ABSTRACT

Due to the rapid growth of applications in the Internet and WWW, graphic and image files are widely used in multimedia webpages. Thus, the way of effectively managing and retrieving image files has become an important issue today. Although there are a few multimedia search engines available, e.g., Yahoo’s image search engine, Webseek, ImageRover, they cannot completely match users’ demands. That is, a manual update of webpages usually makes so small amount of images accessible in the search database. Thus, a quick way of retrieving relevant image files is pursued and reported in the thesis. Utilizing our constructed topic knowledge database, the search keyword typed by user will be automatically transformed to another group of keywords. Then, topic related webpages will be reported through full-text search engines and collected by our webpages retrieval module efficiently. The features of HTML, including title, keywords within the document and image filenames, are first analyzed by a quick character string match. Following that, a fuzzy inference module, which uses those HTML features as inputs, can measure the degree of topic relevance for all image files contained in the collected webpages. Experiments show that the novel image searching technique can illustrate a promising performance in searching time and correctness in retrieving automobile webpages and image files on Internet.

Keywords: Information Retrieval Internet Intelligent Agent

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