

## Abstract

The purpose of this end task is making software of word sense disambiguation in the Indonesian sentences.

The production background is Indonesian language has word which more than one meaning, congruent with the sentence context. The word, which more than one meaning, can cause ambiguous or hesitancy. Word sense disambiguation do it by choosing appropriate meaning of ambiguous word in sentence. In this end task, ambiguous word used is homograf.

Sense elections do it by using integration parser, wordnet, and Lesk algorithm techniques. Parser which used is PC-PATR, which tools implementation of syntax regulation of Indonesian sentence, based on research [10].

Based on search to many articles, then type of sentence test divided into 7 type, which every type based on number of homograf and class type. Those 7 sentence type and test results are : type 1 (sentence which has 1 homograf, different word class type (6 sentence)), successful to word sense disambiguation 5 sentences; type 2 (sentence which has 2 same homograf, different word class type for every homograf (2 sentences)), successful to word sense disambiguation 2 sentences; type 3 (sentence which has 2 homograf different, different word class type for every homograf (3sentences)), successful to word sense disambiguation 2 sentences; type 4 (sentence which has 2 homograf different, different word class type and same word class type (3 sentences)), successful to word sense disambiguation 3 sentences; type 5 (sentence which has 1 homograf same word class type (6 sentences)), successful to word sense disambiguation 4 sentences; type 6 (sentence which has 2 same homograf , same word class type (3 sentences)), successful to word sense disambiguation 1 sentence; type 7 (sentence which has 2 different homograf , same word class type and have different meaning (3 sentences)), successful to word sense disambiguation 3 sentence.

Those testing result, depend on the data base completeness and sentence decomposition result.

**Keyword** : word sense disambiguation; parser; wordnet; Lesk algorithm.