

Query by Image for Efficient Information Retrieval: A Necessity

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ABSTRACT

For the past many years we are using search engine for image retrieval. These search engines use shapes, contents, text, and caption based approach for getting relevant image from the web repository. This image repository contains billions of 2D and 3D images as well as relevant information about those images. For shape based approach user has to give dimensions of that particular image for getting relevant response.

This paper describes the necessity of an efficient search engine for retrieving information about an image by uploading an image on the search engine or giving image as a query for retrieving information related to that particular image. It can be proved very helpful for a novice user who is searching information about an unknown or unfamiliar logo or image.

Key words

Search engine, shape retrieval, shapes matching, Content Based Visual Query, World Wide Web.

1. INTRODUCTION

Search Engines have become a popular way of finding information on the World Wide Web (WWW). Exploring visual data on text based search engine is beyond capability. To explore it, user assumes that textual description of visual data is available. But pictorial data is hard to be described by verbal description. We need a search engine that accepts pictorial image query to find the data.

With these features, speed ups or rapid search of image is also a matter to be considered. This technique will prove to be very beneficial Archaeology, study of past human societies, primarily through the discovery and analysis of material. If a person from forensic or archeology needs some information related to a seal, a picture a logo, or any other image they can very easily upload that image and can find out the information as well as relevant Uniform Resource Locator (URL) related to that image. That thumbnail or icon must contain hyperlink for enlarging and shrinking of that image.

2. RELATED WORK

This paper basically reviews the related work done by many researchers in field of efficient image search. The paper is the comparative study of various techniques and methods being used and described to formulate the search query so that most relevant information can be made available to the user.

R. Barber et al. [1] described Query by Image Content (QBIC) techniques which serve as "information filters" and simply reduce the search for the user who will ultimately discard false calls. Interactivity of QBIC technology is the key, allowing the user to use visual query and visual evaluation and refinement, and to decide what to discard and what to keep. It contrasts QBIC technology with typical machine vision applications. The

The data that a user obtains as a result of pictorial query should appear as an icon, textual information about that image. A very important question is what will be a user Query in case he has an image but no info about that. User will not get relevant information in any case. The Systems that were previously using this type of searching were not appropriate for 3D searching. But with shape based method and graphic hardware we can include 3D images also in our search.

The four main steps for retrieval of image information include Crawling, Indexing, Querying by uploading images and matching of image and results. The main pictorial features are also very important for searching images such as Color variation, color saturation, color transition strength, color background, grayness, etc. Images are cataloged on the basis of these features. There exist various formats for images that also play an important role in searching of appropriate image and search engine is supporting up to which level.

There are many image search engines that need dimensions, file size and type as query to find image but it can give wrong results and time consuming because it is not necessary that user has such information.

The rest of the paper is organized as follows. In Section 2 related literatures is presented. In Section 3 Issues related to topic are discussed.

Finally, in section 4, we draw conclusion and possible research directions and suggestions are commented.

key technical problems and challenges are: how to represent the images so they can be easily queried, what are the similarity measures that best match human or application requirements, cost of digital data entry (scanning, outlining etc.), and how to have all of this done economically and efficiently (database, system and user interface issues).

D. Lee et al. [2] described QBIC indexing algorithms that allow the multi-queries to run efficiently. This paper deals with the problem of querying large on-line image databases, where the queries are content-based and complex. To enable such queries, it is necessary to combine methods from image pattern recognition (to detect and represent the content-based features) and database technology -to efficiently index and retrieve the relevant images based on those features).

D. Lee et al. [3] described a technique for user interface which allows a user to graphically pose and refine queries based on multiple visual properties of images and their objects. The emphasis of this paper is the graphical user interface we have developed that allows users to pose these queries and the facilities it provides to construct "multi-queries" involving global images features.

Plickner M. et al. [4] described the QBIC system developed to explore content-based retrieval methods. QBIC allows queries

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