Project 3. Writing Style Classification using SVM and FLD CSE555 Spring 2006

1 Task Description:

Classify tow types of writing styles: hand-printing and cursive by using SVM and FLD. The project consists of the following parts:

- Learn and use LIBSVM
- Fisher linear discriminant
- Training: split the dataset into two subsets, 70% for training and 30% for testing.
- Evaluation: evaluate and compare the performance of the two classifiers.

2 Data and Tools:

- Macro features of 824 handwriting documents: /projects/srihari/cse555/Proj3/Feature-Vectors.txt
 (See the README file for the explanation of the feature file.)
- LIBSVM: http://www.csie.ntu.edu.tw/~cjlin/libsvm/

3 Materials to be submitted:

- Source code (on-line using "submit_cse555")
- Project report, which should include the following parts:
 - 1. Description and explanation of your using of LIBSVM
 - 2. Description of your implementation of FLD
 - 3. Description of your experiments setup including training and testing
 - 4. Performance evaluations
 - 5. Comparison and conclusion

4 Due Date:

- Source code: Wednesday, April 26, midnight
- Report: Thursday, April 27, in class.