Abstract

Content based Image retrieval (CBIR) means search the contents of the image instead of information and capture images from database as per the user requirement. Content refers to as color, shapes, textures or any other information. The image retrieval is interesting and fastest developing methodology in all fields. It is effective and well-organized approach for retrieving the image from large scale database. CBIR is a technique to take input as query object and gives output from an image database. To build up content based image retrieval system, to improve various processes implicated in retrieval like feature extraction, Image retrieval and similarity matching techniques. In this paper surveys has been conducted on some features
such as color, texture and shape retrieval of images from the database and also study to
compared content based image retrieval features like Color, texture and shape for efficient and
accurate image retrieval. After going through exhaustive analysis of these CBIR techniques
there is various parameters to review the paper, some of them it is found that each technique
have its own strengths and limitations. So this paper gives summarization of the different
features of images with their functionality for content based image retrieval systems.

References

- Chih-Chin Lai, Member, IEEE, and Ying-Chuan Chen," A User-Oriented Image
  Retrieval System Based on Interactive Genetic Algorithm"; IEEE Transactions on
- T. Chang, and C. C. J. Kuo; "Texture analysis and classification with
  tree-structured wavelet transform"; IEEE Transactions on Image Processing, vol. 2,
  no. 4, pp. 429-441, October 1993
- P. S. Hiremath and J. Pujari; "Content Based Image Retrieval based on Color,
  Texture and Shape features using Image and its complement"; 15th International
- Mohd. Danish*, Ritika Rawat **, Ratika Sharma; "Comparative Study on CBIR
  839-844
- Akshay Alex, Pranay Goyal et al. – "Content Based Image Retrieval Using Spatial
  Features"; International Journal of Engineering Trends and Technology (IJETT) – Volume 8
  Number 6- Feb 2014.
- J. Huang, et al. , "Image indexing using color correlogram"; IEEE Int. Conf.
  on Computer Vision And Pattern Recognition, pp. 762-768, Puerto Rico, June 1997.
- Chintan K. Panchal, Risha A. Tiwari; "A Survey on CBIR using Low level Features

  4, Issue 10, October 2014
- Neetesh Gupta, Dr. Vijay Anant Athavale; "Comparative study of different low level
  feature Extraction Techniques for Content Based Image Retrieval"; IJCTEE, Volume 1,
  Issue 1, August 2011.
- G. Pass, and R. Zabith; "Histogram refinement for content-based image
- B. S. Manjunath, Jens-Rainer Ohm et al; "Color and Texture Descriptors"; In: IEEE
  Transactions on Circuits and Systems for Video Technology, Vol. 11, No. 6, June
  2001, pp70-715.
- T. Gevers, and A. W. M. Smeulders; "Pictoseek: Combining color and shape
  invariant features for image retrieval"; IEEE Transactions on Image Processing, Vol. 9,
- T. Gevers, and A. W. M. Smeulders; "Content-based image retrieval by
Analytical Study of CBIR Techniques


- Dr. D. S. Bormane, Meenakshi Madugunki, Sonali Bhadoria, Dr. C. G. Dethe, "Comparison of Different CBIR Techniques", 2011 IEEE Conference.

**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Cbir  feature Extraction  Color  Shape And Textures