

Peer Review

Review of: "Picture Fuzzy, Hesitant Fuzzy, and Spherical Fuzzy SuperHyperGraph"

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{Review Report: ``Picture Fuzzy, Hesitant Fuzzy, and Spherical Fuzzy SuperHyperGraph"}

{General Assessment}

The paper presents a theoretical framework extending fuzzy set concepts to hierarchical hypergraph structures. While the mathematical formalism is rigorous, several aspects warrant critical examination.

\begin{itemize} \item Comprehensive integration of multiple fuzzy set extensions (Picture, Hesitant, Spherical) with hypergraph theory \item Clear definitions and illustr

\begin{itemize} \item \textbf{Computational complexity}: No analysis of algorithmic feasibility for the proposed structures \item \textbf{Comparative analysis}: Missing dire

\begin{itemize} \item Edge constraints in Definition 1.10 appear contradictory between $\nu(e) \leq \min$ and $E(e) \geq \max$ \item Theorem 2.6(iii) proof contains inco

\section*{Conclusion}

The paper makes valuable theoretical contributions to fuzzy hypergraph theory but would benefit from stronger connections to practical applications and clearer comparative positioning. With appropriate minor revisions addressing these points, it could become an important reference in the field and suitable for publication.

Attachments: available at <https://doi.org/10.32388/TDPONS>

Declarations

Potential competing interests: No potential competing interests to declare.