



An Efficient Information Retrieval System Using Hybrid Cuckoo Based Query Flow Graph for Query Recommendation

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Abstract: Web information is increasing in size. Users use keywords that are based on queries of input for searching the web by means of search engines. A composition of input queries based on keywords for few terms and in many cases it does not match the relevant words used in the documents and the right documents cannot be brought out from the web. An important component in the enhancement of keyword based search engine queries is Query recommendation. Query optimization has the objective of finding a plan for execution which brings down the query processing cost and also the cost of communication for query transmitting. Tabu search is another strategy which helps solving optimization problems that are combinatorial with a range of applications from graph theory, general pure as well as mixed problems of integers and Metroid settings. Here the they cuckoo search techniques and Cuckoo Search hill climbing methods that are hybrid have been proposed to retrieve efficiently by searching the web for query recommendation information.

Keywords : Query recommendation, query optimization, Tabu search, hybrid Cuckoo Search-Tabu Search and hybrid Cuckoo Search-Hill Climbing.

1. INTRODUCTION

An application in techniques of Data Mining related to web data is known as Web mining. The current work on such data mining is generally to get knowledge at the level of Queries as well as the documents that are assessed in their response. An insight is gained through the log as to how the search engine can be used or what the interests of the users are [1] The sequence of the user pursued accesses known as web access pattern is very useful and interesting in practice. This is normally used for the prediction of the navigational behavior of users. Here the web log mining is used to better the performance of the search engines by making use of knowledge that is mined.

The best way to understand the usage of a search engine and the actual interests of the users is by means of Query logs as they can provide a record of the search made by users at any given time. This type of log data is commonly known as click-through data and is the best way to understand the information needs of users.