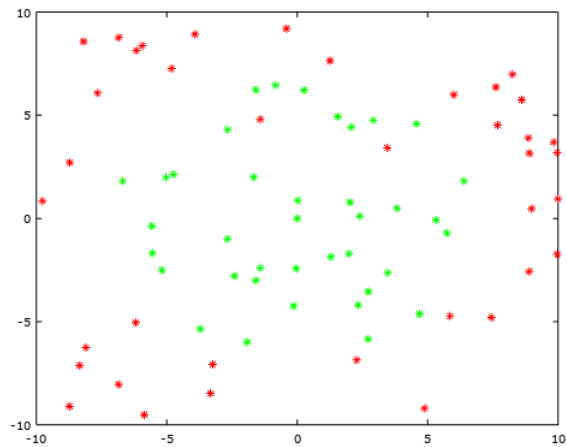# EXERCISE 5

DR. VICTOR UC CETINA

1. Binary Classification through AdaBoost

(1) Download the data file "dataCircle.mat" (or "dataCircle.txt" if you are not using matlab) which contains a matrix of size 102×3. The first 40 rows are positive examples (label 1) of points in 2 dimensions. The last 62 rows are negative examples (label 0) also in 2 dimensions.

(2) Implement in your favorite programming language the AdaBoost algorithm using as weak classifiers lines parallel to the x and y axis, so that you classify correctly both types of data.

(3) Plot the data points using one color for each class of data. Also, plot the weak classifier lines .

(4) Prepare a report containing your final model (including parameters), and your graph.

2. Exercise Submission

- Deadline: 07.06.2017
- Note: Do not forget to include your names in the report!