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

Comparative Study on CBIR based on Color Feature

- Wang's dataset http://wang.ist.psll.edll/
- S. Manimala and K. Hemachandran, "Image Retrieval-Based on Color Histogram and performance Evaluation of similarity Measurement"; Assam University Journal of science & Technology, Vol. 8 Number II , pp. 94-104,

Index Terms

Computer Science Pattern Recognition

Keywords

CBIR Feature Extraction Image Retrieval Similarity Matching WANG database Color Histogram