

## Implementation of porter's modified stemming algorithm in an Indonesian word error detection plugin application

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### Abstrak

Stemming is a process of finding a root of a word with some omission stages of prefixes and suffixes. Stemming for each language varies depending on the morphology of the language. Stemming widely been used as a complementary stage in many activities relating to word or phrase. With so many stemming utilizations, many algorithms are made to do the stemming process. In this study, the authors would like to learn the Porter's stemming algorithm, to develop, improve and implement this algorithm into a word error detector plugin application. In the test results shown that the modified Porter stemming algorithm gives more accurate results in the analysis than the original Porter stemming algorithm with an average difference of about 3 percent precision.