEEE International Conference on Grey Systems and Intelligent Services, November 11 – 12, 2009, Nanjing, Jiangsu, People’s Republic of China. This event was jointly sponsored by IEEE Systems, Man, and Cybernetics Society, Natural Science Foundation of China, and Grey Systems Society of China. Additionally, Nanjing University of Aeronautics and Astronautics also invested heavily in this event with its direct and indirect financial and administrative supports. The conference aimed at bringing together all scholars and experts in the fields of grey systems and intelligent services from around the world to share their cutting edge research results, exchange innovative ideas, promote mutual understanding, and seek potential opportunities for collaboration. The conference program committee received 1054 full paper submissions from 16 countries and geographical regions. Nine hundred sixty four papers were submitted for regular sessions and 90 papers were tunnelled directly for special topic sessions. All the submitted papers, including those aiming at special topic sessions, were rigorously reviewed by at least 3 reviewers. Based on the reviewers’ reports, 251 papers were accepted for oral presentations, while 99 accepted for poster presentations. In other words, only slightly over 33% of the submitted papers were accepted by this conference. The rate of acceptance was lower than one third of the total submissions.

[Bulletin](#) IGI Global

MCDM 2009, the 20th International Conference on Multiple-Criteria Decision Making, emerged as a global forum dedicated to the sharing of original research results and practical development experiences among researchers and application developers from different multiple-criteria decision making-related areas such as multiple-criteria decision aiding, multiple criteria classification, ranking, and sorting, multiple objective continuous and combinatorial optimization, multiple objective metaheuristics, multiple-criteria decision making and preference modeling, and fuzzy multiple-criteria decision making. The theme for MCDM 2009 was “New State of MCDM in the 21st Century.” The conference seeks solutions to challenging problems facing the development of multiple-criteria decision making, and shapes future directions of research by promoting high-quality, novel and daring research findings. With the MCDM conference, these new challenges and tools can easily be shared with the multiple-criteria decision making community. The workshop program included nine workshops which focused on different topics in new research challenges and initiatives of MCDM. We received more than 350 submissions for all the workshops, out of which 121 were accepted. This includes 72 regular papers and 49 short papers. We would like to thank all workshop organizers and the Program Committee for the excellent work in maintaining the conference’s standing for high-quality papers.

American Universities and Colleges Walter de Gruyter GmbH & Co KG

A syllabus-specific textbook providing worked examples, exam-level questions and many practice exercises, in accordance to the new Edexcel AS and Advanced GCE specification.

Multi-attribute group decision-making method based on weighted partitioned Maclaurin symmetric mean operator and a novel score function under neutrosophic cubic environment Springer Nature

This report presents the first internationally comparable results to OECD’s 2003 Programme for International Student Assessment (PISA) Survey of the educational performance of 15-year-olds in reading, mathematics, and science in 25 OECD countries.

Advancing Maths for AQA: Decision 1 Hodder Education

Este livro revisita o ciclo de conferências sobre “Decisão”, organizado pelo III-UC, INESC Coimbra e FEUC, cujas sessões tiveram lugar em Outubro e Novembro de 2005, que contaram com a participação de quatro cientistas de mérito internacionalmente reconhecido, os Profs. Alexis Tsoukiàs (Paris), John Broome (Oxford), Ralph Keeney (Duke) e Paul Slovic (Oregon). Estes cientistas apresentaram quatro perspectivas diversas acerca do tema do ciclo: as da investigação operacional, da filosofia, da análise de decisões e da psicologia, respetivamente. Cada um dos artigos dos conferencistas convidados foi selecionado pelo seu autor como um dos que melhor representaria a perspetiva apresentada na sua palestra. O texto de Slovic descreve a importância que o afeto tem na determinação de juízos e decisões, defendendo que a confiança depositada nesses sentimentos pode ser caracterizada como uma Heurística Afetiva. O artigo de Tsoukiàs apresenta uma visão retrospectiva sobre a evolução da teoria da decisão para uma metodologia de ajuda à decisão, considerando o autor que todas as teorias da decisão partilham uma característica comum – a utilização de linguagens formais e abstratas e de um modelo de racionalidade, defendendo uma abordagem científica para a ajuda à decisão em problemas

enfrentados por indivíduos e/ou organizações. O texto de Keeney sintetiza algumas das principais ideias que preconiza para intervir em situações de decisão, neste caso em situações de definição de políticas públicas, advogando e ilustrando a importância de basear a intervenção na eliciação dos valores do público e na sua modelação através de uma função de utilidade multiatributo. O texto de Broome pretende ilustrar os moldes em que o problema de tomada de decisões pode aparecer no âmbito da Filosofia, debruçando-se sobre um tema de longo debate entre filósofos: pode um raciocínio culminar numa ação ou apenas pode culminar numa crença? Cada um destes artigos, traduzido para a língua portuguesa, é acompanhado por um comentário de um autor português, respetivamente: Armando Mónica de Oliveira, Manuel Matos, João Clímaco e António Manuel Martins. O livro inclui ainda um capítulo introdutório que oferece uma breve panorâmica das disciplinas que se entrecruzam na palavra Decisão.

