

Homework 1, AI course

This homework covers chapter 1, 2 and 3 in AIMA.

The homework is due before the lecture on Monday September 11. You report it by emailing your written report (either as a PDF file or as a MS Word file) to the examiner (TR).

Each homework assignment handed in on time gives one bonus-point for the oral exam. Homework handed in too late gives no bonus-points but each student must hand in all homework before the oral exam (or else he/she will not be allowed to take the oral exam).

Read Chapters 1, 2 and 3 (except 3.6) in AIMA.

1. Choose a chat-bot (find one on the net) and test it. Give examples of the conversation, specifically examples where the chat-bot (in your opinion) behaves like a computer rather than like a human.
2. Exercise 1.3 AIMA
3. Exercise 1.7 AIMA
4. Write a short summary (1-2 pages) on AI in computer games
5. Exercise 2.5 and 2.6 in AIMA
6. Exercise 2.7 and 2.8 in AIMA
7. Exercise 3.7 AIMA
8. Write a program that solves the 8-puzzle (motivate your choice of search algorithm).