

MACHINE LEARNING

exam topics 2017

1. General machine learning dilemmas (overtraining, the curse of dimensionality)
2. Decision tree classifiers (ID3, c4.5)
3. Linear machines and the perceptron classifier
4. Support Vector Machines
5. Regression
6. Neural networks
7. Bayes decision theory (definitions and discriminant functions)
8. Parameter estimation by Maximum-likelihood and Bayes-estimation
9. Parametric classifiers (naïve Bayes)
10. Non-parametric classifiers (Parzen windows, k-nearest neighbour)
11. Clustering
12. Generative modeling (EM algorithm)
13. Recommender systems
14. Reinforcement learning