Dynamic Fuzzy Logic and Its Applications OECD Publishing

This book collects the final versions of the highest quality papers presented at the conference 11th European Symposium on Computational Intelligence and Mathematics held on October 2–5, 2019, in Toledo (Spain). The conjugation of computational sciences with different mathematical tools is essential in order to solve different challenges that arise in a wide-ranging knowledge areas. Nowadays, many promising research lines are being developed in this direction from the theoretical and applicational perspectives. In this publication, computational intelligence and mathematics are combined in interesting research works that aim to give answers to complex real problems. Moreover, the technical program of this conference included four excellent keynote speeches, given by Prof. José Luis Verdegay (Guidelines to solve Decision Making Problems), Prof. Joao Paulo Carvalho (Recommender Systems: Using Fuzzy Fingerprints for “Proper” Recommendations), Dr. Andreja Tepavcevic (Special lattice valued structures and approximate solutions of linear equations), and Prof. Juan Moreno-Garcia (Generating linguistic descriptions using Linguistic Petri Nets).

[Assessment of Solid Waste Management Strategies Using an Efficient Complex Fuzzy Hypersoft Set Algorithm Based on Entropy and Similarity Measures](#) Infinite Study

Solid waste management has gained a reputation among environmentalists as it poses a significant threat to the environment when done incorrectly and leading to effects longing for more than a century. Current solid waste management (SWM) concerns are inextricably linked to maintaining mandated organic waste treatment and reusing objectives following European directive regulations.

CIE IGCSE Chinese Foreign Language (0547-23) Intensive Reading Revision Infinite Study

This book is dedicated to Jinhua Cao on the occasion of his 80th birthday. Jinhua Cao is one of the most famous reliability theorists. His main contributions include: published over 100 influential scientific papers; published an interesting reliability book in Chinese in 1986, which has greatly influenced the reliability of education, academic research and engineering applications in China; initiated and organized Reliability Professional Society of China (the first part of Operations Research Society of China) since 1981. The high admiration that Professor Cao enjoys in the reliability community all over the world was witnessed by the enthusiastic response of each contributor in this book. The contributors are leading researchers with diverse research perspectives. The research areas of the book include a broad range of topics related to reliability models, queueing theory, manufacturing systems, supply chain finance, risk management, Markov decision processes, blockchain and so forth. The book consists of a brief Preface describing the main achievements of Professor Cao; followed by congratulations from Professors Way Kuo and Wei Wayne Li, and by Operations Research Society of China, and Reliability Professional Society of China; and further followed by 25 articles roughly grouped together. Most of the articles are written in a style understandable to a wide audience. This book is useful to anyone interested in recent developments in reliability, network security, system safety, and their stochastic modeling and analysis.

[Data-based Decision Making in Education](#) John Wiley & Sons

This book provides an overview of the main methods and results in the formal study of the human decision-making process, as defined in a relatively wide sense. A key aim of the approach contained here is to try to break down barriers between various disciplines encompassed by this field, including psychology, economics and computer science. All these approaches have contributed to progress in this very important and much-studied topic in the past, but none have proved sufficient so far to define a complete understanding of the highly complex processes and outcomes. This book provides the reader with state-of-the-art coverage of the field, essentially forming a roadmap to the field of decision analysis. The first part of the book is devoted to basic concepts and techniques for representing and solving decision problems, ranging from operational research to artificial intelligence. Later chapters provide an extensive overview of the decision-making process under conditions of risk and uncertainty. Finally, there are chapters covering various approaches to multi-criteria decision-making. Each chapter is written by experts in the topic concerned, and contains an extensive bibliography for further reading and reference.

An Optimized Complex Fuzzy Hypersoft Set System Based Approach for the Evaluation of Strategic Procurement Techniques for Fuel Cell and Hydrogen Components Springer Nature

This series, well-known for accessibility and for a student-friendly approach, has a wealth of features: worked examples, activities, investigations, graded exercises, Key Points summaries and Discussion Points. To ensure exam success there are plenty of up-to-date exam questions, plus warning signs to indicate common pitfalls. MEI offer full support to schools through their network with newsletters, training days and an annual conference.

Issues in Indian Economy: National & Global Perspectives Hodder Education

"Simulation and Optimization of Furnaces and Kilns for Nonferrous Metallurgical Engineering" is based on advanced theories and research methods for fluid flow, mass and heat transfer, and fuel combustion. It introduces a hologram simulation and optimization methods for fluid field, temperature

field, concentration field, and electro-magnetic field in various kinds of furnaces and kilns. Practical examples and a detailed introduction to methods for simulation and optimization of complex systems are included as well. These new methods have brought significant economic benefits to the industries involved. The book is intended for researchers and technical experts in metallurgical engineering, materials engineering, power and thermal energy engineering, chemical engineering, and mechanical engineering. Chi Mei, Jiemin Zhou, Xiaoqi Peng, Naijun Zhou and Ping Zhou are all professors at School of Energy Science and Engineering, Central South University, Changsha, Hunan Province, China.

