Fuzzy hypersphere neural network classifier

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Abstract
In this paper fuzzy hypersphere neural network (FHSNN) is proposed with its learning algorithm. The FHSNN utilizes fuzzy sets as pattern classes in which each fuzzy set is an union of fuzzy set hyperspheres. Its performance is compared with other two fuzzy neural networks and found to be superior with respect to the training time, recall time per pattern and the generalization.

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