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Lappeenranta University of Technology

LUT Machine Vision and Pattern Recognition

2015-11-30

BM40A0700 Pattern Recognition

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Exercise 8 solutions: Common linear and nonlinear classifiers

- 1. Linear support vector machine (SVM) (2 points): not published.
- 2. Nonlinear SVM classification (1 point): A Matlab function

testclass = svm2(traindata, trainclass, testdata, C)

that performs classification of testdata using a second-order polynomial SVM is given as a separate file.

Additional files: data1.mat, data2.mat, data3.mat, Kern.m, svm2.m.

3. K-nearest-neighbour (kNN) classifier (1 point): not published.