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Comparative Analysis of Informative Measures in Pythagorean Fuzzy Environment

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ABSTRACT

Almost in every field, multi criteria decision making problems are involved. The important factors that are associated with multi criteria decision making problems are weights of criteria and environment of the problem. Calculation of weights plays a crucial role in the ranking of the alternatives. Environment is to handle uncertainty involved in the problem. In this work, we have taken several informative measures to calculate weights of criteria in Pythagorean fuzzy environment using technique for order preference by similarity to ideal solution (TOPSIS) method. The validity and applicability of several measures is analyzed by taking a numerical example. Finally, a comparative study is also performed to check the usability and applicability of the measures.

Keywords: Multi criteria decision making, Pythagorean Fuzzy Set, Informative measures

How to Cite

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