Abstract

Content Based Image Retrieval (CBIR) system helps users to retrieve relevant images based on their contents. It finds images in large databases by using a unique image feature such as texture, color, intensity or shape of the object inside an image. This paper presents a comparative study between the feature extraction techniques that based on color feature. These techniques include Color Histogram, HSV Color Histogram and Color Histogram Equalization. In this study, the retrieval process is first done by measuring the similarities between the query image and the images within the WANG database using two approaches: Euclidean distance and correlation coefficients. Then, the comparison is carried out by measuring the accuracy, error rate and elapsed time of each technique.

References

Comparative Study on CBIR based on Color Feature

- Wang's dataset http://wang.ist.pslle/dll/

Index Terms

Computer Science      Pattern Recognition

Keywords

CBIR        Feature Extraction  Image Retrieval  Similarity Matching  WANG database
Color Histogram