CSU33061
Artificial Intelligence I

Semester 2 (Jan-Apr 2023)

The following is based on what I know as of 23 January 2023,
and is subject to change.

In-person lectures scheduled for

Mon	9 am	LB01 (Lloyd)
Fri	2 pm	LB01 (Lloyd)

will be recorded live on BB Collaborate Ultra in consideration for the ill and others unable to attend,[1] following slides in

https://www.scss.tcd.ie/Tim.Fernando/AI

where links and announcements can be found (in addition to Blackboard). Be sure to refresh the webpage for updates made as the term progresses.

The main topics are

- Background: AI & computation

- Search: blind & informed (A^*)

- Q-learning & Markov Decision Processes

- Constraint Satisfaction & Knowledge Representation

- Bayesian & Markov networks

Two useful textbooks are

Artificial Intelligence: A Modern Approach,
by Stuart Russell and Peter Norvig (4th edn, 2020)

aima.cs.berkeley.edu

and (building on familiarity with Prolog from CSU34011)

Artificial Intelligence: Foundations of Computational Agents,
by David Poole and Alan Mackworth (2nd edn, 2017)

artint.info/2e/html/ArtInt2e.html

Homework out in Weeks 3 and 8 (due 2 weeks later) will be worth 20% of your final mark, leaving 80% for the 2-hour in-person exam at the end.

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Instructor

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[1]There is *no* guarantee that everything of interest at lecture will make it into the recordings nor that questions asked online will be answered.