Resources in Education Heinemann

This is an open access book. The 2022 3rd International Conference on Artificial Intelligence and Education (ICAIE 2022) will be held in Chengdu, China during June 24-26, 2022. The meeting focused on the new trends in the development of "artificial intelligence" and "education" under the new situation, and jointly discussed how to empower and promote the high-quality development of "artificial intelligence" and "education". An ideal platform to share views and experiences with industry experts. The conference invites experts and scholars in the field to conduct wonderful exchanges based on their own research results based on the development of the times. The themes are around artificial intelligence technology and applications; intelligent and knowledge-based systems; information-based education; intelligent learning; advanced information theory and neural network technology ; software computing and algorithms; intelligent algorithms and computing and many other topics.

Mathematics of the Decision Sciences Springer Science & Business Media

This book constitutes the conference proceedings of the 7th International Conference on Algorithmic Decision Theory, ADT 2021, held in Toulouse, France, in November 2021. The 27 full papers presented were carefully selected from 58 submissions. The papers focus on algorithmic decision theory broadly defined, seeking to bring together researchers and practitioners coming from diverse areas of computer science, economics and operations research in order to improve the theory and practice of modern decision support.

A Bridge Between Control Science and Technology: Large-scale systems, decision-making, mathematics of control Springer Science & Business Media

As the amount of accumulated data across a variety of fields becomes harder to maintain, it is essential for a new generation of computational theories and tools to assist humans in extracting knowledge from this rapidly growing digital data. Global Trends in Intelligent Computing Research and Development brings together recent advances and in depth knowledge in the fields of knowledge representation and computational intelligence. Highlighting the theoretical advances and their applications to real life problems, this book is an essential tool for researchers, lecturers, professors, students, and developers who have seek insight into knowledge representation and real life applications.

Advances in Grey Systems Research Springer Science & Business Media

Decision Maths 1 was to provide thorough preparation for the revised 2004 specification. Based on the first editions, this series helps you to prepare for the new exams.

Advanced Fuzzy Logic Approaches in Engineering Science Heinemann

. This series, well-known for accessibility and for a student-friendly approach, has a wealth of features: Worked Examples, Activities, Investigations, Graded Exercises, Key Points summaries and Discussion Points. To ensure exam success there are plenty of up-to-date exam questions, plus warning signs to indicate common pitfalls. MEI offer full support to schools through their network with newsletters, training days and an annual conference. Numerical Methods is an AS Further Maths module.

The State of the Art in the Routing and Scheduling of Vehicles and Crews Springer Nature

This book provides a complete picture of several decision support tools for predictive maintenance. These include embedding early anomaly/fault detection, diagnosis and reasoning, remaining useful life prediction (fault prognostics), quality prediction and self-reaction, as well as optimization, control and self-healing techniques. It shows recent applications of these techniques within various types of industrial (production/utilities/equipment/plants/smart devices, etc.) systems addressing several challenges in Industry 4.0 and different tasks dealing with Big Data Streams, Internet of Things, specific infrastructures and tools, high system dynamics and non-stationary environments . Applications discussed include production and manufacturing systems, renewable energy production and management, maritime systems, power plants and turbines, conditioning systems, compressor valves, induction motors, flight simulators, railway infrastructures, mobile robots, cyber security and Internet of Things. The contributors go beyond state of the art by placing a specific focus on dynamic systems, where it is of utmost importance to update system and maintenance models on the fly to maintain their predictive power.

Decision Mathematics Springer Nature

In a context where schools are held more and more accountable for the education they provide, data-based decision making has become increasingly important. This book brings together scholars from several countries to examine data-based decision making. Data-based decision making in this book refers to making decisions based on a broad range of evidence, such as scores on students' assessments, classroom observations etc. This book supports policy-makers, people working with schools, researchers and school leaders and teachers in the use of data, by bringing together the current research conducted on data use across multiple countries into a single volume. Some of these studies are 'best practice' studies, where effective data use has led to improvements in student learning. Others provide insight into challenges in both policy and practice environments. Each of them draws on research and literature in the field.

PISA Learning for Tomorrow's World First Results from PISA 2003 Legoo Mandarin

Dynamic fuzzy problem are problems that are universally focused by academics. Mathematicians and cybernetic experts have used fuzzy logic to developed theories and solve static problems in so called subjective and objective worlds. This book includes 12 chapters. Chapter 1 is about basic conceptions of Dynamic Fuzzy Sets (DFS). Chapter 2 introduces Dynamic Fuzzy (DF) decomposition theorem. Chapter 3 is about L form of DFS module structure. Chapter 4 is about representation theorem of DFS. Chapter 5 introduces extension theorem of DFS. Chapter 6 is about DF measure theory. In chapter 7 it is Dynamic Fuzzy Logic (DFL). Chapter 8 is about reasoning methods of DFL. Chapter 9 is about bases of DFL programming language. Chapter 10 introduces multi-agent learning model based on DFL. Chapter 11 is about autonomic computing model based on DFL. The last Chapter introduces application of DFL in machine learning.