

This homework is able to recognize a person's face by comparing facial images to that of a known person.

The experimental dataset is uploaded at “Modules” week 10. There are 40 subjects in this dataset and each subject has ten images. The size of image is 112 x 92 pixels.

Tasks:

1. 1NN: Do classification using KNN (1NN in this homework). You need implement 1NN, not use the existing function directly.
2. Implement 5-fold cross validation. During every iteration, four-fold data are used as training data, and one-fold data are used as testing data.
3. Report the average prediction accuracy.
4. Submit Jupyter notebook at ELMS