DataSet

Name: CUHK Face Sketch Database (CUFS) http://mmlab.ie.cuhk.edu.hk/facesketch.html

I used 50 images (20 female and 30 male)
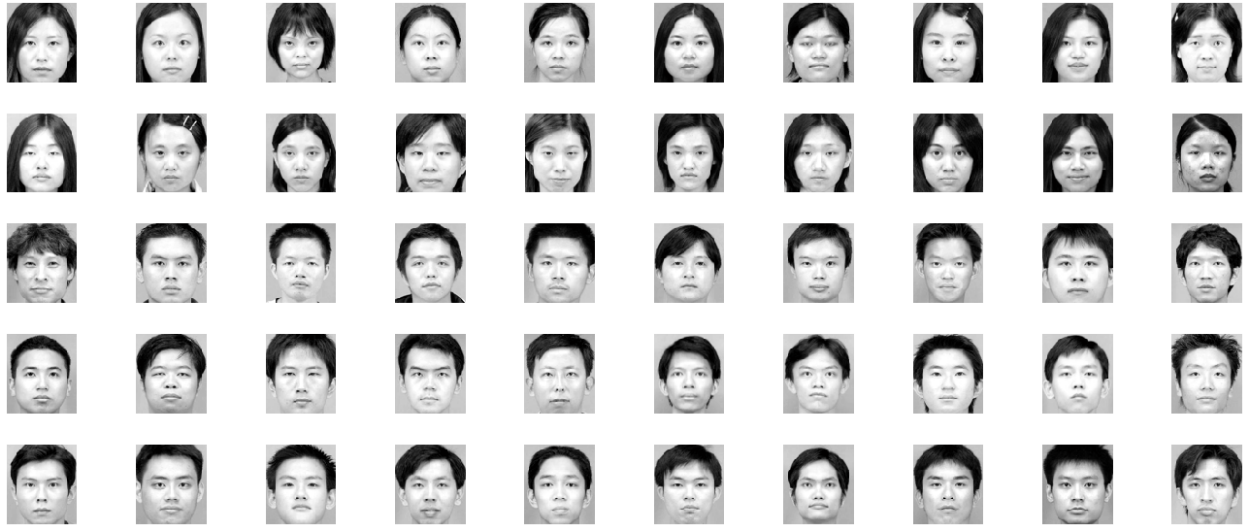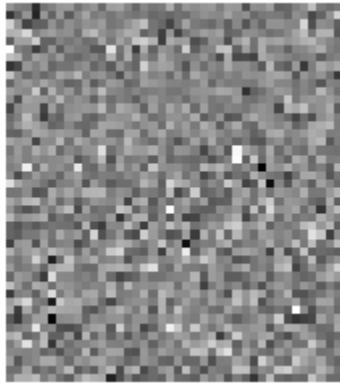
PCA

Mean face:
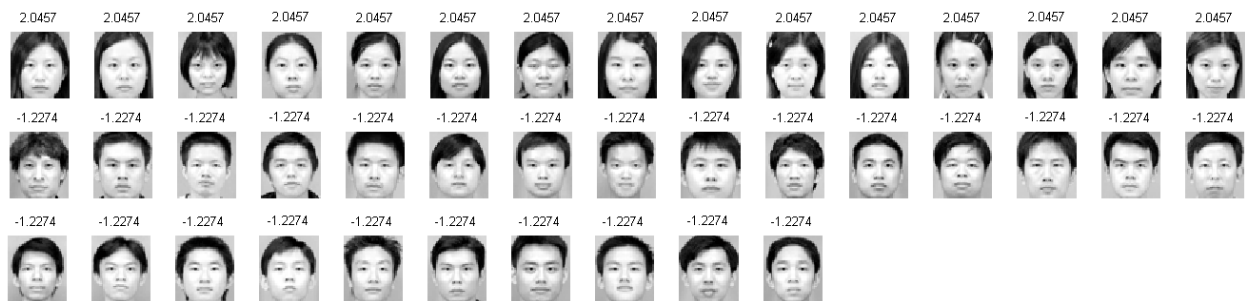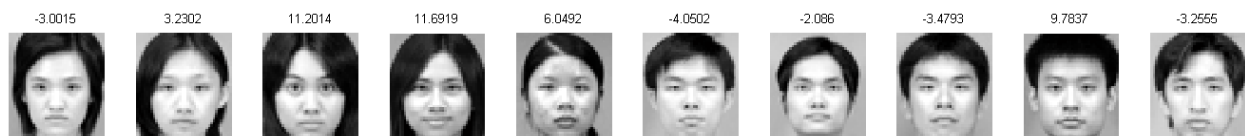

Eigen faces:

LDA

The linear mapping
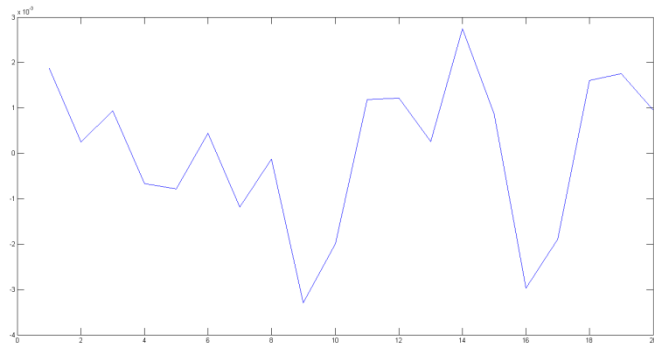

The coefficients for training images

The coefficients for test images

LDA+PCA

The linear mapping

Reconstructed discriminative face

The coefficients for training images

| -3.7026 | -3.6588 | -2.2098 | -1.227 | -3.3061 | -4.1844 | -1.8894 | -3.4951 | -3.8924 | -4.0754 | -3.2778 | -2.0234 | -4.5457 | -2.2453 | -3.2133 |

| 0.3214 | 1.9686 | 2.1022 | 1.4224 | 1.6756 | 1.2621 | 1.5681 | 1.3679 | 2.6571 | 2.4016 | 2.4149 | 2.9393 | 0.34474 | 3.8181 | 0.85159 |

| 2.6281 | 1.0211 | 3.2207 | 1.6854 | 1.9825 | 2.0661 | 1.5193 | 3.1322 | 2.8909 | -0.3153 |

The coefficients for test images

| -3.5107 | -9.3777 | -0.46323 | -0.072544 | -2.4553 | 2.0324 | 2.8693 | 3.1528 | 2.5521 | 1.5628 |