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(57) Abstract :

The system in the present disclosure is a novel approach to enhancing search engine efficiency and accuracy. In this system, a comprehensive index of documents is created through crawling and indexing, and a sophisticated ranking algorithm is employed to provide users with the most relevant search results in a timely manner. The process comprises crawling data sources to gather documents, followed by the extraction and preprocessing of textual (114) content. An inverted index is then constructed, mapping terms to the documents they appear in. When a user submits a query, the system processes the query text (114) and may perform query expansion to encompass synonyms or related terms. It computes relevance scores for each document based on the query terms present within them. Top-scoring documents are retrieved from the index and presented to the user through an intuitive interface. The system also includes metadata to aid users in assessing result relevance.

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