

## عنوان مقاله:

A new approach for ranking of intuitionistic fuzzy numbers

## محل انتشار:

نشریه گسترش مجموعه فازی و کاربردهای آن، دوره 1، شماره 1 (سال: 1399)

تعداد صفحات اصل مقاله: 12

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## خلاصه مقاله:

The concept of an intuitionistic fuzzy number (IFN) is of importance for representing an ill-known quantity. Ranking fuzzy numbers plays a very important role in the decision process, data analysis and applications. The concept of an intuitionistic fuzzy number (IFN) is of importance for quantifying an ill-known quantity. Ranking of intuitionistic fuzzy numbers plays a vital role in decision making and linear programming problems. Also, ranking of intuitionistic fuzzy numbers is a very difficult problem. In this paper, a new method for ranking intuitionistic fuzzy number is developed by means of magnitude for different forms of intuitionistic fuzzy numbers. In Particular ranking is done for trapezoidal intuitionistic fuzzy numbers, triangular intuitionistic fuzzy numbers, symmetric trapezoidal intuitionistic fuzzy numbers, and symmetric triangular intuitionistic fuzzy numbers. Numerical examples are illustrated for all the defined different forms of intuitionistic fuzzy numbers. Finally some comparative numerical examples are illustrated to express the advantage of the proposed method.

## کلمات کلیدی:

intuitionistic fuzzy sets, intuitionistic fuzzy numbers, Trapezoidal Intuitionistic, Fuzzy Numbers, triangular intuitionistic fuzzy numbers, magnitude of intuitionistic fuzzy number

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