Abstract

In this time, the *image* seeking base on text is not effective again caused by subjective assessment from user in representing an *image*, in consequence needed a system which can handle the *image* seeking uses *image* input. Seeking use query *image* based by looking like feature of an *image* or called by content based, such feature can be a *shape*, *color* or texture. To know how accurate is the *image* seeking uses content based hence in this final task will be created an Content Based *Image Retrieval* (CBIR) application. To get the feature *image*, used an extraction method that is *color* histogram to extracting the *color* feature and fourier descriptors to extracting the *shape* feature.

To get the *image retrieved*, the first step is user input the *image* query, then the *image* will be extracted using *color* histogram and fourier descriptors so that got the *color* feature and the *shape* feature. The *image* feature will be compared with the database *image* feature using *similarity* method. The higher the *similarity* value So the *image* can be say looks like. This system using four *image* classes that is Apple, Cup, Face And Rose, each class contain 30 *image*s which size 256 x 256 pixels and the file type is BMP, the *similarity* value can be choosen from 100% to 0% according to user's wish. To bound the *image* presented, the system will provide the *threshold* value that is 10, 20 and 30.

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 *color* histogram and fourier descriptors as the *image* feature extracting.

Keywords: *Content Based Image Retrieval, Color Histogram, Fourier Desciptors*