Abstract

This paper presents a novel information retrieval system that includes (1) the addition of concepts to facilitate the identification of the correct word sense, (2) a natural language query interface, (3) the inclusion of weights and penalties for proper nouns that build upon the Okapi weighting scheme, and (4) a term clustering technique that exploits the spatial proximity of search terms in a document to further improve the performance. The effectiveness of the system is validated by experimental results.