

Fuzzy Distances

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Abstract: In the paper, three different ways of constructing distances between vaguely described objects are shown: a generalization of the classic distance between subsets of a metric space, distance between membership functions of fuzzy sets and a fuzzy metric introduced by generalizing a metric space to fuzzy-metric one. Fuzzy metric spaces defined by Zadeh's extension principle, particularly to n are dealt with in detail.

Keywords: fuzzy metric; fuzzy distance; fuzzy metric space; fuzzy contraction;

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