Computing Science Course Outlines 2020 Summer

CMPT 310 - D100 Artificial Intelligence Survey

Instructor(s): Toby Donaldson

SFU Burnaby

Calendar Objective/Description:
Artificial Intelligence Survey

Instructor's Objectives:
This course is a broad introduction to the techniques, methodology, and theory of Artificial Intelligence. Depending on time and class interest, the following topics will be discussed.

Prerequisites:
see go.sfu.ca

Topics:
- Meaning, goals, methods and languages of Artificial Intelligence.
- Knowledge representation.
- Inference in first order logic; logic programming.
- Intelligent searching and planning.
- Natural Language Understanding.
- Game-playing.
- Machine learning (e.g. neural networks, decision trees).
- Philosophical foundations, ethical Issues, and future expectations.

Grading:
Grading will be announced the first week of class.
Students must attain an overall passing grade on the weighted average of exams in the course in order to obtain a clear pass (C- or better).

Required Books:

Academic Honesty Statement:
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).