A fuzzy central cluster neural classifier

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Abstract

Pattern classification is a critical stage in an image recognition system. In this paper, we will incorporate the concepts of fuzzy sets into the recognition system, and develop an efficient algorithm, based on fuzzy classification decision criterion to classify features of images with a high degree of success. A fuzzy central cluster neural network classifier (FCCNN) are proposed, which takes advantages of neural networks being of the high computation rate provided by their massive parallelism, and fuzzy neural network classifiers can be trained with supervision as well as unsupervision techniques.

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