

Lab 4

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Exercise 1

In the file `ex1.py` three generators are used to provide 3 different random datasets. The SVM algorithm is applied to the train set of each dataset, and is plotted in the figures 1, 2 and 3. The train data is shown with circle markers, while the test data uses crosses. The SVM decision regions are also filled with color, in order to visually see the behavior of the classifier.

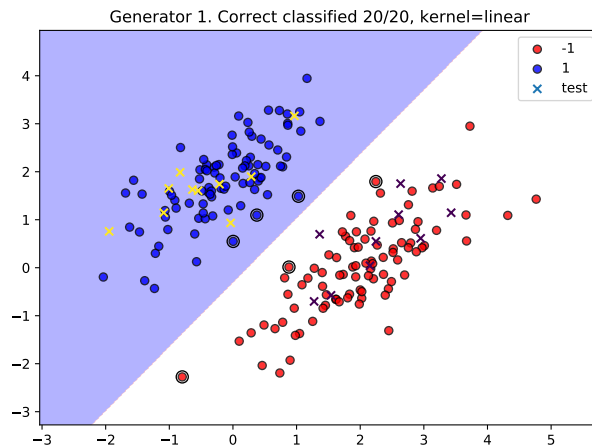


Figure 1: Dataset of the generator 1

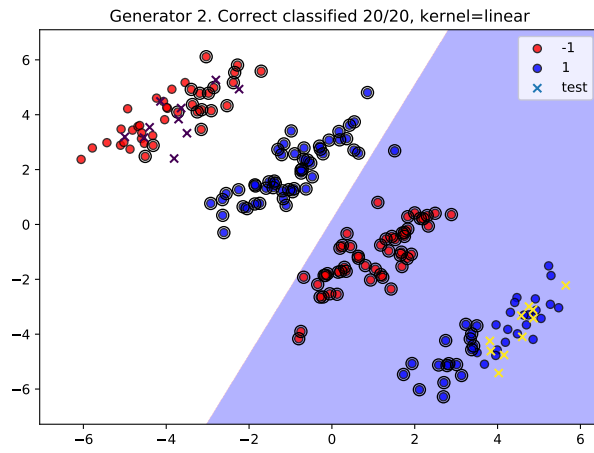


Figure 2: Dataset of the generator 2

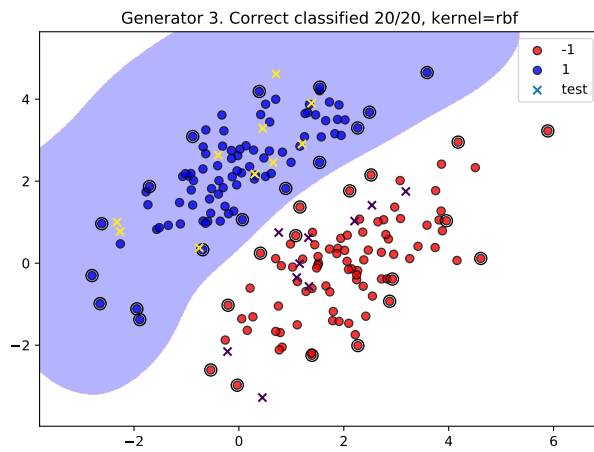


Figure 3: Dataset of the generator 3