Common Function Expression of Similarity Measure of Fuzzy Set at l^p – distance

Wei Yiliang
Wuhan Polytechnic University
Wuhan, Hubei, Postcode 430023, The People's Republic of China
Email: weiyiliang@yahoo.com.cn   **Tel:** +86(0)2783955676

ABSTRACT

The common function expressions of similarity measure and S –similarity measure of the fuzzy set in the condition l^p -distance are presented in this paper. The calculating formula of similarity measure and S –similarity measure of the fuzzy set at l^p -distance are made more perspicuous, which is the underlying application to pattern recognition, fuzzy clustering and information and image processing.

Keywords: fuzzy set, s–similarity measure, l^p -distance.