

NAI Programming task 1

Deadline: week 11-15.03 (tutorials)

K-nearest-neighbours

Implement k-nearest-neighbours algorithm. Program works on any data which attributes are numerical except of decision attribute.

Program should be tested on data from iris folder. File 'train.txt' contains cases from training set. File 'test.txt' contains cases from test set. Program reads the data from training set, asks about k number and classify each case from the test set.

As a result: Compute accuracy (number of correctly classified examples over number of all examples).

Provide user interface to manually input any test example for classification and get the answer which class it should belong to.

Optional: Plot accuracy versus K.