Abstract

In the present communication, two exponential fuzzy information measures are introduced and characterized axiomatically. To show the effectiveness of the proposed measure, it is compared with the existing measures. Two fuzzy discrimination and symmetric discrimination measures are defined and their validity are checked. Important properties of new measures are studied. Their applications in pattern recognition and diagnosis problem of crop disease are discussed.
On Exponential Fuzzy Measures of Information and Discrimination

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Index Terms

Computer Science

Fuzzy Systems

Keywords

Fuzzy set  Fuzzy information  Discrimination measure  Pattern recognition