An Efficient Technique for Image Retrieval from the Large Database on the Basis of Color and Texture

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Abstract

Now a day’s development of multimedia technology, the possibilities of utility of large databases is rapidly increasing. To handle its management and retrieval CBIR is the best and effective method. CBIR technique uses the visual contents like as color, shape and texture that are called features, to searching, browsing, and navigation of query images for large image databases. Color is the visual perceptual property corresponding in humans to the categories called red, blue and yellow etc. Texture is the image and especially physical quality of a surface. Texture is the characteristic structure of the interwoven or intertwined outfit, strands or the like that make up a textile fabric. In this paper we present utility of CBIR system with color and texture features. And we design a color filter with the help of extract the red channel, green channel and blue channel from the original image. After it we find a texture of all channels with the help of statistical method. The combination of texture of red channel, green channel and blue channel we create a feature vector for all images of the database. Experimental results are shows the average accuracy, average precision rate and average retrieval rate. That is better than other existing method.
References

Index Terms

Computer Science

Image Processing

Keywords

CBIR, feature vector, Euclidean distance, precision and recall.