

Abstract

Measuring lexical semantic relatedness is an important task in NLP (Natural Language Processing). Semantic relatedness can be measured using knowledge bases like WordNet and Wikipedia. There are many method to measuring lexical semantic relatedness, one of them is gloss-based method. In this research, will be implemented gloss method in measuring lexical semantic relatedness with WordNet as knowledge base and wordsim353 as dataset used in testing. Wordsim353 contains 252 pairs of words and gold standard score from each pair. Gloss-based method is one of the method used to measure the relatedness between pair of word by using gloss of each word and see how much word that is overlapped between gloss of each words. Based on result by using gloss-based method, the best correlation is 23.63% when adding gloss holonym in the calculation. And the parameter that affecting the best semantic relatedness score is when not adding gloss holonym in the calculation. And the correlation result of semantic relatedness with gloss based method is better than semantic similarity Wup, Jcn, Lin method.

Keywords: lexical semantic relatedness, lexical semantic, gloss-based method, text mining, correlation, WordNet.