

## Intuitionistic Fuzzy Multicriteria Group Decision Making

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Intuitionistic Logic (with Dimitri Shatkov)**Mathematics, Fuzzy Multi Criteria Decision Making Multi-Criteria Decision Making—Example An Introduction to Fuzzy Logic solved Example of mamdani approach part 2 Intuitionist versus Classical Natural Deduction** *Decision-Making in Organizations Multi Criteria Decision Making by James Webber (WISE CDT)* **TOPSIS - Technique for Order Preference by Similarity to Ideal Solution An Egg-Boiling Fuzzy Logic Robot** Fuzzy logic basics (a), 23/3/2015 **Normality , crossover point and singleton Fuzzy set** Lecture 01: Introduction to Fuzzy Sets **Fuzzy Logic Tutorials | Introduction to Fuzzy Logic, Fuzzy Sets \u0026 Fuzzy Set Operations** ~~Multi-Objective Fuzzy Optimization with Real-Time Application | Dr.C.Vijayalakshmi |?~~ **Inside Dynamical Systems and the Mathematics of Change** ~~Common Biases and Judgment Errors in Decision Making Organizational Behavior (by Jennifer Lombardo)~~ What is Entropy? and its relation to Compression **Intuitionistic Fuzzy Sets** ~~Seismic Vulnerability Mapping~~

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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.

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A multi-criteria intuitionistic fuzzy 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.

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Intuitionistic Fuzzy Sets in Multi-Criteria 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

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Intuitionistic Fuzzy Sets in Multi-Criteria 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.

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A multicriteria intuitionistic fuzzy group decision-making ...

Thus, plant location selection problem is a multicriteria decision-making problem involving several conflicting criteria on which decision makers' knowledge is vague and imprecise. Therefore, in this study, the elimination and choice translating reality (ELECTRE) method is proposed with intuitionistic fuzzy sets for selection of appropriate plant location in group decision-making environment to tackle uncertainty of the information provided by decision makers and a plant location ...

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A multicriteria intuitionistic fuzzy 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.

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

Multicriteria group decision making with ELECTRE III method by interval-valued intuitionistic fuzzy information Abstract Many real world problems can be associated with multicriteria decision making. These problems are often characterized by a high degree of uncertainty. Interval-valued intuitionistic fuzzy sets are a generalized

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Multicriteria group decision making with ELECTRE III ...

Hung and Chen applied intuitionistic fuzzy sets to a new fuzzy TOPSIS decision making model, using the entropy weight for dealing with multicriteria decision making problems under intuitionistic fuzzy environment. Ye and Park et al. developed different frameworks for the TOPSIS method under IVIF data.

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Multicriteria group decision making with ELECTRE III ...

Group decision makings . Abstract. The aim of this paper is to develop a novel approach for multiple attributes group decision making, in which the decision information, provided by multiple decision makers, is presented in the form of interval-valued intuitionistic fuzzy numbers. First, the aggregated

information matrix

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The Application of TOPSIS Method to Group Decision Making ...

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.

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Interval-Valued Intuitionistic Fuzzy Multicriteria Group ...

In the first case study, the supply chain selection problem investigated by Wei and Wang is used as the benchmark, who also developed a decision making method using intuitionistic trapezoidal fuzzy numbers. In this problem, the alternatives are five suppliers, evaluated according to four criteria: product quality (C 1), service (C 2), delivery (C 3) and price (C 4).

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IF-TODIM: An intuitionistic fuzzy TODIM to multi-criteria ...

In Section 5, an approach to intuitionistic fuzzy multi-criteria decision making is given based on the proposed IFHGIA operator. In Section 6, a numerical example is illustrated to show the feasibility and validity of the new approach, and the comparison between the work of this paper and other corresponding works is presented systematically.

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Intuitionistic fuzzy geometric interaction averaging ...

Tao Li, Liyuan Zhang and Ziyu Yang. Abstract—During the process of decision making with intuitionistic fuzzy preference relation (IFPR), the underlying normalized intuitionistic fuzzy priority weight vector can be obtained by a mathematical programming model. In the multi-criteria group decision making (GDM) problem, it is reasonable to assume that different decision makers have different criteria weights, this is because that each decision maker has his/her own opinions and preferences ...

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Multi-criteria Group Decision Making Based on the ...

This study aims to propose the concept of intuitionistic fuzzy parameterized intuitionistic fuzzy soft matrices (ifpifs-matrices) and to present several of its basic properties. Therefore, it would be possible to improve the problem-modelling capabilities of the available intuitionistic fuzzy parameterized intuitionistic fuzzy soft sets in the occurrence of a large number of data.

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link.springer.com

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.

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New multicriteria group decision support systems for small ...

, An outranking sorting method for multicriteria group decision-making using intuitionistic fuzzy sets, *Information Sciences* 334–335 (2016), 338–353. [33] Sengupta A. and Pal T.K., *Fuzzy preference ordering of interval numbers in decision problems*, Springer, Berlin, 2009.

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

This paper proposes an Atanassov's interval-valued intuitionistic fuzzy multicriteria group decision making with TOPSIS method for supplier selection problem. The technique for order preference by Similarity to an ideal solution (TOPSIS) method is presented in Chen and Hwang [ 44 ], with reference to [ 45 ].

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Group Decision Making Process for Supplier Selection with ...

the proposed decision procedure for solving the multi-criteria group decision making problem in interval-valued intuitionistic fuzzy environment. 1. Introduction e increasing complexity of the socioeconomic environments makes it less and less possible for a single decision maker to consider all relevant aspects of a problem. Hence,

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Research Article Interval-Valued Intuitionistic Fuzzy ...

Wang J.Q., Wang P., Wang J., Zhang H.Y. and Chen X.H., Atanassov's interval-valued intuitionistic linguistic multicriteria group decision-making method based on the trapezium cloud model, *IEEE Transactions on Fuzzy Systems* 23(3) (2015), 542–554.

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