

Intuitionistic Fuzzy Multicriteria Group Decision Making

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Intuitionistic Fuzzy Multicriteria Group Decision

The multicriteria intuitionistic fuzzy group decision-making (MCIFGDM) method for sustainability ranking of biofuel production pathways was developed in this section, and the MCIFGDM method was based on the similarity measure.

A multicriteria intuitionistic fuzzy group decision-making ...

This paper proposes an intuitionistic fuzzy multi-criteria group decision making with TOPSIS method for supplier selection problem. The importance of the criteria and the impact of alternatives on criteria provided by decision makers are difficult to precisely express by crisp data in the selection of supplier problem.

A multi-criteria intuitionistic fuzzy group decision ...

Intuitionistic fuzzy weighted averaging operator is used to aggregate individual opinions of decision makers into a group opinion. Six criteria are considered for selection process and the criteria are obtained from expert opinions.

INTUITIONISTIC FUZZY MULTICRITERIA GROUP DECISION- MAKING ...

An intuitionistic fuzzy multicriteria group decision making method with GRA is given. IFWA operator is utilized to aggregate individual opinions into a group opinion. Intuitionistic fuzzy entropy is used to obtain the entropy weights of the criteria. GRA is applied to the ranking and selection of alternatives. An example for personnel selection is given to illustrate the proposed method.

A GRA-based intuitionistic fuzzy multi-criteria group ...

The multiple-criteria group decision making (MCGDM) is an important research topic in decision theory. The highlight of this paper is to develop a novel decision-making formula for intuitionistic fuzzy MCGDM problems with the consideration of the deviation of experts' knowledge, experience and preference.

Multi-criteria Intuitionistic Fuzzy Decision Making Method ...

Intuitionistic fuzzy sets, however, have been shown to have greater imprecision and an increased ambiguity than ordinary fuzzy sets. For these reasons, this paper proposes a new outranking sorting method for group decision making using intuitionistic fuzzy sets.

An outranking sorting method for multi-criteria group ...

A multi-criteria intuitionistic Fuzzy group decision making for supplier selection with TOPSIS method Article in Expert Systems with Applications 36:11363-11368 · October 2009 with 5,055 Reads

A multi-criteria Intuitionistic Fuzzy group decision ...

Complex intuitionistic fuzzy sets (CIFSs), characterized by complex-valued grades of membership and non-membership, are a generalization of standard intuitionistic fuzzy (IF) sets that better speak to time-periodic issues and handle two-dimensional data in a solitary set. Under this environment, in this article, various mean-type operators, namely complex IF Bonferroni means (CIFBM) and ...

Multi-criteria decision making method based on Bonferroni ...

In , a three-way decision approach that uses intuitionistic fuzzy sets is used to solve multi-attribute decision making problems. In [32] , a linguistic scale function that transforms the semantics corresponding to hesitant linguistic terms into the linguistic preference values is proposed.

A dynamic group decision making process for high number of ...

Intuitionistic fuzzy multiplicative preference relations (IFMPR), as a useful decision making technique, was first introduced by Xia et al. [38] to express the preferences over alternatives based on the Saaty's 1/9-9 scale (see Table 1).

An intuitionistic fuzzy multiplicative best-worst method ...

An extended TODIM method is proposed to handle multi-criteria group decision making under triangular intuitionistic fuzzy environment. A weighted arithmetic interaction averaging operator of TIFNs is designed to aggregate information. A novel distance measure of the TIFNs is developed.

A TODIM-based multi-criteria group decision making with ...

Atanassov, K., Mavrov, D., Atanassova, V.: InterCriteria decision making. A new approach for multicriteria decision making, based on index matrices and intuitionistic fuzzy sets. In: Proc. of 12th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets, Warsaw, Poland (October 11, 2013) (in Press) Google Scholar

InterCriteria Decision Making Approach to EU Member States ...

The aim of this paper is to develop a new decision making method considering decision makers' psychological behavior for multi-attribute decision making problem under intuitionistic trapezoidal fuzzy environment. We first put forward a new distance measure of intuitionistic trapezoidal fuzzy numbers. Then combining with cumulative prospect theory, we develop a novel decision making method ...

Open Access Journals

As an extension of traditional fuzzy set, intuitionistic fuzzy set (IFS) can describe the fuzzy nature of the external world better, and is widely used in fuzzy multi-attribute decision and group...

Multi-criteria decision making with intuitionistic fuzzy ...

An effective decision making approach based on VIKOR and Choquet integral is developed to solve multicriteria group decision making problem with conflicting criteria and interdependent subjective preference of decision makers in a fuzzy environment where preferences of decision makers with respect to criteria are represented by interval-valued intuitionistic fuzzy sets.

Interval-Valued Intuitionistic Fuzzy Multicriteria Group ...

Interval-valued intuitionistic hesitant fuzzy Choquet integral based TOPSIS method for multi-criteria group decision making. Author links open overlay panel Deepa Joshi Sanjay Kumar. ... Zhang Z.Interval-valued intuitionistic hesitant fuzzy aggregation operators and their application in group decision-making.

Interval-valued intuitionistic hesitant fuzzy Choquet ...

An extension of TOPSIS, a multi-criteria trapezoidal-valued intuitionistic fuzzy decision making technique, to a group decision environment is also proposed, where inter-dependent or interactive...

MULTICRITERIA GROUP DECISION MAKING | Ismat Beg | 44 ...

To effectively deal with this problem, this paper presents an interval-valued intuitionistic fuzzy multicriteria group decision making approach for evaluating and selecting hotel locations. The...

Interval-Valued Intuitionistic Fuzzy Multicriteria Group ...

Developed group decision-making (DM) algorithm under intuitionistic cubic fuzzy (ICF) environment. An interpretative case for the analysis of SHPP for construction is given to demonstrate the feasibility and practicality of the mentioned new techniques.