

## Abstract

Internet usage that grow rapidly makes information develop and exchange very fast. Various kind of information are available on Internet, so it makes the number of information rises exponentially. This development makes the information is able to access easily by user. However, the number of information that increase more and more every day make big problem and challenge. Because of that, news article categorization is needed to make article serching more easy for user. One way to categorize the document is categorization technique on data mining.

However, high dimensionality makes classifier performance not good. To solve this problem, we use feature selection technique. This final project uses *wrapper feature selection approach*. While subset search method for wrapper are *hill-climbing search* and *best first search* with Naive Bayes classifier from WEKA 3.5. Feature subset searching is done by calculate macro average F-measure from each node and will be produced the best feature.

**Keyword :** *feature selection, wrapper feature selection, best first search, hill climbing search, macro average F-measure*