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# Ahp Based Quantitative Approach For Assessing And

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Geoinformatics for Sustainable Urban Development

Hierarchon Vol 2

Multicriteria Decision Making

Advances in Visual Informatics

Automated Enterprise Systems for Maximizing Business Performance

Neutrosophic Multi-Criteria Decision Making Approach for IoT-Based Enterprises

Semi-quantitative Approaches for Landslide Assessment and Prediction

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Proceedings of the 3rd International Conference: Quantitative and Qualitative Methodologies in the Economic & Administrative Sciences (QMEAS 2013)

Models, Methods, Concepts & Applications of the Analytic Hierarchy Process

Urban Transportation and the Environment

Artificial Intelligence and Industrial Applications

Statistical Approaches for Landslide Susceptibility Assessment and Prediction

On the Move to Meaningful Internet Systems: OTM 2014 Workshops

Intelligent Systems and Decision Making for Risk Analysis and Crisis Response

Multi-Criteria Decision-Making for Renewable Energy

Geophysical, Climatological and Anthropogenic Hazards and Disaster: Vulnerability, Risk Assessment, and Sustainability

Information Systems Security

Analytical Modeling Research in Fashion Business

ITJEMAST 10(8) 2019

Collaborative Approaches for Cyber Security in Cyber-Physical Systems  
Enterprise Interoperability  
Fuzzy Analytic Hierarchy Process  
Risk-Based Strategies for Bridge Maintenance  
Handbook of Research on Software Quality Innovation in Interactive Systems  
Advancing Computing, Communication, Control and Management  
Society and Technology  
Data Processing for the AHP/ANP  
Advances on P2P, Parallel, Grid, Cloud and Internet Computing  
Logistics Engineering Handbook  
Manufacturing and Engineering Technology (ICMET 2014)  
Models, Methods, Concepts & Applications of the Analytic Hierarchy Process  
2021 6th International Conference on Intelligent Transportation Engineering (ICITE 2021)  
Advances in Reliability, Failure and Risk Analysis

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Approach For Assessing  
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## **KENDAL STEWART**

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*Geoinformatics for Sustainable Urban  
Development Springer*

This book collects select chapters on modern industrial problems related to uncertainties and vagueness in the expert domain of knowledge. The book further provides the knowledge related to application of various mathematical and statistical tools in these areas. The results

presented in the book help the researchers and scientists in handling complicated projects in their domains. Useful to industrialists, academicians, researchers and students alike, the book aims to help managers and technical specialists in designing and implementation of reliability and risk programs as below: Ensure the system safety and risk informed asset management Follow a proper strategy to maintain the mechanical components of the system Schedule the proper actions throughout the product life cycle

Understand the structure and cost of a complex system Plan the proper schedule to improve the reliability and life of the system Identify unwanted failures and set up preventive and correction action  
*Hierarchon Vol 2 Springer Nature*  
Models, Methods, Concepts & Applications of the Analytic Hierarchy Process Springer Science & Business Media  
*Multicriteria Decision Making CRC Press*  
The Analytic Hierarchy Process (AHP) is a prominent and powerful tool for making decisions in situations involving multiple objectives. Models, Methods, Concepts and

Applications of the Analytic Hierarchy Process, 2nd Edition applies the AHP in order to solve problems focused on the following three themes: economics, the social sciences, and the linking of measurement with human values. For economists, the AHP offers a substantially different approach to dealing with economic problems through ratio scales. Psychologists and political scientists can use the methodology to quantify and derive measurements for intangibles. Meanwhile researchers in the physical and engineering sciences can apply the AHP methods to help resolve the conflicts between hard measurement data and human values. Throughout the book, each of these topics is explored utilizing real life models and examples, relevant to problems in today's society. This new edition has been updated and includes five new chapters that includes discussions of the following: - The eigenvector and why it is necessary - A summary of ongoing research in the Middle East that brings together Israeli and Palestinian scholars to develop concessions from both parties - A look at the Medicare Crisis and how AHP can be used to understand the problems

and help develop ideas to solve them.

