

# Intuitionistic Fuzzy Multicriteria Group Decision Making

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### Intuitionistic Fuzzy Multicriteria Group Decision

#### INTUITIONISTIC FUZZY MULTICRITERIA GROUP DECISION- ...

INTUITIONISTIC FUZZY MULTICRITERIA GROUP DECISION-MAKING APPROACH TO QUALITY CLAY-BRICK SELECTION PROBLEMS BASED ON GREY RELATIONAL ANALYSIS Kalyan MONDAL<sup>1</sup> Birnagr High School (HS), Birnagar, Ranaghat, Nadia, West Bengal, India E-mail:

kalyanmathematic@gmailcom Surapati PRAMANIK<sup>2</sup>

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

S S symmetry Article Intuitionistic Fuzzy Sets in Multi-Criteria Group Decision Making Problems Using the Characteristic Objects Method Shahzad Faizi<sup>1</sup>, Wojciech Sałabun<sup>2,\*</sup>, Tabasam Rashid<sup>3</sup>, Sohail Zafar<sup>3</sup> and Jarosław Watróbski<sup>4</sup> <sup>1</sup> Department of Mathematics, Virtual University of Pakistan, Lahore 54000, Pakistan; shahzadfaizi@vuedupk <sup>2</sup> Research Team on Intelligent Decision Support

#### Interval-Valued Intuitionistic Fuzzy Multicriteria Group ...

interval-valued intuitionistic fuzzy multicriteria group decision making approach for evaluating and selecting hotel locations The subjectiveness and imprecision of the decision making process are adequately modeled by the use of interval-valued based intuitionistic fuzzy ...

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

Index Terms—multi-criteria, group decision making, multi-plicative consistency, intuitionistic fuzzy preference relation I INTRODUCTION Group decision making (GDM), where some decision makers are involved to select the best alternative, takes place widely in various fields of operations research and management science For a GDM problem

#### A Hybrid Intuitionistic Fuzzy Multi-criteria Group ...

A Hybrid Intuitionistic Fuzzy Multi-criteria Group Decision Making Approach for Supplier Selection Ahmad Makuia<sup>\*</sup>, Mohammad Reza Gholamianb,

Seyed Erfan Mohammadi a Associate Professor, Iran University of Science and Technology, Tehran, Iran b Assistant Professor, Iran University of Science and Technology, Tehran, Iran c MSc, Iran University of Science and Technology, Tehran, Iran

### **Intuitionistic Fuzzy Hierarchical Multi-Criteria Decision ...**

Intuitionistic Fuzzy Hierarchical Multi-Criteria A multiplicatively normalized intuitionistic fuzzy decision matrix is established from the interval-value-based assessments of alternatives and proposed a group MCDM model with linguistic assessments and incomplete criterion weight information, and applied it in evaluating and ranking low

### **Group Decision Making Process for Supplier ...**

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] The basic principle is that the chosen alternative should have the shortest distance

### **Multi-criteria group decision-making method based on ...**

Multi-criteria group decision-making method based on generalized power harmonic aggregation operators with normal intuitionistic fuzzy numbers Hong-gang Peng<sup>1</sup>, Jing Wang<sup>2\*</sup>, Jian-qiang Wang<sup>3</sup> 1 School of Business, Central South University, Changsha 410083, PR China Tel: (+86) 73188830594, Email: hg\_peng@csu.edu.cn

### **Extended TOPSIS method for multi-criteria group decision ...**

Multi-criteria group decision-making Abstract The objective of this work is to present a novel Multi-Criteria Group Decision-Making (MCGDM) method under the Cubic Intuitionistic Fuzzy (CIF) environment by integrating it with the extended TOPSIS method In the existing studies, uncertainties,

### **Grey Relational Analysis based Intuitionistic Fuzzy Multi ...**

presents preliminaries of fuzzy sets and intuitionistic fuzzy sets Section 3 presents operational definitions Section 4 describes grey relational analysis Section 5 is devoted to present intuitionistic fuzzy multi-criteria group decision-making based on grey relational analysis for teacher selection in higher education

### **Research Article Hybrid Multicriteria Group Decision ...**

environment So far intuitionistic fuzzy sets (IFSs) have been used in many fields such as medical diagnosis [ ], decision-making problems [ ], pattern recognition [ ], supplier selection [ ], enterprise partner selection [ ], and personnel selection [ ] Boran et al [ ] proposed a multicriteria intuitionistic fuzzy group decision ...

### **Multi-criteria Group Decision Making Approach for Teacher ...**

[16] presented a intuitionistic fuzzy MCDM approach for teacher selection based grey relational analysis Though fuzzy and intuitionistic fuzzy MCDM problems are widely studied, but indeterminacy should be incorporated in the model formulation of the problems Indeterminacy plays an important role in decision making process

### **Fuzzy Pareto Solution in Multi-criteria Group Decision ...**

Intuitionistic Fuzzy Sets; Intuitionistic Linguistic Preference Relation 1 Introduction Group decision making (GDM) is useful to evaluate and judge the best solution among alternatives through a social group GDM, in a fuzzy environment, contains four

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decision-making problem Wang and Zhang [18] ranked TraIFNs by converting them into interval numbers Nehi [19] proposed a generalization of the characteristic value first suggest

### **Fuzzy Multi-Criteria Decision Making Algorithm under ...**

hesitant intuitionistic fuzzy linguistic elements (HIFLEs) Beg and Rashid (2014b) presented some distance measures between two intuitionistic hesitant fuzzy sets Zhou et al (2015) presented a preference relation based group decision-making approach with hesitant intuitionistic fuzzy ...

### **Research Article Interval-Valued Intuitionistic Fuzzy ...**

higher order extensions such as intuitionistic fuzzy set (IFS) [ ] and interval-valued intuitionistic fuzzy set (IVIFS) [ ] have been successfully used to handle imprecise and uncertain human decision behaviors [ , , ] Recently, the VIKOR method has been developed for fuzzy multi-criteria decision making in complex systems

### **Multi-valued Neutrosophic Sets and Power Aggregation ...**

group decision-making (MCGDM) problems with inaccurate, uncertain or incomplete information Under these circumstances, Zadeh's fuzzy sets (FSs)1, where the membership degree is represented by real numbers between zero and one, are regarded as an important tool for solving MCDM and MCGDM problems2-3, fuzzy

### **Research Article An Interval-Valued Intuitionistic Fuzzy ...**

analysis of score functions for multicriteria decision-making in intuitionistic fuzzy settings In the context of interval-valued intuitionistic fuzzy sets, Li [ ] constructed a pair of nonlinear fractional programming models to calculate the relative closeness coefficient intervals of alternatives to the ideal solutions In a similar manner, Li

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### **Fuzzy Multicriteria Decision Making Models Methods And ...**

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