Abstract

The Qur'an is a Muslim holy book that has translation parts of semantic similarities between different verses. This causes ordinary people who do not understand Arabic to be more difficult to find out the relevance of the semantic similarity of the translation. Therefore, in this final project, the problem that will be raised is knowing the semantic similarity value of the Al-Qur'an translation section with other verses. Winnowing algorithm is one algorithm with the Fingerprinting document method. Fingerprinting documents will produce a hash value called fingerprint. This fingerprint will be the basis for the comparison of selected documents. In searching for the semantic similarity, the winnowing algorithm uses a jaccard similarity calculation. The dataset used in this final project is a verse translation of the Qur'an in English. And the output is in the form of the paragraph pair accuracy value between two predetermined pages. The combination of winnowing algorithm method and jaccard similarity to calculate the semantic similarity in paragraph pairs between two pages that have been determined produces an accuracy value that is equal to 100% while for the f-measurable value is 72.72%.

Keywords: Al-Qur'an Translation, Similarity, Winnowing Algorithm, Jaccard Similarity