On Wed, Jul 5, 2017 at 11:36 AM, Alexandra Welsh via RT <rt+ito@inf.ed.ac.uk> wrote:
> Hello Sharon,
>
> Thank you for clarifying the AI+Management was actually AI with Management earlier on the phone - I didn't want to change the wrong DPT.
>
> I have made the requested changes to the following DPTs, with compulsory options for 3rd year students to choose Computer Science Large Practical (INFR09044) OR AI Large Practical (INFR09043) -
>
> Artificial Intelligence (BSc Hons) (UTAINTL)
> Artificial Intelligence and Computer Science (BSc Hons) (UTAICSC)
> Artificial Intelligence and Mathematics (BSc Hons) (UTAIMAT)
> Artificial Intelligence with Management (BEng Hons) (UTAIMNG)
>
> I have also changed the following DPT with compulsory options for 3rd year students to choose between Computer Science Large Practical (INFR09044) OR AI Large Practical (INFR09043) OR Software Engineering Large Practical (INFR09045) -
>
> Artificial Intelligence and Software Engineering (BEng Hons) (UTAISEN)
>
> The change should show up on the system overnight if it hasn't already.
>
> I will let Stephen Gilmore know of the change as he is allocated as the CSLP course lecturer.
>
> Please let me know if there is anything else.
>
> Hope you have a lovely day. :)
>
> Kind Regards,
> Alexandra Welsh
> Informatics Student Services
> University Of Edinburgh
Also, students on AI+SE should be able to do SELP (that is, option of any of the three). For obvious reasons: it's in their degree title.

--AuH2O

On Mon, Jan 16, 2017 at 9:52 AM, Sharon Goldwater <sgwater@inf.ed.ac.uk> wrote:

> I would like to propose a minor change to the DPTs for the following degrees:
> AI
> AI+CS
> AI+SE
> AI+math
> AI w mgmt
>
> In these five degrees (only), AILP is a required third year course. I propose to modify the DPTs so that *either* AILP or CSLP can be taken in third year.
>
> Rationale (detailed below): AILP and CSLP have extremely similar learning outcomes, and in practice CSLP may cover material that is equally or more relevant to many level 10/11 AI courses and honours projects.
>
> Possible side effects for enrollment/resourcing also detailed below.
>
> 1. Though worded differently, AILP and CSLP have extremely similar learning outcomes.
>
> AILP:
>
> -Design and implement a complex system.
> -Consider alternative designs, both for internal properties, and as ways of tackling a given problem.
> -Read technical papers, and explain their relevance to the chosen approach.
> -Design and carry out appropriate experiments, and explain the methodology involved.
> -Write a scholarly report, suitably structured and with supporting evidence.
CSLP:

- Plan to manage complex systems with competing requirements, read technical papers and extract relevant content.
- Consider and compare possible structures for a design.
- Plan to manage their time and resources in completing a large project.
- Implement and debug a computer system of medium to large size.
- Analyse the performance of a system, and write clear and concise documentation.

2. In practice CSLP may cover material that is equally or more relevant to many level 10/11 AI courses and honours projects.

The exact nature of AILP and CSLP can vary from year to year, but this year's courses are given below as examples, with information taken from course web pages/slides (so always possible I missed something):

AILP project goal: implement and test an argumentation system.

Required skills/knowledge mentioned and supported in course materials:
- version control (git)
- reading research papers
- devising arguments, burden of proof
- extending existing code base
- devising a syntax, parsing input
- justify design decisions
- write report

CSLP project goal: implement and test a stochastic simulator for city rubbish collection.

Required skills/knowledge mentioned and supported in course materials:
- version control (git)
- bash scripting
- justify design decisions
- shortest path/graph traversal algorithms
- route planning/scheduling/optimization
- parsing input
- stochastic simulation
- code design, optimization/profiling, unit testing
- analysis: gathering/summarizing statistics, plotting/visualization
- write a report
Students interested in argumentation specifically, or those going on to take courses/projects in some areas of AI, will benefit from this year's AILP. However, I would argue that for many students, including those more interested in statistical approaches to AI, the specific skills and knowledge covered in this year's CSLP are more useful than those in AILP. Planning, stochastic processes, search, and optimization are all AI-related topics. The general skills of code design, profiling, and testing are useful to all students. Evaluation and analysis through gathering statistics, plotting, and visualization are also good general skills, but particularly useful for empirical evaluation of statistical AI systems.

I would therefore argue that we are denying our AI students a useful learning opportunity by not permitting them to choose CSLP.

3. Possible side effects/resourcing

It seems likely that if AILP students are permitted to take CSLP, the enrollment of AILP will drop, and that of CSLP will rise. Current enrollment of the LPs is:

- AILP has 44
- CSLP has 53
- SELP has 69

Of the 44 students taking AILP, 30 of them are on degrees that require it. (We have 31 students on such degrees, I assume the missing person has a concession.) CogSci, CS, and MInf students have the option to take AILP. This year, the following numbers are registered for AILP:

- 9 out of 11 CogSci students
- 4 out of 18 MInf students
- 1 out of 92 CS students

This suggests that who are given the option are likely to opt out of AILP. (CogSci students less so, I suspect because they have fewer Inf2 courses and most don’t take Inf2B.)

This will have ramifications for required support of CSLP.

On the other hand, AILP would no longer be required for any students, which would give us the opportunity to consider whether AILP needs to run in any particular year. (If this is under consideration, we should however make sure that that year’s CSLP really is appropriate, notify the students early, and explain why CSLP is actually a good option for them.)

--AuH2O
On Fri, Jan 13, 2017 at 2:34 PM, Bjoern Franke <bfranke@inf.ed.ac.uk> wrote:

Hi Sharon,

Such a small change can be done without BoS approval, just by Convener's action.

We can do this at any time.

Cheers,
Bjoern

On 13/01/17 12:11, Sharon Goldwater wrote:

Hi Bjoern,

When is the deadline is for dpt changes to affect 2017-18? I had a small change in mind following yesterday's meeting but not sure if it needs to go in next week (already running late for proposal) or if Feb meeting is ok.

(I want to suggest adding CSLP as an option to all AI degrees. I feel there are good academic reasons for this, and as a knock-on it means AILP is not compulsory for anyone. Possibly helpful for resourcing...)

--AuH2O