Image Retrieval System for Peer To Peer Network Using Color and Bit Pattern

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Abstract - Retrieving Images plays a major role for users instead of viewing written data. Images are used for easy understanding about certain information. In existing system images are retrieved by using of text which is not much user -friendly. In proposed system introducing images instead of text to retrieve relevant images, thus by using of color, texture and bit pattern featured images are retrieved with the help of filtering method. The large number of images are stored in the database. Such images are already color bit pattern features are done and such information also stored in that. The input images are compared with the database and retrieve the relevant images as outcome.

Keyword - image retrieving, color, textur, and bit pattern features.

I. INTRODUCTION

The images are very essential for users to understand the meaning of content. Generally it is a well-known fact that all human find it easy to understand things clearly by visualizing pictorial representation rather than web based. It is also similar in case of peer to peer network.

In existing system content-based image retrieval, an area that has been so active and prosperous in the past few years. Content Based Image Retrieval (CBIR) is a retrieval of relevant images from large databases based on features extracted from the image. Thus retrieving images related to a query image from a large set of distinct images.

The Content Based Image retrieval is not much useful to users because of larger query needed to retrieve the relevant images[1,4]. Thus introducing images as query to retrieve the relevant images from the larger database using of color, texture and bit pattern features in the proposed system with the help of some filtering methodology.

II. Related work (Literature Survey)

A. A Review on Content Based Image Retrieval in Medical Diagnosis. Technical and Physical Problems of Engineering:

This paper is based on currently available literature on content based image retrieval. In this developed automatically derived features such as color of the image with minimal human intervention. This paper is proposed to find the brain tumor image from the body image.

B. Content Based Image Retrieval Based On Color, Texture, Shape & Neuro Fuzzy:

In this current technology content based image retrieval becomes more popular. Thus the increasing of popularity of using networks this technique has to be enhanced for fast retrieving of information [2,5]. By using of neuro fuzzy logic the images are retrieved from the larger database which is essential for users.

C. A Performance Evaluation of Gradient Field HOG Descriptor for Sketch Based Image Retrieval.

In this paper images are retrieved for searching photo collection using free-hand collections. By using of sketch based image retrieval the images are retrieved this incorporate hog into the bag of visual word to retrieve image [3]. By comparing of GF-HOG with state-of-art descriptor for the retrieval. In GF-HOG system semantic keywords are also involved for image searching.

III. EXISTING SYSTEM

A. Text based image retrieval:

In the larger database text is given as query to retrieve the images in the image search engine with the help of internet. In the search engine text is as a query thus the query is matched with the images in the database, the matched images are retrieved and produced as the output. Text based images retrieving is as similar to the Content-Based Image retrieval. To retrieve exact image the users has to type larger content of text in the search engine. Thus the content typing in search engine is not essential and user-friendly[6].

Image search is done in server side when the content given by the user thus viewing the similarity between the query and an indexed image, the image quality, etc. Google present high-quality images first so as to improve accuracy.

The major disadvantage of the existing system is not much user-friendly because of needed larger text for image retrieving as user desired.

IV. PROPOSED SYSTEM

Users major role to retrieve images to understand the concept that prescribe. In the proposed system Images are retrieved by using of images instead of using text.In this system select the number of images to be retrieved.And also select the format of filters(linear,standard deviation,etc)to retrieve relevant images.These are done by usings of some modules.

a. Converion of Image to pixel.

b. Extraction of color co-occurance features.

c. Extration of Bit pattern features.

d. Retrieval of images.

## V. MODULES DESCRIPTION

A. Converion of images to pixel:

In this module the images should be stored in the database with extraction information. Thus the extraction information are: shape of particular image, texture of that image, color of that images are also stored in the database. These process are done to store the images in the database which is to retrieve. To retrieve the images users have to give input images instead of text as our concept. Such input image will be converted into the pixels formation. Then the pixels are converted into the grey scale values. The grey scale values be in binary form. Such in that grey scale value only the particular images only be classified into a separate category.

B. Extraction of color co-occurrence feature:

The color of that images is identified in this module and which will be in RGB model. The color distribution that particular image will be consist of huge information about that image. The images colors will be defined as attribute such that colors are extracted with the help of color co-occurrence matrix. This matrix calculated the pixel value by comparing with neighbor pixels to know the correct color value information. Thus by using this can found the color extraction.

C. Extraction of bit pattern features:

In this module it is used to find the pictures shape, edges, and texture content. Using of bit pattern the pictures shapes can be identified using of angles. Bit pattern codebook identifies the shape of the pictures.
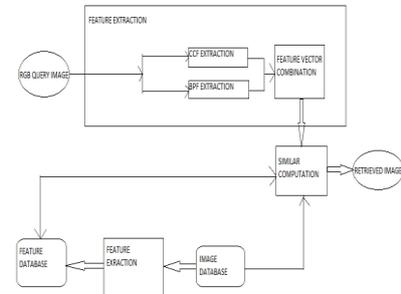
D. Retrieval of images:

The images are retrieved from this dataset. The extraction of images information are compared with the database images. Then if the images are matched it is retrieved as output otherwise the images are returned to the database itself. In this each images are compared for retrieval, retrieve only if it is similar [7,8]. And finally by using of noise reduction method the unwanted noise in the images will be removed and retrieved.
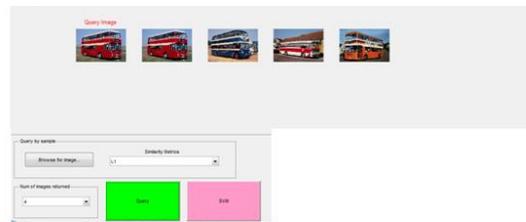
VI CONCLUSION:

Thus the images are retrieved by producing the query images. In the select by result the filers have to be selected. And needed number of images are given in the numbers of images required. Then the images are browse in the given browse for image. If the images are selected as input and select query button to retrieve the image. Hence the images are retrieved by using of color, bit, and texture pattern.

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