



AI Large Practical

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- ▶ The official descriptor is on-line:
`http://www.drps.ed.ac.uk/16-17/dpt/cxinfr09043.htm`
- ▶ There is no exam for this course; assessment is entirely on your work during the practical, the programs you write, and your reports of those programs.
- ▶ The course is compulsory for some degrees.

- ▶ Most practical work so far has asked you to solve closely specified problems, in a short time frame.

AILP asks you to manage your time, and organise how you set about a larger task, where you will play a role in setting the direction of your work, and in reporting on your work.

- ▶ This is a small introduction to research, which will involve:
 - ▶ Understanding the problem
 - ▶ Reading some associated literature
 - ▶ Designing an extended computational system.
 - ▶ Experimenting and evaluating.
 - ▶ Writing a final report on your work,

Assignment	Issue	Due	Weight
A1	28 Sep	Fri 14 Oct, 16:00	0%
A2	5 Oct	Fri 11 Nov, 16:00	50%
A3	9 Nov	Wed 21 Dec, 16:00	50%

The final deadline allows for work to be done after all other coursework deadlines have passed. It should be possible to finish well before the AILP deadline above.

Lectures Wednesday, 9:00 in AT 2.12,
weeks 2,3,8,9 and possibly others

Lab drop-in sessions will be organised from week 3

Drop-in sessions allow you to ask questions about the assignments in general, and about design and programming issues.

You are expected to budget your own time and pace your work to meet the deadlines.

BEWARE:

there will be other coursework deadlines falling towards the end of the semester. Remember that the AILP submissions count for more than coursework associated with courses with exams.

For most people, the period at the end of the semester will be free from other coursework deadlines.

- ▶ Email myself for any issues:
`smaill@inf.ed.ac.uk`

I will circulate where it is of general relevance.

- ▶ Does it make sense to have a student rep for the course?
Volunteers?
- ▶ We will have a course wiki.

Reminder: plagiarism



Claiming someone else's work as your own is a serious offence within a university; this includes failure to acknowledge where your work is based upon someone else's work.

- ▶ It's good to discuss problems and ways to solve them with others.
- ▶ But you **must**:
 - ▶ Write your own code;
 - ▶ Do your own experiments;
 - ▶ Write your own report.

More discussion is at

`http://www.inf.ed.ac.uk/admin/ITO/
DivisionalGuidelinesPlagiarism.html`

- ▶ The area of the practical is in **argumentation systems**:
- ▶ Argumentation involves making sense of arguments both for and against some claim or course of action.
- ▶ Examples:
 - ▶ Choice of treatment for a patient;
 - ▶ Choice of action by a governing body;
 - ▶ Legal arguments for guilt or innocence;
 - ▶ Individual choice of considered action
should I eat the **whole** tub of ice cream.

Exercise 1

- ▶ Write down 3 examples of arguments.
- ▶ Reflect on your examples: do the arguments have internal structure, identifiable components?

Exercise 2 (debating)

- ▶ Work with a partner; one of you will be **proponent**, the other will be **opponent**.
- ▶ The proponent selects one of his/her examples from Exercise 1, and puts the argument forward. The opponent tries to rebut the argument with a counterargument.
- ▶ Now swap roles.

In the AILP, we look at something called the Carneades model of argumentation. This is partly motivated by the goal of representing legal arguments.

- ▶ What is the difference between arguments and **legal** arguments?
- ▶ Try to come up with a few examples of legal arguments.

- ▶ Arguments summarise **evidence** for and against particular **conclusions**, or courses of actions.

Any decision for one side or the other in an argument does **not** say that a **truth** has been discovered, but that one side has **stronger evidence** than the other.

- ▶ Look at background paper by Douglas Walton on the background to Argumentation Theory in AI:

http:

`//www.dougwalton.ca/papers in pdf/09ArgShort.pdf`

- ▶ For the particular model of legal argumentation we start from: Thomas F. Gordon, Henry Prakken, and Douglas Walton (2007) The Carneades model of argument and burden of proof.

`http://www.sciencedirect.com/science/article/pii/S0004370207000677`

Take a look at the first assignment (not for credit).

- ▶ Meet at 09:00, same venue;
- ▶ An early look at the second assignment (for credit)