### **Advances in Visual Informatics**

Frontiers Media SA

This book provides compelling new insights into how cities are attempting to address sustainability challenges via major applications of geospatial technology in an urban area. It elucidates the role of geospatial techniques such as GIS and GNSS, including remote sensing in urban management, and covers the theory and practice of urban sustainability transitions. It provides case studies and contextualised tools for the governance of urban transitions to present various applications of geospatial techniques in an urban environment. Features: Covers hands-on approaches on quantitative measures of urban analytics Focuses on sustainability issues in urban planning and development Includes pertinent global case studies for implementation of urban planning practices Reviews the inter-relationship between smart cities and sustainable development This book is aimed at graduate students, researchers, and professionals in GIS, urban sciences, and geography.

*Automated Enterprise Systems for*

*Maximizing Business Performance* CRC Press

The primary goal of the book is to promote research and developmental activities in energy, power technology and chemical technology. Besides, it aims to promote scientific information interchange between scholars from top universities, business associations, research centers and high-tech enterprises working all around the world. The conference conducted in-depth exchanges and discussions on relevant topics such as energy engineering and chemical engineering, aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of energy materials, energy equipment and electrochemistry. By sharing the research status of scientific research achievements and cutting-edge technologies, it helps scholars and engineers all over the world comprehend the academic development trends and broaden research ideas. So as to strengthen international academic research, academic topics exchange and discussion, and promote the industrialization cooperation of academic

achievements.

Neutrosophic Multi-Criteria Decision Making Approach for IoT-Based Enterprises

International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies Manufacturing and Engineering Technology brings together around 200 peer-reviewed papers presented at the 2014 International Conference on Manufacturing and Engineering Technology, held in San-ya, China, October 17-19, 2014. The main objective of these proceedings is to take the Manufacturing and Engineering Technology discussion a step further. *Con Semi-quantitative Approaches for Landslide Assessment and Prediction* Christos Frangos

The integration of recent technological advances into modern business processes has allowed for greater efficiency and productivity. However, while such improvements are immensely beneficial, the modeling and coordination of these activities offers a unique set of challenges that must be addressed. Automated Enterprise Systems for Maximizing Business Performance is a pivotal

reference source for the latest scholarly research on the modeling and application of automated business systems. Featuring extensive coverage on a variety of topics relating to the design, implementation, and current developments of such systems, this book is an essential reference source for information system practitioners, business managers, and advanced-level students seeking the latest research on achievements in this field. This publication features timely, research-based chapters within the context of business systems including, but not limited to, enterprise security, mobile technology, and techniques for the development of system models.

**ITJEMAST 12(3) 2021** Springer Nature Nowadays, the whole world faces frequent natural and anthropogenic hazards-from drought to flood to deforestation which impends a large number of people into catastrophic destruction and damage. Since natural hazards cannot be eliminated, quantifying these events and creating reliable forecasts can alleviate their detrimental effects which can help build a more resilient and safe society. This Research Topic will comply with the

available knowledge of the multi-hazards in response to monitoring and management and intends to fulfil the gap between science, policy and the community concerned. It also focuses on the use of precision techniques, remote sensing, and GIS technologies for the quantification of various natural and environmental hazards along with the capacity and sustainable mitigation strategies for resilient societies.

**Uses and Limitations of the AHP**

**Method** Springer Nature

A large 2008 ISECS International Colloquium on Computing, Communication, Control, and Management (CCCM 2008), was held in Guangzhou, August 2008, China. Just like the name of the Colloquium, the theme for this conference is Advancing Computing, Communication, Control, and Management Technologies. 2008 ISECS International Colloquium on Computing, Communication, Control, and Management is co-sponsored by Guangdong University of Business Studies, China, Peoples' Friendship University of Russia, Russia, Central South University, China, Southwestern University of Finance &

Economics, China, and University of Amsterdam, Netherlands. It is also co-sponsored IEEE Technology Management Council, IEEE Computer Society, and Intelligent Information Technology Application Research Institute. Much work went into preparing a program of high quality. We received about 972 submissions. Every paper was reviewed by 3 program committee members, about 382 were selected as regular papers, representing a 39% acceptance rate for regular papers. The CCCM conferences serve as good platforms for the engineering community to meet with each other and to exchange ideas. The conference has also stroke a balance between theoretical and application development. The conference committees have been formed with over two hundred committee members who are mainly research center heads, faculty deans, department heads, professors, and research scientists from over 30 countries. The conferences are truly international meetings with a high level of participation from many countries. The response that we have received for the congress is excellent. This volume contains revised

and extended research articles written by prominent researchers participating in the conference.

