Abstract

Content Based Image Retrieval (CBIR) is a traditional and developing trend in Digital Image Processing. Therefore the use of CBIR to search and retrieve the query image from wide range of database is increasing. In this paper we are going to explore an efficient image retrieval technique which uses local color, shape and texture features. So, efficient image retrieval algorithms based on RGB histograms, Geometric moment and Co-occurrence Model is proposed for color, shape and texture respectively. Results based on this approach are found encouraging in terms of color, shape and texture image classification accuracy. After the features are selected, an SVM classifier is trained to distinguish between relevant and irrelevant images accordingly.
References

- Darshak G. Thakore, A. I. Trivedi, "Content based image retrieval techniques – Issues, analysis and the state of the art.
- Philippe H. Gosselin Matthieu Cord, "A Comparison of Active Classification Methods for ContentBased Image Retrieval;".

Index Terms

Computer Science
Image Processing

Keywords
Content Based image retrieval  Support Vector Machine  RGB Color model
Co-occurrence Model
Geometric Moment.