

Abstract

On this final project, developing Content-based Image Retrieval based on color and edge feature. Color feature is extracted using Color Histogram, where this method show color intensity level or graylevel from an image. Retrieved Color Histogram will be compared between query image and database image using Histogram Comparasion. To extracting edge feature, Edge Detection method with modified Prewitt mask matrix are used. This method will find image's edge feature, which will compared between query image and database image. Using combination both feature extraction will be reduce some process such as comparing image which is not relevant. So that, images that haven't similarity color and edge feature will be eliminated with combination filter. To find out the effect from combining this features, it's necessary to comparing each feature. And based on experimental results, using combination of color and feature texture show the accuracy result lower which is 50% than using each feature separately, which is 55% for color extraction and 46% for edge extraction.

Keyword: *Content-based Image Retrieval, Color Histogram, Histogram Comparasion, Edge Detection, mask matrix Prewitt*