

Intelligent Agents

Practical 1

PART 1 – Fundamental AI

You will need to do some research for these. We'll discuss them in the tutorial session and hopefully get some different facts and points of view.

1. What is the Loebner Prize? What does it say about intelligent agents?
2. Is Google Duplex an Intelligent Agent? Does it have “humanlike” intelligence?
3. The below quote is attributed to Mark Twain.
“We should be careful to get out of an experience only the wisdom that is in it and stop there lest we be like the **cat** that sits down on a hot **stove** lid. She will never sit down on a hot **stove** lid again and that is well but also she will never sit down on a cold one anymore.”
Is flinching from a hot surface rational? Is it intelligent? Is the description of the cat's learning experience intelligent?
4. Human reflexes can trigger before a message about the stimulus reaches the brain, which is why reflex actions are so fast. Pick one common reflex action. Is that rational? Is it intelligent?

PART 2 – Case Study

Choose one of the below intelligent agents. Do some research on it. Decide whether the agent acts rationally and/or intelligently (in general or in specific circumstances). Discuss the gap between the agent and “humanlike” intelligence.

1. Tesla Model S.
2. Rio Tinto's Autonomous Haulage System technology.
3. Most modern washing machines.
4. A bot in a game like World of Warcraft.
5. The ghosts in Pac Man.

You should do some research on your chosen agent and make some notes. Come to the tutorial to be part of some discussion. This question will contribute towards your assignment (you'll need to submit something much like this).