```
[Pre-iteration 1] 88.631579 percent of training data is classified correctly
                  88.650000 percent of testing data is classified correctly
                  Dictionary error metric is 0.712404
                 Improved dictionary error metric is 0.634991
[Post-iteration 1] 88.947368 percent of training data is classified correctly
                  88.690000 percent of testing data is classified correctly
[Pre-iteration 2] 94.052632 percent of training data is classified correctly
                  92.820000 percent of testing data is classified correctly
                  Dictionary error metric is 0.589764
                 Improved dictionary error metric is 0.577650
[Post-iteration 2] 94.842105 percent of training data is classified correctly
                  93.250000 percent of testing data is classified correctly
[Pre-iteration 3] 95.368421 percent of training data is classified correctly
                  94.350000 percent of testing data is classified correctly
                  Dictionary error metric is 0.571052
                 Improved dictionary error metric is 0.565665
[Post-iteration 3] 95.368421 percent of training data is classified correctly
                  94.530000 percent of testing data is classified correctly
[Pre-iteration 4] 95.736842 percent of training data is classified correctly
                  95.080000 percent of testing data is classified correctly
                  Dictionary error metric is 0.563883
                 Improved dictionary error metric is 0.560474
[Post-iteration 4] 95.578947 percent of training data is classified correctly
                  95.060000 percent of testing data is classified correctly
[Pre-iteration 5] 95.894737 percent of training data is classified correctly
                  95.310000 percent of testing data is classified correctly
                  Dictionary error metric is 0.559580
                 Improved dictionary error metric is 0.556874
[Post-iteration 5] 96.052632 percent of training data is classified correctly
                  95.290000 percent of testing data is classified correctly
[Pre-iteration 6] 95.894737 percent of training data is classified correctly
                  95.270000 percent of testing data is classified correctly
                  Dictionary error metric is 0.556680
                 Improved dictionary error metric is 0.554480
[Post-iteration 6] 96.105263 percent of training data is classified correctly
                  95.150000 percent of testing data is classified correctly
[Pre-iteration 7] 96.052632 percent of training data is classified correctly
                  94.910000 percent of testing data is classified correctly
                  Dictionary error metric is 0.554882
                 Improved dictionary error metric is 0.553087
[Post-iteration 7] 96.210526 percent of training data is classified correctly
                  94.860000 percent of testing data is classified correctly
[Pre-iteration 8] 96.315789 percent of training data is classified correctly
                  94.840000 percent of testing data is classified correctly
                  Dictionary error metric is 0.554335
                 Improved dictionary error metric is 0.552707
```

```
[Post-iteration 8] 96.368421 percent of training data is classified correctly
                   94.830000 percent of testing data is classified correctly
[Pre-iteration 9] 96.421053 percent of training data is classified correctly
                   95.100000 percent of testing data is classified correctly
                   Dictionary error metric is 0.552895
                  Improved dictionary error metric is 0.551259
[Post-iteration 9] 96.473684 percent of training data is classified correctly
                   95.070000 percent of testing data is classified correctly
[Pre-iteration 10] 96.210526 percent of training data is classified correctly
                   94.950000 percent of testing data is classified correctly
                   Dictionary error metric is 0.552788
                  Improved dictionary error metric is 0.551327
[Post-iteration 10] 96.210526 percent of training data is classified correctly
                   94.920000 percent of testing data is classified correctly
Elapsed time is 156.026794 seconds.
>> load('trainingdata.mat')
>> load('testingdata.mat')
>>
```