***The* UNIVERSITY *of* NEWCASTLE**

**Faculty of Engineering and Built Environment**

**School of Electrical Engineering and Computing**

**COMP3330/6380 -- Machine Intelligence**

Callaghan Campus

Semester 1, 2019

**Project part 1a): History and Philosophy (HiPhi) Assignment**

**(10 marks)**

This is a team assignment for teams of about 4 members. It is part of the project assignment. It contributes 10% of the total course mark for Comp3330 and Comp6380 students.

There are three components:

1. **Abstract (1 mark):** Due date for abstracts is **18. March 2019**
2. **Presentation (6 marks):** We will compile and discuss a presentation schedule starting from week 3. We will try to put presentations with similar topics into the same week.
3. **Report (3 marks):** The report should be submitted the day after your presentation via blackboard.

The content of this assignment can cover any interesting topic or project that is useful for us when learning Machine Intelligence. Examples are software systems or libraries for intelligent systems or learning algorithms, reports on industrial or business applications of AI or machine learning, movies about AI, games that use AI techniques, hardware, algorithms, mathematical aspects and computer art using AI or evolutionary computation. You can use the lecture of week one as well as associated recommended reading to find possible topic ideas. Your report and presentation should also demonstrate an ability to project to future developments and discuss ethical implications of your presented topic or example.

**Organisation, Structure and Expectations**

**Abstract**

Please submit (using the separately provided HiPhi assignment marking sheet) the following information to blackboard before your presentation:

* Title of your presentation
* Team members (name and student number)
* Please submit an abstract of about 100 words

The abstract could address, e.g., the following questions: What is your presentation about? How does it relate to or involve Machine Intelligence? Historical key facts: When? Where? By whom? What are applications or special features?

**Presentation**

Each team will give an about 15 min in–class presentation during lecture time on Tuesdays. Please contact the lecturer to book a date for your presentation. You can use the local computer, DVD player, or your own laptop, etc.. Please test software or special equipment in time before your presentation. If your team cannot present at the scheduled time please contact the lecturer asap so that an alternative time can be scheduled. If your presentation would require additional time (e.g. because you want to show some short movie examples) then please contact the lecturer.

Note (alternative option):

If you do not want to present there are two options

1) Find a team where someone else is doing the presentation and you can do research and writing.

2) Inform the lecturer that you will prepare a set of ppt slides for release on blackboard We will then mark these slides instead of your presentation. The mark will depend on (a) Structure and clearness of presentation; (b) Message and what we could learn; (c) Volume of work; (d) Correctness of information; (e) Include all copyright information; (f) Correct list of references. The expected length is about 15 slides.

**Report**

Please submit your report to blackboard. The report can include movies and images as appropriate. Include background information and links to related sites. Please use correct citations and make sure that you respect copyright and plagiarism regulations. (Expected length of the report---rule of thumb: 2 pages per team member.). The report can also be presented as a set of ppt slides.

**Learning Objectives**

This assignment should provide opportunity to develop communication skills. It addresses learning objectives 3 and 4 of the course outline.

1. Students are able to explain past and current developments in machine intelligence.
2. Students demonstrate the ability to project towards future developments of the field including possible ethical implications in areas such as data mining and robotics.

**Teamwork**

This assignment should be conducted in teams of about 1-4 students. Students can team up in the lecture breaks, in the labs or using our discussion board. It is expected that each student can contribute 3-5 mins to the 15 min presentation and about two pages to the report. However, this is flexible and the team can decide to distribute work differently within the team, e.g. using roles such as presenter, writer, and researcher. If teams have similar topics we may merge or group them in our schedule consecutively.

# HiPhi Presentation Marking Sheet, Sem. 1, 2019

Please fill in and use this form for submission of your abstract/proposal.

Then print this page and give a hardcopy to the lecturer before your presentation.

If you have to make any changes then update and resubmit this form.

**Date:**

**Title:**

**List of Group Members** (Name and student number, contribution/role)

2.)

3.)

4.)

**Abstract:**

[Above: To be filled in by the presenting team before presentation.]

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[Below: To be filled in by the lecturer/marker.]

**1. Abstract/proposal mark (1 mark):**

**2. Presentation (6 marks)**:

Main Presenter(s):

Structure and clearness of presentation:

What did we learn?

Volume of work:

Correctness of information:

Quality of presentation slides:

**3. Report/Slide set (3 marks):**