

## Interval-valued intuitionistic fuzzy multi-criteria decision making based on the generalized shapley geometric choquest integral

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### Abstrak

In practical decision-making, the independence of criteria is usually violated so its unreasonable to aggregate the alternative values using additive measures. In order to reflect the interactions between combinations in a set, the generalized shapley function is used to measure the importance of them, which is an expectation utility function with respect to a fuzzy measure. It is worth pointing out that the generalized shapley function is also a fuzzy measure. Then, the generalized shapley interval-valued intuitionistic fuzzy geometric choquet operator is defined, which is also an interval-valued intuitionistic fuzzy value. Further, some important properties are investigated. Moreover, an approach to interval-valued intuitionistic fuzzy multi-criteria decision-making is developed. In the end, two practical examples are selected to show the presented procedure