Abstract

Content Based Image Retrieval (CBIR) is a process to retrieve a stored image from database by supplying an image as query instead of text. This can be done by proper feature extraction and querying process. The features like histogram, color values and edge detection plays very vital role in proper image retrieval. Here we have implemented a method of image retrieval using the histogram, color and edge detection features. In this method we used image segmentation in order to get a better accuracy percentage and this proved itself to be a very successful approach. We used our own computation method as well as some MATLAB functions. Canny’s edge detection technique and color values extraction after image segmentation gives a better accuracy level to our system. Finally we get top images matching to our query image using Euclidean distance.

References

1. Cosmin Stoica Spahiu, "A multimedia database server for information storage and
Content based Natural Image Retrieval using Histogram, Segmentation and Edge


Index Terms
Keywords

Gray color histogram, Segmentation, Edge detection, Lab color space