Abstract

Web usage mining is about analyzing the user interactions with a web server based on resources like web logs, click streams and database transactions. It helps in discovering the browsing patterns of the user and in relating the pages visited by him. This knowledge can be of help in making business decisions, refining the web site design to derive personalized pages. Web usage mining uses the data mining and the incremental mining techniques to extract the user usage patterns and study the visiting characteristics of the user. Normally, the source for all this data is the web server log, which changes dynamically. Conventional data mining techniques were proposed to be inefficient, as they need to be re-executed every time the log changes which in turn requires multiple database scans.

This paper discusses an algorithm to suit the dynamically changing log scenario, based on association rule mining with incremental technique. The algorithm proved to be more efficient as there are redundant no of scans of database, it avoids the generation of
candidate keys and allows interactive mining with different supports. The experimental results proving this claim are given in this paper.

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Index Terms

Computer Science
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Key words

IFPT
TSR