Abstract

Text summarization is a process to produce a summary of an article but still have an accurate description of the contents of an article. Objective of this process is to take the source of information by citing most of the important content and show it to the readers in a simple form that appropriate with reader's need.

In this final task is to implement the method of TF-ISF (Term Frequency * Inverse Sentence Frequency) [12] which is one method of text summarization that produces output in the form of extractive summaries of high rank sentences. As a comparison of TF-ISF method, used another text summarization method is TF-IDF (Term Frequency * Inverse Document Frequency) modified using keyphrase extraction[10] concept. Thus, hopefully this system can help readers to get informations from articles through a summary. Text Summarization will produce a text that still has the main points from the original articles.

The test results showed that the summary process depends on the type of articles / documents, total sentences and the summary length. System's performance results analyzed using Precision, Recall, and F-Measure showed that TF-ISF method has the same performance with the TF-IDF in processing single document. Otherwise for multidocument summary process, TF-IDF method with Keyphrase Extraction has better performance than TF-ISF method with Keyphrase Extraction, because it is supported by the increasing value of term occurrences and keyphrase.

Keyword: *Text Summarization*, *Keyphrase Extraction*, TF-IDF, TF-ISF.