

# Face Detection Using Eigenfaces Matlab Code Pdf Download

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## FACE RECOGNITION USING KERNEL EIGENFACES

PIXELS OF A FACE IMAGE, WE INVESTIGATE THE USE OF KERNEL PCA FOR FACE RECOGNITION AND COMPARE ITS PERFORMANCE AGAINST THE EIGENFACE METHOD.

## 2. KERNEL PRINCIPAL COMPONENT ANALYSIS

GIVEN A SET OF ZERO-MEAN OBSERVATIONS  $X_k$ ,  $K = 1, \dots, M$ ,  $X_k \in \mathbb{R}^N$ , AND  $C = \frac{1}{M} \sum_{k=1}^M X_k X_k^T$ , THE COVARIANCE MATRIX IS

### PCA AIMS TO FIND THE PROJECTION DIRECTION THAT

Maxi- Feb 16th, 2024 Eigenfaces And Fisherfaces - A Comparison Of Face ... Principal Components Transform Input Image To Lower Dimensional Feature Vector  $Y_k = W_i T^* f_{ij}$  2.2. 2D PCA In The PCA-based Face Recognition Technique, The 2D Face Image Matrices Must Be Previously Transformed Into 1D Image Vectors. The Resulting Image Vectors Of Faces Usually Lead To A High Dimensional Image Vector Space, Where It Is Difficult Jan 11th, 2024.

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