

Abstract

Classification and association represent two techniques which are widely used in data mining. Classification of data mining aims to generate a set of rules (classifier) from data while association aims to find all association rules of data. Therefore, the integration between classification and association can yield more accurate rule classifier.

In this final project, there is implementation CPAR (Classification Based on Predictive Association Rules) as a technique that integrates both classification and association (associative classification), where this integration uses greedy algorithm to generate classifier rules are associative and predictive. CPAR has two major tasks that is rule generation to generate classifier rules and prediction using rules to evaluate rule and make prediction.

With the existence of CPAR technique in yielding classifier, it is expected that the performance of classifier will be better than common classification technique. This performance is measured from yielding accuracy. Through comparison with data mining tool is Weka, this comparison improve that CPAR has better accuracy compared with classification techniques such as C4.5.

Keyword: classification, association, rule, classifier, CPAR.