عنوان مقاله:

On the multivariate process capability vector in fuzzy environment

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خلاصه مقاله:

The production of a process is expected to meet customer demands, specifications or engineering tolerances. The ability of a process to meet these expectations is expresed as a single number using a process capability index. When the quality of the products relates to more than one characteristic, multivariate process capability indices are applied. As it is known, in some circumstances we are faced with imprecise data. So, fuzzy logic is engaged to deal with them. In this article, the specification limits and the target value of each characteristic and also, the data gathered from the process are assumed to be imprecise and a new fuzzy multivariate capability vector is introduced. As a whole, the present article provides a research of the application of fuzzy logic in multivariate capability vector.

کلمات کلیدی:

Multivariate normal distribution, Multivariate process capability vector, Fuzzy logic, Triangular fuzzy matrix, Fuzzy linear equation system, Ranking function

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