

## Abstract

In this final project we try to make an Ontology based search engine. Ontology plays an important role in representing knowledge and its relation to a specific concept domain.

Building an ontology starting from scratch is not an easy task because of the heavy demands on time and also the needs of experts related to the knowledge domain built. However, we can use the existing ontology to develop the application.

We try to compare the value of precision, recall, and interpolation average precision (IAP) of the ontology based search engine and the result value of the tf-idf (term frequency-inverse document frequency) based search engine.

As for the result, we find that that the ontology based search engine will retrieved more relevant documents compared to the tf-idf based on its precision , recall, and interpolation average precision (IAP) value.

**Keywords** : ontology, tf-idf, precision, recall, and interpolation average precision (IAP).