SGN-2556 PATTERN RECOGNITION

EXAM 1: 22-05-2009/Jussi Tohka

Non-programmable pocket calculators are allowed

1. Generalized linear discriminant functions and margins. Explain what generalized linear discriminat functions are and how to train a classifier based on these. What are margins, how are they used, and what purpose do they serve with classifiers based on generalized linear discriminent functions?
2. Compare the use of stopped splitting with the use of pruning when training decision trees based on the CART methodology.
3. Bagging and boosting in classifier design.
4. Hierarchical clustering.