Comparative Study of Generalized Vector Space Model and Vector Space Model in Information Retrieval System

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Abstract

Information retrieval is one of the retrieval systems which is browsing through documents and searching for specific information. Information retrieval systems are used to find the relevant information from the unstructured data or records. The system is intended to understand the information retrieval system by using the generalized vector space model and vector space model. The main purpose of this system is to store and index digital documents and then retrieve the information according to user's query. Two models with cosine similarity coefficient are used to search the relevant documents. The system retrieves the PSC thesis paper according to the user query by comparing these two models. Then, the system compares the GVSM's ranked results with the VSM's ranked results. In the system, 546 documents are stored in database and tested with various threshold values. According to the overall results, the GVSM's recall value is better than that of VSM and the VSM's precision value is better than that of GVSM. So, GVSM can generate more similar results than VSM.