

## عنوان مقاله:

Generating optimal upper and lower bounds for fuzzy triangle based on bootstrap confidence interval

## محل انتشار:

بیست و یکمین کنفرانس سیستم های فازی ایران (سال: 1401)

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## خلاصه مقاله:

Triangular fuzzy numbers (TFNs) have basic applications in fuzzy logic. In decision making methods, expert evaluations often turn into triangular fuzzy numbers. In this type of problems, different researchers have made different proposals for determining the upper and lower boundaries of a triangular fuzzy number. This leads to the use of TNF numerical scales, most of which are symmetric, to show results that are usually moderate values. These values are often close to explicit values. Therefore, the results may not be produced at their best. The choice of upper and lower bounds for TFNs has always been questioned. In this paper, we propose that the Bootstrap confidence interval method (BCIM) be used to determine the upper and lower boundaries of a TFN in cases where expert opinions are used. One of the applications of BCIM is in decision making methods

## کلمات کلیدی:

Fuzzy optimization, Fuzzy-boundary interval, decision making, bootstrap confidence interval

## لینک ثابت مقاله در پایگاه سیویلیکا:

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