

CPSC 322 Assignment 0
Due: Monday, September 8, 2008

For this assignment only, no late days may be used
Hand this assignment in electronically; for details see WebCT

The aim of this assignment is to learn about what AI applications exist, and to think about what intelligence could mean. We will discuss this assignment at the beginning of Monday's class. Please be prepared to play your part in the discussion. You are to hand in this assignment before the start of the lecture. You must hand it in online; for details, see WebCT. Submission will not be accepted after 4:15 PM, so please don't leave it to the very last minute! If you complete this assignment, you will obtain the greater of your grade with Assg0 and your grade without; if you do not, you will not be penalized, but you will not have the opportunity to get the higher grade.

Find out about **two** applications of AI (not classes of applications, but specific programs). For each application, write **at most one typed page** that describes it. You should cover the following questions:

1. [2 pts] What does the application actually do? (e.g., control a spacecraft, perform medical diagnoses, provide intelligent help for computer users, shop on eBay)
2. List at least:
 - [1 pt] two goals that the application has
 - [1 pt] two types of prior knowledge that it needs to perform intelligently
 - [1 pt] two types of past experiences that it does (or could) learn from the environment in order to improve its performance over time
 - [1 pt] two types of observations that it needs about the environment
 - [1 pt] two types of actions that it performs
3. [1 pt] What AI technologies does it use (e.g., model-based diagnosis, belief networks, semantic networks, heuristic search, constraint satisfaction)
4. [2 pts] Why is it intelligent? What aspects of it makes it an intelligent system?
5. [2 pts] Is it an experimental system or a fielded system (i.e., used in a real world setting)? If it is a fielded system, in what context is it used and how many users does it have? If it is an experimental system, do the authors mention how much more work would be required to turn it into a fielded application?
6. [2 pts] How has it been evaluated? How well does it perform?
7. [2 pts] Do you find the evaluation convincing? Why or why not?
8. [2 pts] References: where did you get the information about the application? What books, articles, or web pages would be useful references for others wanting to learn more about this application?

You'll receive one bonus mark for each application you describe which no one else found.

Collaboration and Plagiarism:

For this assignment, you may collaborate with other students to ensure that you have different applications. However, you must list all of the people you collaborate with, and you should ensure that none of you submit the same application. You must list all of the references you use. If you use a web page, paper, or book, you must reference it. All of the phrasing must be your own. If you want to copy a phrase or a sentence, you must put it in quotations and give a reference (including page numbers) where we can find it.