

ABSTRACT

The Quran is the holy book of Islam, which has been used as a guides of life all Muslims since 610 BC. It is devided into 114 chapters, 6236 verses, and 77.845 words. Total number of verses that are widely and the distribution of a particular concept become an important issue for understanding the meaning of verses in the Qur'an. Therefore, needed a system that can measure the similarity score between verses in the Qur'an with the textual semantic similarity (STS). The background of this research is due to the unavailability of data sets verses Alqruan similarities and the unavailability of a system capable of assessing the similarity of Islamic texts.

In this research, the system will be built for measuring similarity score between two English translation of Quranic by implementing the semantic role labeling (SRL) method and word alignment method. In the application SRL method, labeling is done by using online tools and then examined again manually by observing the rules propbank, so the representation of semantic argument produced more accurate. Then, calculation of similarity score between the verse is calculated by implementing the word alignment method, this method has shown the best performance in the the competition SemEval 2014 and 2016 in the task semantic textual similarity.

Key word: semantic textual similarity, semantic role labeling, word alignment, Alquran, propbank