A Proposed Method for Summarizing Arabic Single Document

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Abstract

This paper proposes an automatic text summarization method, which is considered as a selective process for the most important information in the original text. It could be divided into two types extractive and abstractive. In this study, a system for single documents text summarization is introduced to be used for Arabic text that rely on extractive method. According to this, we will go three stages, which are pre-processing phase, scoring of sentence, and summary generation. The pre-processing phase starts by removing punctuation marks, stop words, unifies synonyms as well as stemming words to obtain root form. Then it measures every sentence according to a collection of features in order to get the sentences with a higher score to be included in the final summary. The system has been evaluated by comparing between manual and automatic summarizations and some measurements are used especially Rouge measure. Manual summarize is done by two human experts to check the summaries’ quality in terms of the general form, content, coherence of the phrases, lack of elaboration, repetition, and completeness of the meaning. The final results proved that the proposed method achieved the higher performance than other systems.
References


Index Terms

Computer Science
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Keywords

Text summarization, Arabic single document, Text mining.