Abstract

The foremost mission of any information retrieval algorithm is the efficient extraction of user interests. The rapid growth of web data, intense competition and user's option to choose from several alternatives increases this issue. In this context Web usage mining can provide valuable contributions in terms of ideas and methods, as it fissures useful knowledge from the pattern of user interactions with the Web. The user interest can be identified by analyzing the access pattern of user browse, the web pages they save, collect, or print. These valuable information's are available in server logs, which can be exploited to satisfy user needs by optimizing the document-retrieval task. This article is a review conducted in the field of web usage mining and its latest works for supporting the research on efficient information retrieval based on user access pattern. This survey analyzes 25 released information retrieval models to find out the major mining techniques applied in them and also to analyze the effect of diverse parameters like feedbacks, time, content, frequency etc in information retrieval. The goal of this survey is to find the best composition of features to be included in an efficient information retrieval model. Using those features a new retrieval model is then proposed.

References
Intelligent Web Information Retrieval based on User Navigational Patterns

- Ki Soon, Selangor, Sang Ho Lee, "Classifying web Pages using Information Extraction Patterns - Preliminary Results and Findings." LaySoongil University, Seoul,
Korea.

- Wang Xiao–Gang, "Web Mining based on User Access Patterns for Web
Personalization"; ISECS International Colloquium on Computing Communication Control and Management; Aug 2009.


Index Terms

Computer Science

Web Services

Keywords

Information retrieval User navigational patterns Web usage mining Web personalization

Retrieval parameters.