Abstract

Recognizing human age group automatically through facial image analysis has many applications, such as human computer interaction and multimedia communication. The aging process involves many factors such as the person's gene, health, living style, living location and weather conditions. This paper presents an automatic human age group Recognition system based on human facial images. Features are extracted using two approaches namely Principal Component Analysis (PCA) coefficients and Discrete Cosine Transform (DCT) coefficients and the classification is done using Euclidian Distance classifier. The results shows DCT based approach performs better as compared to results using PCA.

References


Index Terms

Computer Science

Pattern Recognition

Keywords
HCI, PCA, DCT, Euclidean Distance, Age classification, Facial Images, MPCA