Abstract

In this paper, we granted the face recognition system and it is based on face sketches, shape and texture instructions of a face image. Hence, certainly seeking through an image from the database using a sketch picture is very applicable. It will not only benefit for the police to encounter a group of hidden suspects, and also may benefit in eyewitness and the expert can customize the sketch picture the suspect interchangeable is based on the related images are recovered. The proposed system consist of two components and they are: Pseudo-sketch synthesis and Sketch recognition. The pseudo-sketch generation approach is based on local linear preserving of geometry among images and sketch images, which is influenced by the concept of locally linear embedding. The modern approach for the Face image can be improve from Eigen faces in the Principal component analysis (PCA) delegation. Since Eigen face is computed from the training set, we can show that the recreated face images can also be expressed as the linear combination of training samples.

References

**Index Terms**

Computer Science  
Image Processing

**Keywords**
Face sketches, shape and texture information, Pseudo-sketch synthesis, Principal component analysis (PCA)