Abstract

Face is a multidimensional intricate structure that demands good computing technique for recalling it. This paper proposes a new diagonally assisted face recognition technique using Discrete Cosine Transform (DCT). Proposed work divides an image into matrix to apply DCT. Working scheme i.e. DA-DCT selects diagonal coefficient to retain low, moderate and high frequency coefficients for each block. Proficiency of the proposed work has been checked for self-created database using MATLAB. Experimental results prove that DA-DCT performs much better than PCA.

References

2. Xiaolong Fan and Brijesh Verma, “Selection and fusion of facial features for face
Diagonally Assisted DCT Technique for Face Recognition: DA-DCT


Index Terms

Computer Science Pattern Recognition
Keywords

Discrete Cosine Transform, Face recognition