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Author Jia-Ching Lin
Author's Email Address No Public.
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Abstract
In today’s commercial behavior, holding the effective information through information technology becomes a very important feature to judge if the company has business competitive powers. Due to information technology"s progress, it used to be not so easy to collect information in the past time. Beside, it must spend a lot of time and cost to get some part of useful data. How to extract useful information from a huge database for making correct or question solving decisions by enterprise or personal has become an important research subject.

Data mining is an active and important research topic. Cluster analysis is an efficient tool to analyze the attribute structure to between data, and the results of analysis can be applied to training in engineering and science. The main objective of cluster analysis is to partition a presented data set into homogenous clusters such that patterns within a cluster are more similar to each other.

The primary objective of research is using Voronoi cell distance and new membership function instead of Euclidean distance to modify fuzzy Kohonen clustering networks. However, the modification might be less sensitive to noise and outliers.
Advisory Committee Jen-Peng Huang - advisor

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