

Abstract

Information and communication technology nowadays growth rapidly causes data is plentiful, but that data precisely makes user difficult to filter useful information. Therefore today user needs powerful text summarization system, ie system that are effectively able to summarize information which is found in multiple documents into a shorter form, but still not lose the meaning of those documents. So users don't need to spend a lot of time to find the information they need in an long article, just enough to read the summary of articles that they found. Centroid-Based Summarization (CBS) is one of methods used for text summarization, can applied in both single-document and multi-document. This method calculates the centroid of each sentence in the document in cluster, the sentence which is has higher centroid value means more like topic of the document. Oriented by research conducted by R.Radev Dragomir, a profesor in Computer Science at the University of Michigan, this study attempts to apply CBS method to make summary of news document collection in Indonesian language with extractive summarization technique. Firstly that dataset will be grouped into clusters by topic using Single Pass Clustering technique. After that, each cluster made its summary using CBS method. Which will evaluated by comparing with summary extracted by human using ROUGE-2 and Relative Utility.

Keywords : *Centroid-Based Summarization, Single Pass Clustering, ROUGE-2, Relative Utility, multi-document, extractive summarization.*