Exercises to the lecture

Selected areas of Pervasive Computing

Winter term 2013 Stephan Sigg (ssigg@gwdg.de) Exercise: 13.11.2013, 16:15 – 17:45

1 Classification and interpretation

In the lecture we have discussed various steps involved in acquiring, processing and interpreting data. Utilise the data in the file 'data.txt' for this exercise to

a) pre-process the data

b) extract meaningful features

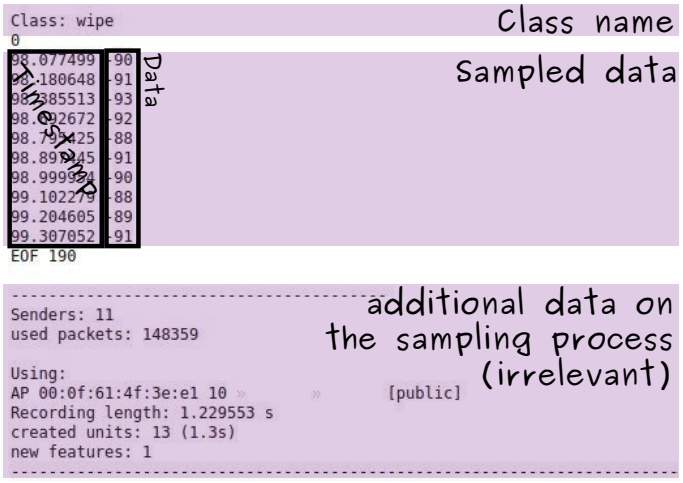
c) classify the samples for four distinct classes

d) represent the results achieved (e.g. Classification Accuracy, Information Score, Brier score, AUC score).

Please present/sketch the distinct steps you have taken in all cases. For the classification, standard data-mining toolkits can be used[1].

Representation of the data

The file 'data.txt' contains a series of recordings for four classes. The interpretations of the various recordings are as follows:



[1] Orange: http://orange.biolab.si/; Weka: http://www.cs.waikato.ac.nz/ml/weka/