

# **CMSC 671**

## **Principles of Artificial Intelligence**

### **Course Overview**

**Fall 2020**

# Today's Class

- Course overview
- Introduction
  - Brief history of AI
  - What *is* AI? (and why is it so interesting?)
  - What's the state of AI now?

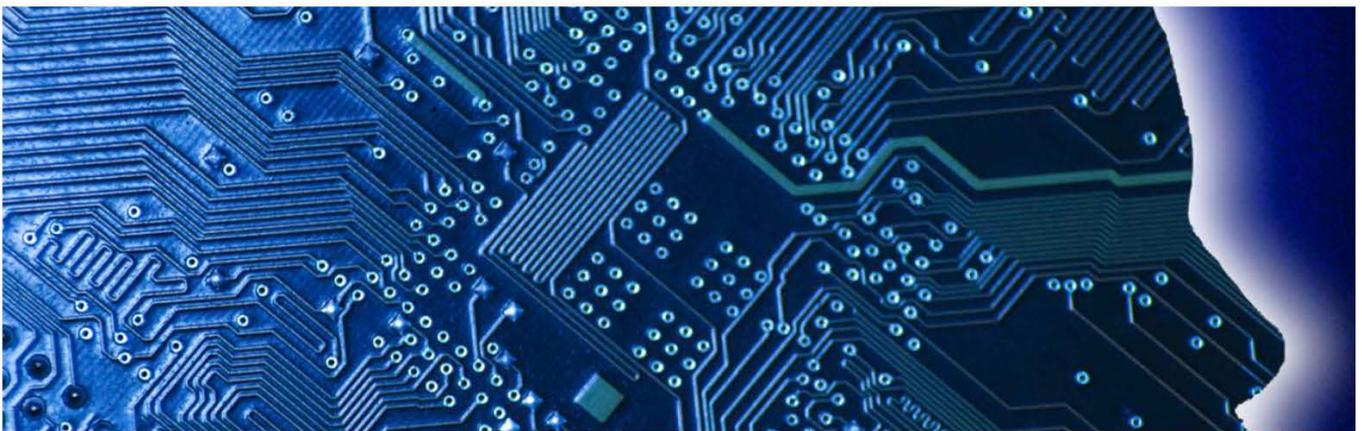
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# UMBC CMSC 671 Fall 2020

## Principles of Artificial Intelligence

• home • about • schedule • hw • exams • notes • code • colab • github • resources • news • piazza • discord • webex •



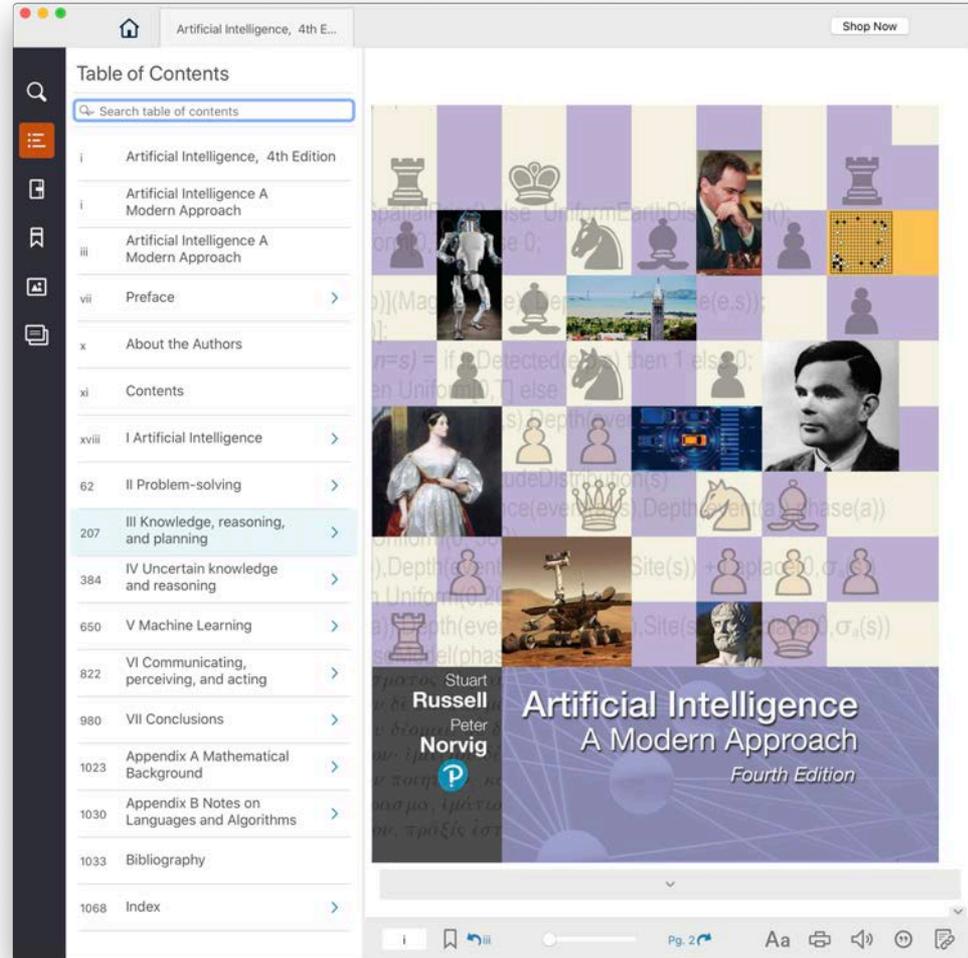
This graduate course provides a general introduction to Artificial Intelligence concepts and techniques. We will cover a good part of the material in our text, [Artificial Intelligence: A Modern Approach](#) (fourth edition) by Stuart Russell and Peter Norvig, including the agent paradigm in AI systems, problem solving, search, game playing, knowledge representation and reasoning, natural

**AI News**  
[Knowledge Graph](#)



# Text, CMI

- 4<sup>th</sup> edition of AIMA (2020) has lots of new material since the 2009 3<sup>rd</sup> edition
- UMBC CMI program charges \$44 for a digital version, \$160 on Amazon for hardcopy
- Access on Blackboard or download to computer/phone
- Opt-out of CMI via form



# Homework and grading policies

- Six to eight short homework assignments (mix of written and programming)
  - One-time extensions of up to a week may be granted ***if requested in advance***
  - Last-minute requests for extensions probably will not be granted
- ***Do the reading before each class!***

# Programming

- Programming assignments in Python
  - We'll use Python 3 in the notes and examples
- We'll use GitHub to share code, Jupyter notebooks and for HW submission
- Some assignments may require other systems
  - E.g., C5 decision tree learning system, Weka Machine learning environments

# Exams and Quizzes

- Periodic short quizzes (10%)
  - On Blackboard every other week or so
- Midterm exam (15%)
  - On Blackboard, October 10
- Final exam (25%)
  - On Blackboard, December 15
  - Comprehensive with an emphasis on last half of material (e.g., 30/70 split)

# Instructor availability

- Professor Finin, [finin@umbc.edu](mailto:finin@umbc.edu)
  - Office hours: Tue/Fri 9-10 on Webex
- Direct general questions to Piazza first
  - We'll try to respond within 24 hours
- TA: Tiantian Xie, [xtiant1@umbc.edu](mailto:xtiant1@umbc.edu)
- Grader: Pratik Pradeep Jogdand, [pratikj1@umbc.edu](mailto:pratikj1@umbc.edu)
- If needed, we may try holding help session on Discord