

Abstract

In order to search some certain information, we don't always get all relevant data, there are some irrelevant and redundant features. This matter should be fix properly by using feature selection. Feature selection is a reducing process of dimension by deleting some irrelevant features. This final project will provide a research explanation of making feature selection using fuzzy clustering, that is fuzzy c-means, by using wrapper approach. The structure of the feature subset is identical to the real data structure from the cluster that made by feature subset and real data. This identical structure can be known from classification error rate, the smaller the value, more identical the feature from the real data. This method can selectively choose the feature subset that have identical structure with the real data set. Even the classification error rate of data set feature subset will decrease if the chosen feature subset is relevant.

Keywords : *feature selection, Fuzzy C-Means, wrapper feature selection, subset feature*