

Abstract

In the Qur'an there are many examples of people and group of people we can learn. To facilitate this, semantic search using ontology can be applied. but there are limitations in semantic search using ontology, like users have to understand semantic query languages like SPARQL. Therefore in this paper we will discuss about semantic search, where the input is a query from a user is a natural language and will have an output in the form of a ranked list of instance of ontology that refer to user's query . In this paper there are several steps to be taken, such as term mapping to ontology, construction the results of Term mapping to a graph, and rank the instance of the ontology with cosine similarity where the system get score of 79.58% in precision, 90% in recall, and 63.29839755% in Accuracy of Query Relevance.

Keywords: Al-Quran; Cosine similarity; Human; Onology; Semantic Search; SPARQL; .