

Abstract

Expanding variety of information technology has many developed various seeking methods of content based, that is system Content Based image retrieval (CBIR) which is seeking mechanism of query image, this caused seeking of image based on text had not effective again.

This final project performs Content-based Image Retrieval (CBIR) system, to get image feature used extractor feature from image grayscale that is Sorted wavelet histogram. The method was a result of development image retrieval which implements wavelet transforms coefficients to histogram for feature. In the application of wavelet transform there are still features that can be analyzed by the texture. So in the retrieval process we can combine both of feature to obtain image which is relevant with image query. To calculate level of similarity with method similarity, between image query and image database uses euclidean distance. This system using four image classes that is Brodatz, Face, Flower, And Fingerprint. Which size 256 x 256 pixels.

The result from this final task is an application that can be used in course of image seeking and analyze how accurate is the CBIR application if using wavelet transform.

Keywords: *Content Based Image Retrieval, Sorted wavelet histogram, Wavelet transform*