

Abstract

Content-Based Image Retrieval (CBIR) is an image search method is done by matching the visual content of the query image with images in the database. Matching is based on the features extracted from the query image. Characteristics embodied in the image consists of color features, shape, and texture.

In this final task aims to analyze and implement the curvelet transform to extract texture features in CBIR systems. This method to capture information from the image side which then produced curvelet coefficient matrix. After curvelet coefficients obtained then calculated the mean value and standard deviation as features that represent the texture image. The calculation of the similarity distance between image query and images in the database is done by using Euclidean distance.

As the evaluation system of Content-Based Image Retrieval success rate of retrieval systems is measured with precision to measure the accuracy of the search and recall to measure the strength of search. As well as the harmonic mean of the precision and recall then use fmeasure.

Keywords: *CBIR, Curvelet Transform, Texture Feature Extraction*