Abstract

An image can be retrieved from number of features contained in it. But it depends upon its format, which features are best selected for the proper retrieval. In this paper, the RGB, HSV, YIQ and dithered images are retrieved using two computational retrieval techniques; DCT and Wavelet decomposition. When used DCT transformation technique, only HSV images are giving the best results, while when Wavelet transformation is used, the HSV, Dithered and YIQ images are giving satisfactory results, out of which from the accuracy point of view, HSV images are having maximum degree of accuracy in correct retrieval. After analysis, it is found that in DCT as well as in Wavelet decomposition techniques, the HSV images are correctly retrieved.

References

Texture Feature Extraction of RGB, HSV, YIQ and Dithered Images using Wavelet and DCT Decomposition Techniques

- Teinwei Tsai, Yo-ping Huang, Te-Wei Chiang, “Image Retrieval Based on Dominant Texture Features”; IEEE ISIE, pp 441- 446, July 9-12, 2006.

Index Terms

Computer Science

Image Processing
Keywords

HSV (Hue Saturation Value)  YIQ (NTSC luminance (Y) and chrominance (I and Q) color components)