HW 4

Due Oct. 30

* Use the given data set.
* Neural network Problem

1. Set the numbers of hidden layers and node.
2. By using given training data of 2048x1 as input, train the given data set.
3. Test the data by using test data.
4. If you cannot get good results then Go to 1 and repeat procedure by changing numbers.

* **CNN** Problem

1. Refer the link “Create Simple Deep Learning Network for Classification” in demo in Matlab.
2. Change given training vector of 2048x1 as image of 64\*32 as an example in your training and test files.
3. Train and CNN and test the CNN with the test images.
4. If you cannot get good results then Go to 1 and repeat procedure by changing parameters.

* **Important Notice**

1. Print out your HW report
2. Your report should have the following information
   1. Performance of your classifier.
   2. Discussion of your results
   3. Brief description of your Matlab code (Full version is not necessary).