

2016

Artificial Intelligence and You -- Preliminary Course Outline

Lecture 1

- Overview & definitions
- Key questions about A.I.
- Themes of A.I. in fiction and screenplays
- Applications of AI
- How does AI progress?

Lecture 2

- Movies (with reviews)
- Film & story themes
- Favorite films & the questions they raise
- Popular images of AI

Lecture 3

- Books (with notes)
- Applications of A.I. in language understanding and translation
- People of A.I., part 1

Lecture 4

- A.I. in games and virtual realities
- People of A.I., part 2

Lecture 5

- Book: Machines of Loving Grace by John Markoff
- A.I. vs. I.A.
- Personal recollections of John McCarthy & Doug Engelbart

Lecture 6

- Robots: A.I. with a physical embodiment
- Is consciousness a natural consequence of complex neural networks?
- Can a robot (machine) emulate a human sufficiently well to make itself indistinguishable from a human? (Turing's Test)(“the uncanny valley”)

Lecture 7

- What is the future of humanity?
- Augmentation of human abilities with computational assistance?
- What's the worst that could happen? (The Singularity)
- Other apocalyptic visions

Lecture 8

- A.I. of the future – how fast? How far?
- How can we best interact with machines/robots/computational assistants?