Springer

This book constitutes the refereed proceedings of the 11th International Conference on Information Systems Security, ICISS 2015, held in Kolkata, India, in December 2015. The 24 revised full papers and 8 short papers presented together with 4 invited papers were carefully reviewed and selected from 133 submissions. The papers address the following topics: access control; attacks and mitigation; cloud security; crypto systems and protocols; information flow control; sensor networks and cognitive radio; and watermarking and steganography.

#### **Energy Revolution and Chemical Research** CRC Press

This book focuses on the spatial distribution of landslide hazards of the Darjeeling Himalayas. Knowledge driven methods and statistical techniques such as frequency ratio model (FRM), information value model (IVM), logistic regression model (LRM), index overlay model (IOM), certainty factor model (CFM), analytical

hierarchy process (AHP), artificial neural network model (ANN), and fuzzy logic have been adopted to identify landslide susceptibility. In addition, a comparison between various statistical models were made using success rate cure (SRC) and it was found that artificial neural network model (ANN), certainty factor model (CFM) and frequency ratio based fuzzy logic approach are the most reliable statistical techniques in the assessment and prediction of landslide susceptibility in the Darjeeling Himalayas. The study identified very high, high, moderate, low and very low landslide susceptibility locations to take site-specific management options as well as to ensure developmental activities in theDarjeeling Himalayas. Particular attention is given to the assessment of various geomorphic, geotectonic and geohydrologic attributes that help to understand the role of different factors and corresponding classes in landslides, to apply different models, and to monitor and predict landslides. The use of various statistical and physical models to estimate landslide susceptibility is also discussed. The causes, mechanisms and types of landslides and their destructive character

are elaborated in the book. Researchers interested in applying statistical tools for hazard zonation purposes will find the book appealing.

**Advances in Guidance, Navigation and Control** Springer

This book describes cyber-security issues underpinning several cyber-physical systems and several application domains, proposing a common perspective able to collect similarities as well as depict divergences and specific solution methods. Special attention is given to those approaches and technologies that unleash the power of collaboration among stakeholders, in a field based often developed in isolation and segregation of information. Given the pervasively growing dependency of society on IT technology, and the corresponding proliferation of cyber-threats, there is both an imperative need and opportunity to develop a coherent set of techniques to cope with the changing nature of the upcoming cyber-security challenges. These include evolving threats and new technological means to exploit vulnerabilities of cyber-physical systems that have direct socio-technical, societal and economic

consequences for Europe and the world. We witness cyber-attacks on large scale infrastructures for energy, transport, healthcare systems and smart systems. The interplay between security and safety issues is now paramount and will be even more relevant in the future. The book collects contributions from a number of scientists in Europe and presents the results of several European Projects, as NeCS, SPARTA, E-CORRIDOR and C3ISP. It will be of value to industrial researchers, practitioners and engineers developing cyber-physical solutions, as well as academics and students in cyber-security, ICT, and smart technologies in general. Global Business Expansion: Concepts, Methodologies, Tools, and Applications Springer

This book is the first in the literature to present the state of the art and some interesting and relevant applications of the Fuzzy Analytic Hierarchy Process (FAHP). The AHP is a conceptually and mathematically simple, easily implementable, yet extremely powerful tool for group decision making and is used around the world in a wide variety of decision situations, in fields such as

government, business, industry, healthcare, and education. The aim of this book is to study various fuzzy methods for dealing with the imprecise and ambiguous data in AHP. Features: First book available on FAHP. Showcases state-of-the-art developments. Contains several novel real-life applications. Provides useful insights to both academics and practitioners in making group decisions under uncertainty This book provides the necessary background to work with existing fuzzy AHP models. Once the material in this book has been mastered, the reader will be able to apply fuzzy AHP models to his or her problems for making decisions with imprecise data.

