

Fuzzy Multiple Attribute Decision Making Methods And Applications Lecture Notes In Economics And Mathematical Systems

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Fuzzy Multiple Attribute Decision Making

A FUZZY TOPSIS MULTIPLE-ATTRIBUTE DECISION MAKING ...

attribute decision-making In this case fuzzy multiple attribute decision making with TOPSIS and weighted products is applied to generate a system that is used to select bursary applicants for academic and other co-curriculum activities In this case, crisp and fuzzy data are keenly selected in a manner that can create a defining

Multiple Attributes Decision Making Approach by TOPSIS ...

fuzzy set theory and multiple-attribute decision making a new decision support system (DSS), namely fuzzy decision method (FDM), has been developed to compare different alternatives with respect to the attributes as crisp variables, and linguistic variables Making (MADM) and (ii) Multiple Objective

Novel Methods for Intuitionistic Fuzzy Multiple Attribute ...

to the field of multiple attribute decision making In [7-8], on the basis of linear programming technique, Li developed some methods for solving multiple attribute decision making problems in intuitionistic fuzzy setting In [9], the combined maximum and the combined minimum average

weighted intuitionistic index methods

A Multiple Attribute Decision-Making Method Based on ...

respectively, and proposed a multiple attribute decision-making method where the attribute weight information is incomplete and the attribute value is an interval-valued intuitionistic fuzzy number Wan [10], in a multi-attribute decision-making problem where both the decision-maker's preferential

Fuzzy Sets And Fuzzy Decision Making | forms ...

decision making, type-2 fuzzy sets, interval type-2 fuzzy sets I INTRODUCTION EIGHT in multiple attribute decision making (MADM) can be divided into two groups which are subjective weight and objective weight Subjective weight can reflect the subjective judgment or intuition of the decision makers (DM), and they can be obtained based on

Intuitionistic Fuzzy Sets in Multi-Criteria Group Decision ...

and widely applied to decision making problems [2,6-12] In recent years, most of the researchers have used the IFSs to complicated real-life MCDM problems For example, Xu [10] investigated fuzzy multiple attribute GDM problems where the attribute values are represented in IFNs with the

Multiple Attribute Decision Making based on Neutrosophic ...

the multiple attribute decision making with hesitant fuzzy information It seems that the research of the existing uncertain method of multiple attribute decision making mainly focuses on the hesitant fuzzy number, interval fuzzy number, and intuition-istic fuzzy numbers Uncertainty of attribute leads to the lack

Multiple Attribute Decision-Making Method Using Similarity ...

S S symmetry Article Multiple Attribute Decision-Making Method Using Similarity Measures of Neutrosophic Cubic Sets Angyan Tu 1,2 ID, Jun Ye 2 ID and Bing Wang 1,* 1 School of Mechatronic Engineering and Automation, Shanghai University, 149 Yanchang Road, Shanghai 200072, China; lucytu@shueducn

Hesitant Fuzzy Multi-Attribute Decision Making Based on ...

developed the fuzzy set representation of the closeness to the positive ideal solution and the negative ideal solution and proposed a fuzzy approach based on TOPSIS to rank alternatives in MADM problems In fact, in the process of decision making, the information about attribute weights always is incompletely known or completely unknown (Xu, 2007)

Fuzzy Aggregation Approach for Estimating Severe Accident ...

Fuzzy elicitation methods act as initiators to make decisions in the presence of complete and accurate information 2 Data collection Fuzzy multiple attribute decision making methods and applications Berlin: Springer (1990) [5] R T Clemen, & R L Winkler, Combing probability distribution from experts in risk analysis Risk Analysis

Multi-Criteria Decision Making: An Operations Research ...

Multi-Objective Decision Making (or MODM) and Multi-Attribute Decision Making (or MADM) MODM studies decision problems in which the decision space is continuous A typical example is mathematical programming problems with multiple objective functions The first reference to this problem, also known as the "vector-maximum" problem, is

Article An Extended VIKOR Method Based on q-Rung ...

Sep 14, 2020 · attribute decision making 1 Introduction Multi-attribute decision-making (MADM) is a process focusing on selecting the best alternative or ranking alternatives in a finite discrete decision-making space based on attribute weights and evaluation values It is applied to various

fields such as economy, management and engineering technology

Cosine Similarity Measure Based Multi-attribute Decision ...

proposed multiple attribute decision making in which the evaluated values of alternatives on the attributes are represented by the form of trapezoidal fuzzy neutrosophic numbers However, cosine similarity based multiattribute decision making with trapezoidal fuzzy neutrosophic information is yet to appear in the literature

Decision-Making for Project Delivery System with Related ...

Decision-Making for Project Delivery System with Related-Indicators Based on Pythagorean Fuzzy Weighted Muirhead Mean Operator Yongchao Cao 1, Huimin Li 1,2 and Limin Su 3,* 1 Department of Construction Engineering and Management, North China University of Water Resources and Electric Power, Zhengzhou 450046, China; 201610106059@stuncwueducn

Grey Relational Analysis Method for Multiple Attribute ...

fuzzy multiple attribute decision-making problems with completely known weight information are given The degree of grey relation between every alternative and positive ideal solution is calculated Then, a relative relational degree is defined to determine the ranking order of all

Critical success factors of service quality in hospitals ...

satisfaction In this paper, a hybrid fuzzy multiple attribute decision-making approach is proposed to prioritize critical success factors (CSFs) of service quality of healthcare systems The uncertainty of measuring qualitative factors has been modeled using fuzzy sets The proposed hybrid approach consists of Fuzzy Delphi, Fuzzy

A Deviation-Based Approach to Intuitionistic Fuzzy ...

utilize the intuitionistic fuzzy hybrid aggregation (IFHA) operator to aggregate all individual intuitionistic fuzzy decision matrices into a collective intuitionistic fuzzy decision matrix Furthermore, we establish an optimization model to derive attribute weights and develop an approach to MAGDM with intuitionistic fuzzy information

Evaluating prioritization of ASEAN highway network ...

2 FUZZY MULTIPLE ATTRIBUTE DECISION MAKING According to Ribeiro [2], decision-making may be defined as a process of choosing “sufficiently good” alternative(s) from a set of alternatives for the purpose of attaining a goal or goals For decision making based on various decision elements or goals, generally one of three multiple decision-making

The Hesitant Fuzzy Weighted OWA Operator and Its ...

is proposed for multiple attribute decision making based on the proposed operator Finally, an example is given to illustrate the developed method Keywords: hesitant fuzzy sets, multiple attribute decision making, HFOWA operator 1 Introduction As an important extension of fuzzy set (FS), hesitant fuzzy set (HFS) [1,2] proposed by Torra and