CS 663 : Project Report

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Paper Name:- Histogram Refinement for Content-Based Image Retrieval

(https://ieeexplore.ieee.org/document/572008/references#references)

Aim: Imposing additional algorithms on histogram based matching for Image Retrieval.

Algorithms Implemented:- 1) Color coherence vectors (CCV)

2) Centering refinement

Dataset:- Filtered and extracted 180 dataset images from dataset of 10,000 images. (" http://wang.ist.psu.edu/docs/related/")

Structure Of Dircetory:-

Discreption of the code:-

different functionalities implemented:-

- ---Listing Images from Database
- ---Looping through the queries
- ---Calculating CCV/Centering_Refinement of an image
- ---Discretizing the Image

CCV and Result:- Color Coherence Vector is implemented with color histogram. For every CCV calculated for an image is ranked using Color Histogram rank (or CCV rank). In 8 of the 10 cases, CCV's produced better results, while in 2 cases they produced worse results. In those 2 cases color histogram does better than CCV.

Centering Refinement and result:- Applied refinenment on 75% and 100% of image section. Considering computational constrainsts we applied it on lesser dataset.