Human-Oriented Robotics

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Exercise 6:

k-NN, Cross Validation, Performance Measures - Solutions -

Exercise 6.1: Classification with k-NN

The k-NN classifier is implemented in classifyknn.m and can be run using RunKNN.m.

The additional distance metrics are implemented in calclinorm.m and calclinfnorm.m. A test script for the distance metrics can be found in TestCalcDistances.m.

Exercise 6.2: Cross-Validation

See RunKNNCV.m.

Exercise 6.3: Classification Comparison

Execute RunSVMCV.m to run 5-fold cross validation for the linear and RBF SVM.