

Single document keywords extraction in Bahasa Indonesia using phrase chunking

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ABSTRACT

Keywords help readers to understand the idea of a document quickly. Unfortunately, considerable time and effort are often needed to come up with a good set of keywords manually. This research focused on generating keywords from a document automatically using phrase chunking. Firstly, we collected part of speech patterns from a collection of documents. Secondly, we used these patterns to extract candidate keywords from the abstract and the content of a document. Finally, keywords are selected from the candidate based on the number of words in the keyword phrase and some heuristic involving candidate reduction and sorting. We evaluated the result of each heuristic using precision, recall, and F-measure. The experiment results show: (1) shorter-phrase keywords with using reduction extracted from the abstract and sorted by frequency provide the highest score, (2) in every proposed heuristic, extracting keywords using the abstract always provides a better result, (3) using shorter-phrase patterns in keywords extraction gives better score in comparison to using all phrase patterns, (4) sorting heuristic based on the multiplication of candidate frequencies and the weight of the phrase patterns offer better results.

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1. INTRODUCTION

Keywords are a sequence of words or phrases that represent the content of a document [1, 2]. Keywords are included primarily to help readers quickly understand the main idea of the document. Furthermore, keywords can also be utilized to support content analysis of a document, such as content matching [3], document categorization [4], document browsing [5], and document summarization [6]. However, coming up with keywords manually needs considerable time and effort [2, 7]. Moreover, subjectivity is another problem that may arise in manual keywords generation due to the different backgrounds, knowledge, experience, etc. of the authors. Automatic keyword extraction techniques provide a means to address this subjectivity limitation of manual keyword creation [5, 8].

Keywords can be extracted from both a single document or a collection of documents. Extracting keywords from a single document, as the focus of this paper, aims to obtain the essential representation of that document [9]. On the other hand, extracting keywords from a collection of documents is usually intended to compare and classify each document into some categories. Previous research proposed various

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