*Hierarchical Operations and Supply Chain Planning* Routledge

Researchers have been continually developing ways and means to improve quality in decision making. The success of a methodology is judged by its acceptability by the decision makers. In this context, it is beyond any argument that AHP has been massively successful. Readers of this volume will see, once again, that AHP has been applied in widely diverse areas. However, there are many

more applications of AHP in other areas that are not reported here. We also don't claim that the set of applications of AHP in the reported areas is exhaustive; it is far from complete. In fact, it will not be possible to capture all the real-world applications of AHP even by publishing many volumes of this kind. We hope that the readers will find the present compilation useful.

*Proceedings of the 3rd International Conference: Quantitative and Qualitative Methodologies in the Economic & Administrative Sciences (QMEAS 2013)*

International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies

This book features high-quality, peer-reviewed papers from the 2021 6th International Conference on Intelligent Transportation Engineering (ICITE 2021), held in Beijing, China, on October 29–31, 2021. Presenting the latest developments and technical solutions in Intelligent Transportation engineering, it covers a variety of topics, such as intelligent transportation, traffic control, road networking, intelligent automobile and vehicle operation & management. The

book will be a valuable reference for graduate and postgraduate audiences, researchers and engineers, working in Intelligent Transportation Engineering. Models, Methods, Concepts & Applications of the Analytic Hierarchy Process Springer Internet of Things (IoT) connects billion of devices to afford inventive opportunities between things and people. The rapid development of products related to IoT is a new challenge to keep security issues, lack of confidence, and understanding of IoT. Analytical hierarchy process (AHP) is a classic multi criteria decision making (MCDM) method used to analyze and scale complex problems and to obtain weights for the selected criteria. The vague and inconsistent information in real situations can lead to decision maker's confusion. *Urban Transportation and the Environment* Springer Nature

In the present authors attempted to have a clear insight into the interworking of geotectonic, geomorphic, hydrologic and anthropogenic factors leading to landslide in the Shiv khola Watershed, the most worst affected region of Darjiling Himalaya. This book includes the parameters responsible for landslide

events in mountainous areas. It provides knowledge and understanding to the local people, planners, and policy makers about the causes and consequences of landslides as well as provides a suitable method to mitigate the landslips. The book deals with the role of land, water and soil in landslide phenomena. These three attributes have been described in terms of critical rainfall, critical slope, critical height and changes and development of drainage network in landslides. Mitigations and site-specific management options are evaluated considering the roles of local govt., community and other organizations in both pre-slide and post-slide periods. Various scientific methods have been used to assess the landslides that will bring about tremendous help to researchers in the field. In particular, Researchers in Mountain Geomorphology and Geological and Geographical Society will get tremendous help from some topics such as 1-D slope stability model, SCS Curve Number Technique, Assessment of morphological parameters, application of RS & GIS, Application of Analytical Hierarchy Process. Semi-quantitative approach is followed for understanding

spatial distribution of cohesion, friction angle slope, lithology and lineaments, drainage, upslope contributing area, land use and land cover types etc. This book also reveals some techniques and models for initiating slope instability.

*Artificial Intelligence and Industrial Applications* Springer Science & Business Media

This book constitutes the proceedings of the Second IFIP WG 5.8 International Workshop on Enterprise Interoperability, IWEI 2009, held in Valencia, Spain, in October 2009. The 11 contributions included in the volume were carefully reviewed and selected from 25 submissions. The papers are

representative of the current research activities in the area of enterprise interoperability. They cover a wide range of enterprise interoperability issues from foundational theories, frameworks, architectures, methods and guidelines to project results and case studies.

*Statistical Approaches for Landslide Susceptibility Assessment and Prediction* CRC Press

Achieving state-of-the-art excellence and attaining the cost reductions associated with outstanding logistics efforts is an obvious gain in terms of competitive edge and profitability. As logistics tools evolve in comprehensiveness and complexity,

and the use of these new tools becomes more pervasive, maintaining a position of leadership in logisti

*On the Move to Meaningful Internet Systems: OTM 2014 Workshops* Springer Nature

The three-volume proceedings set LNCS 13655,13656 and 13657 constitutes the refereed proceedings of the 4th International Conference on Machine Learning for Cyber Security, ML4CS 2022, which taking place during December 2–4, 2022, held in Guangzhou, China. The 100 full papers and 46 short papers were included in these proceedings were carefully reviewed and selected from 367 submissions.

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