CS 3061 Artificial Intelligence I

Hilary 2015

Mon 14-15 Lloyd 1.20
Tue 12-13 LB04
Wed 10-11 LB04

We will cover selected bits from two textbooks available at the Hamilton Library

*Artificial Intelligence: A Modern Approach*, by Stuart Russell and Peter Norvig

[http://aima.cs.berkeley.edu/](http://aima.cs.berkeley.edu/)

and (building on familiarity with Prolog from CS3011)

*Computational Intelligence*, by David Poole, Alan Mackworth and Randy Goebel


plus other material to be presented at lectures.

The main topics are

- General background on AI/computation: the Symbol-system hypothesis and Turing machines as agents
- Search: blind and informed (heuristic), constraint satisfaction
- Knowledge Representation & Reasoning: soundness, completeness, non-monotonicity, abduction, meta-interpretation

A minimal webpage will be maintained in

[http://www.scss.tcd.ie/Tim.Fernando/3AI/index.htm](http://www.scss.tcd.ie/Tim.Fernando/3AI/index.htm)

containing some course materials. (There is no guarantee that all relevant materials will end up there; come to class!)

There will be two assessed lab exercises, to be assigned about two weeks before they are due. Each will be worth 5% of your final mark, leaving 90% for the exam.

An attendance sheet will go around during each lecture. Please put your initials by your name if you want your presence noted. I will use the attendance record in borderline cases (moving you up, if you attend regularly).

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1The following is based on what I know as of 9 January 2015, and is subject to change.