Abstract

Content Based Image Retrieval (CBIR) is an interesting and most emerging field in the area of ‘Image Search’, in which similar images for the given query image searched from the image database. Current systems use color, texture and shape information for image retrieval. In this paper we propose a method in which both color and texture features of the images are used to improve the retrieval results in terms of its accuracy. Color extraction and comparison are
performed using Conventional color histograms (CCH) and the Quadratic Distance Metric (QDM) and the texture extraction and comparison are performed using the concept of Pyramid Structure Wavelet Transform Model (PSWTM) and the Euclidean distance. Color and texture based image retrieval computes image features more accurately which are used to retrieve similar images from the database.

Reference

- Xiang-Yang Wang, Jun-Feng Wu, and Hong-Ying Yang "Robust image retrieval based on color histogram of local feature regions" Springer Netherlands, 2009 ISSN 1573-7721.
April 1993.

Index Terms

Computer Science

Information Retrieval

Key words

CBIR

Color based Search

Texture based Searching

Color Histogram

Pyramid Structure Wavelet Transform model

Euclidean Distance

Quadratic Distance Metric