Abstract

Rapid development of information technolgy has made the amount of information that stored as images to increase. This information can be stored as data in database media. The huge amount of data can be a problem to get a needed information. To effectively using this image data, a system that could retrieve image data is needed. This systems are called *Content Based Image Retrieval System*

The conventional CBIR system retrieves relevant images that have some characteristisc with query image. However, an image can have different objects, and sometimes the user only needs an object or some part of the images to be retrieved. To solve this problem, local feature extraction technique can be used, and one of them is *Scale-invariant Feature Transform (SIFT).*

In this research, the CBIR system implementing the SIFT feature extraction would be developed. By using this algorithm, the similarity bertween query image and image database would be high, that cauisng a good image retrieval performance

Keywords: *Image Retrieval, Scale-invariant Feature Transform, SIFT, CBIR, Local Feature*