

عنوان مقاله:

COMBINING FUZZY QUANTIFIERS AND NEAT OPERATORS FOR SOFT COMPUTING

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خلاصه مقاله:

This paper will introduce a new method to obtain the order weights of the Ordered Weighted Averaging (OWA) operator. We will first show the relation between fuzzy quantifiers and neat OWA operators and then offer a new combination of them. Fuzzy quantifiers are applied for soft computing in modeling the optimism degree of the decision maker. In using neat operators, the ordering of the inputs is not needed resulting in better computation efficiency. The theoretical results will be illustrated in a water resources management problem. This case study shows that more sensitive decisions are obtained by using the new method.

کلمات کلیدی:

OWA operator, Fuzzy quantifiers, Neat operator, Multi criteria decision making, Watershed management

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