

Abstract

The semantic relatedness to measure the strength of semantic connections that exist between textual units, in this case between pair of words. the relationship between pair of words which have relatedness meaning. For example, want to determine the value of semantic relatedness between table with chair. To measure the value of the relationship between the pair of word there are several methods that can be used, one of which is a vector-based method.

Vector-based method is one method used to measure how much the semantic relationship between pair of word. By using this vector, pair of word to be converted into a vector form each by comparing features between the two words.

In this final project is implemented in the form of applications to measure the relationship between pair of words with vector-based method, with features that are obtained from both word using WordNet, tf-idf method and wordsim353 as testing dataset containing 252 pairs of words with the goal standard value.

Results of the study were obtained using a vector-based method at wordsim353 obtained correlation scored 0,42 by using gloss and hipernim. And the parameter that affect the value of a good semantic relatedness is using hipernim.

Keywords: WordNet, vector-based method, semantic relatedness, tf-idf, pair of words, dataset.