

Assignment 3 (Due: June, 15, 2019)

Download a face recognition database from MIT-The database of faces:

<http://www.cl.cam.ac.uk/research/dtg/attarchive/facedatabase.html>.

1. Please implement our learned VJ face detection method, including Harr feature extraction, good harr feature selection via adaboost, and the cascade classifier training. Please show the detection result of a face image from the dataset and any face image collected by yourself.
2. Please use our learned PCA knowledge to extract eigenfaces, and then do some recognition test (divide the dataset into training set and testing set, demo the process of input one face, output his others). Moreover, use your own picture as a test sample, find which person has the most similar face to you.