Data Mining: Practical Assignment #5 (pre-sheet)

Due on Thu & Fri, Jun 05-06 2014, 10:15am-13:15 & 14:15am-17:15

Pre-Task 1

This is a precursor for the upcoming practical courses, so that you can prepare the topics with the according literature at home. The assignment sheets will be handed out in the practical course to be solved there. The sheets will be uploaded in the Data Mining Commsy-room after the Friday group.

For the Data Mining Practical Course on Thursday (05.06.14) and Friday (05.06.14) inform yourself or, respectively, recapitulate the following topics:

1. Unsupervised learning and cluster algorithms, especially learning with Self-Organizing-Maps (SOM, Kohonen Maps), and the K-Means algorithm.

2. Genetic algorithms and their most important operators.

Recommended literature:

1. Eiben, A. E., Smith, J. E. Introduction to evolutionary computing. Springer, 2003.

2. Han J. & Kamber, M. Data mining: Concepts and techniques. Elsevier/Morgan Kaufmann, Amsterdam, 2006.

3. Kantardzic, M.: Data mining : concepts, models, methods, and algorithms. Wiley, NY, 2011. (!)

4. Kohonen, T.: Self-organizing maps. Springer, Berlin, 1995.

5. Mitchell Tom M.: Machine learning. McGrawHill, NY, 2010.

All books shoud be lendable via the Informatics library.