

Abstract

Along with the continued development of image database making searching method a image based on keyword is not enough. Beacause, name of image can be given not objective.

These problems built Content Based Image Retrieval based on color features extraction (Color Moments), texture features (Haar Wavelet) and shape features (Centroid Contour Distance) to obtained an appropriate with image query. Extraction of color features with Color Moments which is use a color probability distributions image that consist of 3 moments : mean, standar deviation and skewness. To extracting texture used decomposition Haar Wavelet approach pyramid-structured wavelet transform (PWT) which produces 12 feature texture. For shape extraction with Centroid Contour Distance calculating the distance from centroid to the edge of object. Calculating used angle 5^0 dan produces 72 shape feature.

The result showed that paralel combination of 3 method has the accuracy and perfromance result better also increased value of F-Measures than serial combination or without combination. Accuracy obtained 96.39% and performance 43.77% with difference value of F-Measures 19.65%.

Keywords : *content based image retrieval, color moments, haar wavelet, centroid contour distance.*