TBMI26 – Computer Assignment Reports  
Boosting

Deadline – March 15 2019

Author/-s:

In order to pass the assignment you will need to answer the following questions and upload the document to LISAM. **You will also need to upload all code in .m-file format**. We will correct the reports continuously so feel free to send them as soon as possible. If you meet the deadline you will have the lab part of the course reported in LADOK together with the exam. If not, you’ll get the lab part reported during the re-exam period.

1. **Plot how the classification accuracy on training data and test data depend on the number of weak classifiers (in the same plot). Be sure to include the number of training data (non-faces + faces), test-data (non-faces + faces), and the number of Haar-Features.**
2. **How many weak classifiers did you use when training? How many of them did you use for the final strong classifier? Why?**
3. **What is the accuracy on the test data after applying the optimized strong classifier?**
4. **Plot the Haar-features selected by your classifier (one for each weak classifier). If you have many weak classifiers, select some representative subset.**
5. **Plot some of the misclassified faces and non-faces that seem hard to classify correctly. Why do you think they are difficult to classify?**
6. **Defend your results. Are they reasonable?**
7. **Can we expect perfect results? Motivate your answer.**