Intuitionistic Fuzzy Multicriteria Group Decision Making

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Intuitionistic Fuzzy Multicriteria Group Decision
This study presents a multi-criteria group decision making for evaluation of supplier using intuitionistic fuzzy TOPSIS. Intuitionistic fuzzy sets are suitable way to deal with uncertainty. In the evaluation process, the ratings of each alternative with respect to each criterion and the weights of each criterion were given as linguistic terms characterized by intuitionistic fuzzy numbers.

A multi-criteria intuitionistic fuzzy group decision ...
MCGDM approach combining intuitionistic fuzzy sets (IFSs) and the Characteristic Object Method (COMET) for solving the group decision making (GDM) problems. The COMET method is resistant to the rank reversal phenomenon, and at the same time it remains relatively simple and intuitive in practical problems. This method can be used for both symmetric and asymmetric information.

Intuitionistic Fuzzy Sets in Multi-Criteria Group Decision ...
In this paper, we propose a new MCGDM approach combining intuitionistic fuzzy sets (IFSs) and the Characteristic Object Method (COMET) for solving the group decision making (GDM) problems. The COMET method is resistant to the rank reversal phenomenon, and at the same time it remains relatively simple and intuitive in practical problems.

Intuitionistic Fuzzy Sets in Multi-Criteria Group Decision ...
Section 3 describes the conversion of linguistic variables into intuitionistic fuzzy numbers. Section 4 presents the definition of operation terms. Section 5 explains grey relational analysis. Section 6 is devoted to present intuitionistic fuzzy multi-criteria group decision making based on grey relational analysis for Brick selection process.

INTUITIONISTIC FUZZY MULTICRITERIA GROUP DECISION- MAKING ...
The aim of this paper is to combine the concept of intuitionistic fuzzy set and multi-fuzzy set to produce an intuitionistic multi-fuzzy set and apply this to group MCDM problems. In group MCDM, a group of decision makers provide their opinions based on their own observations and intuitions over a set of attributes.

Group multi-criteria decision making using intuitionistic ...
Intuitionistic fuzzy weighted averaging (IFWA) operator, developed by Xu in 2007 [6], is utilized to aggregate individual opinions of decision-makers for rating the importance of criteria and alternatives. This chapter proposes an intuitionistic fuzzy multi-criteria group decision-making with the TOPSIS method for GSCM performance evaluation.

An Intuitionistic Fuzzy Group Decision-Making to Measure ...
A Multi-Criteria Intuitionistic Fuzzy Group Decision Making Method for Supplier Selection with VIKOR Method: 10.4018/ijfsa.2012010101: Supplier selection, the process of finding the right suppliers who are able to provide the buyer with the right quality products and/or services at the right

A Multi-Criteria Intuitionistic Fuzzy Group Decision ...
When the decision makers are taken as a group, the normalized overall intuitionistic fuzzy priority weight vector can be generated directly by building a fractional programming model without using the aggregation operator. An example is given to illustrate the validity and applicability of the proposed methods.

Multi-criteria Group Decision Making Based on the ...
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 ...
Based on multi-adjoint and evidence theory, an approach to multi-criteria group decision-making(MCGDM) in intuitionistic fuzzy information system is proposed. First, the upper and lower approximations of alternatives are calculated by multi-adjoint operators under the correlation matrices which were given by different experts.

Multi-adjoint based group decision-making under an ...
New multicriteria group decision support systems for small hydropower plant locations selection based on intuitionistic cubic fuzzy aggregation information. Muneeza. Department of Mathematics, Abdul Wali Khan University Mardan, KP, Pakistan.

New multicriteria group decision support systems for small ...
A GRA-based intuitionistic fuzzy multi-criteria group ... 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.

Intuitionistic Fuzzy Multicriteria Group Decision Making
The purpose of this study is to develop an intuitionistic fuzzy multi criteria group making method with grey relational analysis for teacher selection in higher education. Intuitionistic fuzzy weighted averaging operator is used to aggregate individual opinions of decision makers into a group opinion.

Grey Relational Analysis based Intuitionistic Fuzzy Multi ...
intuitionistic fuzzy sets. Grey relational analysis is used for ranking and selection of alternatives to constitute a panel of selected candidates. An educational problem for teacher selection is provided to illustrate the effectiveness of the proposed model. General terms Intuitionistic Fuzzy Multi-criteria Group Decision-making.

Grey Relational Analysis based Intuitionistic Fuzzy Multi ...
In this model in phase 1, decision makers express their opinion about each alternative based on different attribute qualitatively, and after creating interval valued intuitionistic fuzzy membership, a new variable is defined that via its help, interval-valued intuitionistic fuzzy amounts are calculated for each alternative. because of Having capabilities and comprehensiveness in their inside, not only they are better than other fuzzy sets but also they are the best for tracing the real ...

Hybrid multi-criteria group decision-making for supplier ...
Zhiming Zhang, Multi-criteria group decision-making methods based on new intuitionistic fuzzy Einstein hybrid weighted aggregation operators, Neural Computing and Applications, 10.1007/s00521-016-2273-0, 28, 12, (3781-3800), (2016).

Intuitionistic Fuzzy Hybrid Weighted Aggregation Operators ...
To handle multicriteria fuzzy decision-making problems, a new multicriteria decision-making method is proposed in which the information about criteria's weights is not completely certain, and the criteria values of alternatives are Atanassov's intuitionistic fuzzy sets (A-IFSs). Using evidential reasoning algorithms, the criteria values are aggregated; receiving the overall A-IFS for ...

[PDF] Multicriteria Decision-Making Approach Based on ...
Group multi-criteria decision making using intuitionistic multi-fuzzy sets Sujit Das1, Mohuya B Kar2 and Samarjit Kar3* * Correspondence: kar_s_k@yahoo.com 3Department of Mathematics, National Institute of Technology, Durgapur, West Bengal 713209, India Full list of author information is available at the end of the article Abstract

RESEARCH Open Access Group multi-criteria decision making ...
Intuitionistic fuzzy sets are extensions of fuzzy sets. Their elements have two degrees – a degree of membership and a degree of non-membership so that their sum is smaller or equal to 1. Intuitionistic fuzzy interpretations of the processes of multi-person and of multi-measurement tool multi-criteria decision makings are discussed in this paper.