
ABSTRACT

Research on translation machine has been done in Indonesia, from translation machine English-Bahasa, Javanese-Bahasa, to Chinese-English. But, very few researches is done in this field based on statistical science, although many researches on translation machine using statistical method has been done abroad.

In this research, it will be implemented a translation machine based on statistics for sentences from science engineering journal literature, especially telecommunication engineering. This research is done in order to know accuracy rate of the system if it will be tested on sentences from science journal literature.

Testing on system will be done using two corpuses (groups of sentence) which have 100 sentences each, where first corpus consists of 100 sentences that has not been trained before. After testing, system's output will be evaluated using two ways, that are automatically using *BLEU* metrics and manually by human.

After analization is done to evaluation results, that statistical translation machine can translate sentences from telecommunication engineering science journal well. The score from automatic evaluation for trained sentence has value of 0.9102 and manually 0.754. Trained sentence has not very large value, because tested sentences were randomly selected from different resources with the trained sentences.

Keywords : Science journal literature, translator machine