

Abstract

The strength of an Information Retrieval System lies on its ability to retrieve relevant information or documents according to user's intent by considering a high level of precision and a low level of irrelevant recall of results. A recent development to actualize this dream is the application of ontology. Therefore, Ontology-Based Information Retrieval is becoming an interesting area in the current research trend of ontology and semantic web. However, the sufficiency of developing domain ontology alone to efficiently and effectively take care of information retrieval becomes a research issue. Thus, to address the research gap, a technique called Query Expansion has been identified as a veritable tool. Query Expansion is a process of expanding initial user's query term(s) with the aid of a technology such as wordNet to return relevant results according to user's intent. But returns of query results using the existing wordNet is challenging in normal or inflected terms, such as synonyms or polysemy (word mismatch). Therefore, this paper proposes improved query expansion algorithm as framework to effectively and efficiently develop ontology based information retrieval system.

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