

Abstract

Text-based image retrieval is an image retrieval technique using semantic content of image. Semantic content implemented by adding metadata to image. Disadvantage of this technique is the different perceptions of each person to represent image semantically. To overcome disadvantage mentioned, appears content-based image retrieval (CBIR), an image retrieval techniques using image features such as color, texture, shape, or the combination. However, these low-level features cannot yet obtain semantic content of an image well.

This final task implements a system that combines text and content-based image retrieval to overcome the shortage of CBIR. On text-based image retrieval, image metadata obtained by processing the text embedded on a web page where the image obtained. While the CBIR utilizing color features extracted from the image to the color histogram.

Results showed that the system combines text-based image retrieval and CBIR has a better performance of CBIR systems that implement only the color feature. Combining these two techniques help to focused text-based image retrieval to search only on the images which color have closest similarity to the image query so that the results can be more relevant, semantically and visually.

Keywords : *text-based image retrieval, CBIR, color histogram*