

Machine Learning

Exercise Sheet 1

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Exercise 1: Weka (4 points)

Install software packet Weka 3.6: <http://www.cs.waikato.ac.nz/ml/weka/>.

Download the jarfile with the 37 classification problems and unpack the datasets.

Start the Weka and load Iris dataset. Open the tab „Visualize“. Describe what you see there.

Open the tab „Classify“ and choose the classifier `functions/SMO`. Start the evaluation run (*10-fold cross validation*) with the classifier and observe the outputs of classifiers. Jot down the result („Correctly Classified Instances“). Try out some other classifiers and note the results. Which classifier does yield the best results?

Exercise 2: R (6 points)

Install the R 2.13.2: <http://www.r-project.org/>.

Download „An Introduction to R“: <http://cran.r-project.org/doc/manuals/R-intro.pdf>. Read the capital 1 of these introduction and implement Appendix A (A sample session). Build a screenshot in the center of the session (with a graphic) and send it to ldrumond@ismll.de and osman@ismll.de.