湖州师范学院
Huzhou University

Welcome to Artificial Intelligence Class

Artificial Intelligence

Class：20170021

Teacher: Ke Zhang

Class Hours: 32

Time of the Class: 15：30-17：10, Monday, 1-16 weeks

Final Grade: 30% (Usual Performance)+70% (Course Design)

Main references: Stuart Russell, Peter Norvig. "*Artificial Intelligence: A Modern Approach* (3rd Edition)". Prentice Hall, Dec. 11, 2009.

（Artificial Intelligence: A Modern Approach, http://aima.cs.berkeley.edu/ ）

1st Week learning tasks

1. Overview of Artificial Intelligence

2. Foundations of Artificial Intelligence

3. History of Artificial Intelligence

4. The State of The Art

EXERCISES

1.1 Define in your own words: (a) intelligence, (b) artificial intelligence, (c) agent, (d) rationality, (e) logical reasoning.

1.2 Every year the Loebner Prize is awarded to the program that comes closest to passing a version of the Turing Test. Research and report on the latest winner of the Loebner prize. What techniques does it use? How does it advance the state of the art in AI?

1.3 Are reflex actions (such as flinching from a hot stove) rational? Are they intelligent?

1.4 There are well-known classes of problems that are intractably difficult for computers, and other classes that are provably undecidable. Does this mean that AI is impossible?

Recommended videos

1. This is AI. (From IBM)

   （http://open.163.com/newview/movie/free?pid=MDQLUHVMF&mid=MDQLUQO8Q)

2. AI will set off the second industrial revolution.

   (http://open.163.com/newview/movie/free?pid=MCDE54QDM&mid=MCDE5HTRK)

3. How to build AI to help, not hurt us.

   (http://open.163.com/newview/movie/free?pid=MEOJCKUJD&mid=MEOJD73G0)