

ABSTRACT

Sandhika Aprella Yola Agustira. 2013. Implementation Of Question Answering System For Indonesian Language Reading Text Documents Using *Rabin-Karp* Algorithm

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The procedure for the educational process in institutions usually manifested in a handbook, to use to the entire academic community. As in its use has limitations, therefore the research about question answering system was introduced in order to facilitate students in understanding the contents of the manual handbook.

This study used two algorithms to determine the relevant answer to a given query question, namely Rule Based algorithm Rabin and Karp algorithm. In the process of stemming, using the *Arifin-Setiono* algorithm. Search for the answers is done by giving answers scoring using *Rabin-Karp* heuristic scoring and *Rule-Based* scoring, both of which will be compared to the results. Then selected answers in the form of sentences in the document that has the highest score value.

From tests that has been conducted, scoring the answers with *Rabin Karp* algorithm take a running time longer than the *Rule Based* algorithm whereas for the accuracy of the *Rabin-Karp* algorithm is better than *Rule Based* algorithm. As for the accuracy of the answers, *Rabin-Karp* algorithm has 58 % for accuracy while the *Rule Based* produces 32 % for accuracy.

Keywords : text mining, *Rabin-Karp*, string matching, question answering.