

## Abstract

Information Retrieval is an information finding (usually a document) based on a query that purposed to fulfill user's need from existing documents. One of major in information retrieval is about document ranking. Document ranking is a process to sort documents result from the retrieval process which is appropriate with the query inputted by the user.

This final task purpose is to find document that relevant with the user's input and do reranking so then the document's rank resulted will be more suitable with user's query context. In information retrieval there's a model to get similarity score of document which is relevant with the query inputted by the user. One of the model is *Vector Space Model*. *Vector Space Model* is choosed because it is simpler and proven to have efectivity in words finding by showing retrieved result with the similarity iof query's vector and document's vector. There are two parameters choosen as system's evaluation measurement, precision and recall. The score of precision and recall on each point increased *Vector Space Model* with reranking have bigger score than *Vector Space Model* without reranking. This prove that *Vector Space Model* with reranking can improve quality of ranking method.

**Key words:** *Information Retrieval, Vector Space Model, with re-rangking, without re-rangking, precision, recall.*