**Response Letter for the Paper with ID: JAUIST-1128289**

We are grateful to the referees and editors for their comments and suggestions. The paper has been revised according to the comments. Moreover, we have added a Highlighted Paper showing the revisions.

**Reviewer #1:** The authors defined the concept of *ifpifs*-matrices to deal with uncertainties in decision making. The method provided has been designed successfully for significantly big data.

The authors make a good argument for why the concept is essential. Methodology in the paper is good. The results are well written and correct mathematically.

Thank you for the comments.

This paper may be accepted subject to the following minor corrections.

1. Abbreviations can be italic but should not be in equation form. For example, "\emph{ifpifs}-matrices" is much better than "$ifpifs$-matrices".

We have made the necessary revisions.

1. Add comparison of proposed methods with some existing decision-making approaches.

In Chapter 6, we already compare the proposed method EA20 with ten state-of-the-art methods. Therefore, we have made no revisions.

1. The motivation should be highlighted in the abstract and conclusion.

We have rearranged the abstract and conclusion.

1. Add input and output in the decision-making algorithm. Add more steps to explain your method. For example: In Step first add a set of objects, a set of attributes, set decision-makers (DMS). In Step last, find the optimal alternative.

We have further explained Step 1.

Construct two *ifpifs*-matrices $\left[a\_{ij}\right]\_{m× n}$ and $\left[b\_{ik}\right]\_{m× n}$ by considering the set of alternatives $U=\left\{u\_{1},u\_{2},...,u\_{m-1}\right\}$ and the parameters set $E=\left\{e\_{1},e\_{2},...,e\_{n}\right\}$.

Moreover, we have added Step 4.

Choose the most suitable alternatives $u\_{k}$ with respect to $μ\left(u\_{k}\right)$.

1. The literature review should be improved in the light of recent related articles:

Classification of the monolithic columns produced in Troad and Mysia Region ancient granite quarries in Northwestern Anatolia via soft decision-making.

Linear Diophantine Fuzzy Set and its Applications towards Multi-Attribute Decision Making Problems.

Hesitant fuzzy soft topology and its applications to multi-attribute group decision-making.

DOI: 10.1007/s40314-019-0989-z.

Doi.org/10.1007/s40314-019-0843-3.

Due to the Journal Policy, we have added two of the suggested references.

@Article{eact19,

Author = "Engino\u{g}lu, S. and Ay, M. and \c{C}a\u{g}man, N. and Tolun, V.",

Title = "Classification of the monolithic columns produced in {T}road and {M}ysia {R}egion ancient granite quarries in {N}orthwestern {A}natolia via soft decision-making",

Journal = "Bilge Int J Sci and Tech Res",

Volume = "3",

Pages = "21--34",

Year = "2019"

}

@Article{rh19,

Author = "Riaz, M. and Hashmi, M. R.",

Title = "Linear {D}iophantine fuzzy set and its applications towards multi-attribute decision-making problems",

Journal = "J. Intell. Fuzzy Syst.",

Volume = "37",

Number = "4",

Pages = "5417--5439",

Year = "2019"

}

**Reviewer #2:**

1. Linguistic quality of the paper must be improved.

We have rechecked the paper carefully.

1. Paper seems technically correct even though it is a direct generalization of already existing concepts.

Due to the journal's template, we kept them as they were.

1. References to recent works and its elaborations, especially in MCDMS is not adequate in the introduction. It must be added. A brief description of the advantages of Intuitionistic fuzzy parameterized intuitionistic fuzzy soft sets and matrices over earlier ones must be mentioned in the introduction.

We have described the advantages of *ifpifs*-sets and *ifpifs*-matrices and added details about MCDMS and the recent related works thereon.

1. Paper seems technically correct even though it is a direct generalization of already existing concepts.

Thank you for the comments.

**Reviewer #3:**

The paper is well-organized, and its topic is pretty interesting. I recommend this paper to be accepted in this journal.

Thank you for the comments.