Abstract

The moment invariants are used as a feature space for pattern recognition. Shape and texture representation is a fundamental issue in the newly emerging multimedia applications. This work addresses the problem of retrieval in case of rotation, shape, resizing, and translation of an image in the content based image retrieval system. A modified Zernike moment with canny edge detector can be used for the retrieval of an image for such cases. The proposed method is very useful and efficient to retrieve a query image from a very huge complex database. The method has been tested over 400 images from four different groups like Cars (automobiles), Vegetables, Human faces, Natural images etc. Through the result it is found that the proposed method works equally better in all kind of images than the available techniques.
References

- Y. S. Abu-Mostafa and D. Psaltis, "Image Normalization by Complex Moments," IEEE.

Index Terms

Computer Science
Pattern Recognition
Keywords

Content Based Image Retrieval  Invariant Features  Zernike Moments  Canny Edge Detector  Euclidian Distance.