Exercises for
Computational Intelligence
Winter Term 2007
Sheet 0

Task 0.1
List some of the heuristics that you have used so far. What are your experiences with heuristics? In which cases would you recommend to use heuristics?

Task 0.2
How would you implement a artificial neural net by a computer programm? Discuss the different components of an ANN you have to represent and the data structures you would use.

Task 0.3
Prove that every Boolean function $f : \{0,1\}^n \rightarrow \{0,1\}$ can be represented by a feed-forward McCulloch-Pitts net. What distinguishes a proof from a simple argumentation? Why is your reasoning a proof and not just an argumentation?

We will discuss the solutions of this sheet in the first week of exercises, i.e. on the 22nd of October (Room 104 in OH 14, either from 9:15 to 10:00 or from 12:15 to 13:00).