Review of: "Improved cosine similarity measures for q-Rung orthopair fuzzy sets"

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Potential competing interests: No potential competing interests to declare.

The main contribution of this short correspondence as called by the author is the introduction of two new similarity measures for q-rung orthopair fuzzy sets, that are extensions of Zadeh's fuzzy sets, Atanassov's intuitionistic fuzzy sets and Yager's Pythagorian fuzzy sets. From theoretical point of view these definitions are new and deserve to be published. However I am not convinced about the added value given Example 1! First the set A is an IFS and the set B is an PFS. The difference between similarity degree 1 and similarity degree 0.83472 is not that big and can be convincing for introducing a new measure. Second the author claims that also the lenght of the fuzzy set is taken into account but this proof is missing. Third I am missing a detailed study of these new measures wrt the properties. For example what about the transitivity ?