

## Abstract

Information Retrieval (IR) is a computer science that related to retrieved information from collection documents based on the content of the documents. Process in Information Retrieval can be described as a process to collect relevant documents from collection documents based on user query. A way to increase the performance of Information Retrieval is with optimize query as known as Relevance Feedback. One of Relevance feedback is known as query expansion, which create a new query from original query by adding some keyword that relevan to original query. In this Final Project there are combine of Co-Occurence and Probabilistic Methods for getting new keyword. The result shows that the combine methods can increase perfoemance of the Information Retrieval System. Beside that, the combine of both methods can improve performance of each methods.

**Keywords:** *Information Retrieval, Information Retrieval System, Query Expansion, Co-Occurence, Probabilistic, and query.*