

A Definition and Study of a New Kind of Similarity Measure of Fuzzy Sets *

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ABSTRACT

It is well known that the similarity measure can be induced from entropy of fuzzy sets, we prove that this existing kind of similarity measure all satisfies the proposition, that is, the similarity measure of two fuzzy sets equals to that of their complementary sets. But the mutual subset hood does not content this proposition. We construct a new kind of similarity measure depending on entropy, and it doesn't meet this proposition.

Keywords: fuzzy set, similarity measure, entropy.

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