

Abstract

This Final Project implements the automatic text summarization technique for multiple news documents. The implemented ATS uses a sentence fusion technique to produce an output of abstraction summary in the form of multiple sentences. The sentence fusion technique itself is done by creating a tree structure for all input sentences and counting similarity values for each formed structure. The values will then be used to create a fusion tree structure, containing general informations found in each sentence's tree structure. All possible sentences that can be made from the fusion tree are then generated, with entropy values calculated for each sentence using a Trigram Language Model with Good Turing. The final text summary is then chosen by evaluating the highest and lowest entropy values. Application testing is done by using a PIRAMIDA evaluation tool kit. The test indicates that the sentenced fusion technique applied in this final project has an acceptable value of accuracy.

Kata kunci: automatic text summarization, *Sentence fusion, text-to-text generation, tree, tree fusion, Trigram Language Model, Good Turing.*