Content Based Image Retrieval (CBIR) is an active research field in the past decades. Against the traditional system where the images are retrieved based on the key word search, CBIR systems retrieve the images based on the visual content. Even though some of the modern systems like relevance feedback system which improves the performance of CBIR systems exists, the importance of retrieving the images based on the low level features like Colour, Texture and Shape still determine the development of CBIR systems and cannot be undermined. Colour Histograms, Histogram Distance Measurements, Colour Spaces and Quantization play an important role in retrieving images based on similarities. In this paper, we present a novel method for determining the efficiency of different quantization methods using HSV Colour space and measuring the Intersection distance of the images with a uniform size of 256 X 256 pixels for efficient image retrieval and comparing the time utilized for retrieval.
Performance Efficiency of Quantization using HSV Colour Space and Intersection Distance in CBIR

Journal of Engineering Science and Technology (IJEST), Vol. 3 No. 4 ISSN : 0975-5462
- Bing Wang -2008 - "A Semantic Description For Content-Based Image Retrieval"; at College Of Mathematics And Computer Science, Hebei University, Baoding 071002, China
- Bo Di – 2007 - "An efficient image retrieval approach base on Colour clustering"; at Third International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IIHMSP
- Ch. Kavitha, Dr. B. Prabhakara Rao & Dr. A. Govardhan - Feb 2011 - "An Efficient Content Based image Retrieval Using Colour And Texture Of Image Subblocks"; in International Journal of Engineering Science and Technology (IJEST), Vol. 3 No. 2, ISSN : 0975-5462
- Manimala Singlia and K. Hemacllandran – 2011- "Performance analysis of Colour Spaces In Image Retrieval"; in Assam University Journal of Science & Technology: Physical Sciences and Technology Vol. 7 Number 11 94-104. : ISSN 0975-2773
- Sangoh Jeong -Mar. 15, 2001 - "Histogram-Based Colour Image Retrieval"

Keywords
- Content Based Image Retrieval (cbir) Hsv Colour Space Intersection Distance Quantization

Index Terms
- Computer Science Pattern Recognition

2 / 3