



**RESEARCH ARTICLE**

# **Integrated Feature Extraction for Image Retrieval**

Poorani M<sup>1</sup>, Prathiba T<sup>2</sup>, Ravindran G<sup>3</sup>

PG Student, Department of Computer and Communication Engineering,  
Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India <sup>1</sup>  
Assistant Professor, Department of Electronics and Communication Engineering,  
Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India <sup>2,3</sup>  
*poorani31@gmail.com<sup>1</sup>, prathibakarthy@gmail.com<sup>2</sup>, ravi.mspt2007@yahoo.co.in<sup>3</sup>*

---

***Abstract— To retrieve the images from large database that are highly related to the query image where query image is given by user. Three features are used for retrieving the images, which are color, shape and texture. These features are extracted by different techniques. Color feature is extracted by Color Histogram and Color Descriptor. Shape feature is extracted by Hu Moment and Edge detection Method. Texture feature is extracted by Gray Level co-occurrence matrix and texture descriptor. We Compare these three features analyse which is the most suitable features for image retrieval. The robust feature vector set is a combination of three features lead to best results.***

***Indexed Terms: - CBIR, Color Descriptor, Color Histogram, Sobel, Canny, Hu Moment Invariant, Texture descriptor, GLCM.***

---

Full Text: <http://www.ijcsmc.com/docs/papers/February2013/V2I2201307.pdf>