Abstract

In this paper a hybrid algorithm for image retrieval based on texture feature extraction is proposed. Proposed algorithm can be implemented for texture feature retrieval using Vector Quantization (VQ). For texture feature retrieval Linde-Buzo-Gray (LBG) algorithms is used by dividing each image into pixel blocks of size 2X2 where each pixel consists of green, red and blue component. A training vector of dimension 12 can be obtained by putting these in a row. A training set is collection of such training vectors. Size of codebook will be 16X12. In the proposed method K-means algorithm is applied on existing LBG codebook and results are compared with LBG algorithm. From experiments it is found that proposed algorithm gives better relevance percentage as compared to the LBG algorithm.

References

- Dr. H. B. Kekre ,Dr. Tanuja K. Sarode,"New Clustering Algorithm for Vector
Hybrid Algorithm for Image Retrieval using LBG and K-means


- Bang Huang, Linbo Xie "An Improved LBG algorithm for Image Vector 8-1-4244-5540-9, 2010 IEEE.


- A. Kannan, Dr. V. Mohan, Dr. N. Anbazhagan "Image Clustering and Retrieval using Image Mining Techniques" International Conference on Computational Intelligence and Computing Research 2010 IEEE.


**Index Terms**

Computer Science

Image Processing
Keywords
LBG Algorithm  K-Means Algorithm  Clustering  CBIR