

Abstract

With the improvement of science and technology in medical, gen of human could be presented in a form of data with a large number of attribute. The data is known as high dimensional data. Data need to be processed to mining the information. Many algorithm could process the data. One of the algorithm is CS4 algorithm (*Cascading and Sharing for Ensemble of Decision Trees*) that is kind of ensemble method.

The function of attribute selection is to find the best attribute based on the value of information gain. The different of CS4 algorithm with bagging and boosting algorithm when construct model, CS4 algorithm use the original data but bagging and boosting algorithm use bootstrap data.

The result of implementation CS4 algorithm that has been done, the accuracy level is depend with the number of attribut that is using for constructing tree.

Keywords: CS4, ensemble method, attribute selection, bagging, boostng.