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Fuzzy Multiple Attribute Decision Making

In this monograph, the literature on methods of fuzzy Multiple Attribute Decision Making (MADM) has been reviewed thoroughly and critically, and classified systematically. This study provides readers with a capsule look into the existing methods, their characteristics, and applicability to the analysis of fuzzy MADM problems.

Fuzzy Multiple Attribute Decision Making: Methods and ...

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(1992) Fuzzy Multiple Attribute Decision Making Methods. In: Fuzzy Multiple Attribute Decision Making. Lecture Notes in Economics and Mathematical Systems, vol 375.

Fuzzy Multiple Attribute Decision Making Methods ...

Then, we have utilized these operators to develop some approaches to solve the Pythagorean fuzzy multiple attribute decision-making problems. Finally, a practical example is given to verify the developed approach and to demonstrate its practicality and effectiveness.

Volume33, Issue1 January 2018

Pythagorean fuzzy power aggregation operators in multiple ...

The main purpose of this study is to develop a way of solving multiattribute decision-making problems (MADM),

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where the value of an attribute appears as picture hesitant fuzzy number and the attribut...

Multiple attribute decision making problem using GRA ...

A compilation of modern decision-making techniques, Multiple Attribute Decision Making: Methods and Applications focuses on the fuzzy set approach to multiple attribute decision making (MADM). Drawing on their experience, the authors bring together current methods and real-life applications of MADM techniques for decision analysis.

Multiple Attribute Decision Making: Methods and ...

Thus, the cross entropy of picture fuzzy sets, called picture fuzzy cross entropy, is proposed as an extension of the cross entropy of fuzzy sets. Then, a multiple attribute decision making method based on the proposed picture fuzzy cross entropy is established in which attribute

values for alternatives are picture fuzzy numbers.

Picture fuzzy cross-entropy for multiple attribute ...

Fuzzy number. Fuzzy decision making. 1. Introduction. Multiple attribute decision-making (MADM) methods are widely used to rank real world alternatives or select the best alternative with respect to several competing criteria. In classical MADM methods, assessments of alternatives are precisely known [3], [30], [32].

Fuzzy inferior ratio method for multiple attribute ...

In order to use three-way decision (TWD) to solve multiple attribute decision making (MADM) problems, in this article, a new TWD model with intuitionistic fuzzy numbers (IFNs) is proposed. First of all, we define the relative loss functions to demonstrate some features of loss functions in TWDs, which is the basis for future research.

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A multiple attribute decision making three-way model for ...

Multiple-criteria decision-making (MCDM) or multiple-criteria decision analysis (MCDA) is a sub-discipline of operations research that explicitly evaluates multiple conflicting criteria in decision making (both in daily life and in settings such as business, government and medicine). Conflicting criteria are typical in evaluating options: cost or price is usually one of the main criteria, and some measure of quality is typically another criterion, easily in conflict with the cost. In purchasing

Multiple-criteria decision analysis - Wikipedia

An Extended Fuzzy TODIM Approach for Multiple-Attribute Decision-Making with Dual-Connection Numbers. The TODIM is a decision-making method that can examine the psychological behavior of decision-makers (DMs). However, the traditional TODIM method has still not

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been having the ability to overcome fuzzy information such as interval values and linguistic variables.

An Extended Fuzzy TODIM Approach for Multiple-Attribute ...

Lastly, the new knowledge measure is applied to the problem of multiple attribute decision making (MADM) in an intuitionistic fuzzy environment. Two models are presented to determine attribute weights in the cases that information on attribute weights is partially known and completely unknown.

An Entropy-Based Knowledge Measure for Atanassov's ...

During the Fuzzy Multiple Attribute Decision Making: Methods and Applications 10 years, several fuzzy MADM methods have been proposed. Multi-criteria alternative-fuel technology selection using interval-valued intuitionistic fuzzy sets.

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The power average (PA) operator can reduce the influence of unreasonable information given by biased decision makers effectively, while Heronian mean (HM) operator can take into account the correlation information between attribute variables in multiple attribute decision making (MADM).

Pythagorean fuzzy investment multiple attribute decision ...

The fuzzy multiple attribute decision-making problem has practical applications in artificial intelligence, investment decision, weapon design, and many other fields . Thus, solving the fuzzy multiple attribute decision-making problem is a topic that is worth studying

A method of fuzzy multiple attribute decision making based ...

Hesitant fuzzy multiple attribute decision making (HF-MADM) can be characterized

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as a process of choosing or selecting or ranking a finite number of alternatives to attain the best one(s), in which alternative evaluations are expressed in HFEs by decision makers.

A New Hesitant Fuzzy Multiple Attribute Decision Making ...

For multiple-attribute decision making problems in Pythagorean fuzzy environment, few existing aggregation operators consider interrelationships among the attributes. To deal with this issue ...

Projection models for intuitionistic fuzzy multi attribute ...

Decision Making in the Manufacturing Environment demonstrates how graph theory and matrix approach, and fuzzy multiple attribute decision making methods can be effectively used for decision making in various situations of the manufacturing environment. Divided into two parts; Part I introduces the decision making situations in the

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Methods And Applications
In Manufacturing Environment and
presents decision making methods; Part
II uses case studies to present the
applications of these methods in real
manufacturing ...

Decision Making in the Manufacturing Environment: Using

...

The general form of the fuzzy synthetic evaluation model is established to solve multiple attribute group decision making problems. Finally, two numerical examples of multiple attribute group decision making are provided to demonstrate the feasibility and efficiency of the fuzzy synthetic evaluation.

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