

Assignment 7 – Bank Robber Facial Reconstruction

Due November 11, Tuesday



(100%) The above images are screenshots of a bank robber from a bank's surveillance camera. As you can see, the face was blurred and not in a frontal position. Now, please use FaceGen to reconstruct his face in 3D and generate the frontal facial image.

Input: Bank Robber's facial images from the video.

Output: Reconstructed frontal face and biometric parameter values.

Here is the suggested procedure:

1. Download FaceGen, if you have a PC.
2. Create a face based on the images given from Assignment 7 folder.
3. Rotate the 3D model to the same position in the photos.
4. Adjust facial parameters of the 3D model to fit the photo (see the Excel data)
5. Take a screen shot of the 3D model in the photo position.
6. Take a screen shot of the 3D model in the frontal view.
7. Fill in the values to the spreadsheet for facial biometric parameters.
8. Zip the reconstructed frontal face and the spreadsheet and submit the file to BB.

(Bonus 20%) Analyze the reconstruction data collected from the class and write a report about the convergence of the facial biometric data and determine which one is the closest one to the ground truth.