Week 1 Quiz: Introduction to AI

Read these two articles which complement Week 1 lectures. They are excellent sources of information about AI, containing interesting and informative reference. Then answer the following questions.

1. **Preparing for the Future of Artificial Intelligence**. Executive Office of the President, National Science and Technology, Council Committee on Technology. October 2016.

2. Computing Machinery and Intelligence. Alan Turing, 1950.

 http://www.turingarchive.org/browse.php/B/9

Week 1 Quiz: Introduction to AI

100/100 points (graded)
1. What definition of Artificial Intelligence is not mentioned in today's lecture:

- ○ The ability to learn and solve problems

- ○ The intelligence exhibited by machines or software

- ● The branch of Computer Science dealing with the creation of autonomous systems better at solving hard problems than humans. ✔

- ○ The science and engineering of making intelligent machine

○ The study of design of intelligent agents which can perceives its environment and take actions maximizing its chances of success.

2. The term Artificial Intelligence was coined by McCarthy at Dartmouth meeting in 1956.

⦿ True ✔

○ False

3. Which of the following is a school of thought for the question "What is AI?"

○ Acting Emotionally

○ Thinking Morally

○ Thinking Creatively

○ Thinking Randomly

⦿ Acting Rationally ✔

○ Acting Randomly

4. Which of the following is not an AI applications mentioned in the lecture:

○ Speech/Handwriting Recognition

○ Machine Translation

⦿ Interstellar Transportation ✔

○ Recommendation Systems

○ Face Detection/Recognition

○ Autonomous Driving

5. There are two kinds of non-adverserial search agents: Informed Search and Random Search. True or False ?

○ True

◉ False ✔

6. A binary classification data problem is different from a clustering data problem in that the dataset under the clustering problem has labels. True or False ?

○ True

◉ False ✔

7. Which of the following discipline is mentioned in the lecture as the foundation of AI

○ Physics

○ Areospace Engineering

○ English literature

○ Machine Learning

○ Neural Networks and Deep Learning

◉ Economics ✔

8. The imitation game is proposed by Alan Turing to test whether a machine can convince a human interogator into believing that it is human.

- ⦿ True ✔
- ○ False

9. Artificial Intelligence has the potential to address societal challenges in many areas. Which of the following areas was not mentioned in "Preparing the Future of Artificial Intelligence?"

- ○ Smart Vehicles
- ○ Precision Medicine
- ○ Smart Buildings
- ○ Smart Government
- ⦿ Smart Communication ✔

10. In "The Imitation Game" paper, Alan Turing admitted the diffculties of answering the question "Can machines think," and he proposed an alternate question. Which question from the following did he suggest?

- ○ Can computers solve computational problems efficiently?
- ○ Can agents behave rationally?
- ○ Is artificial intellgience feasible?
- ○ Is Turing Machine the best AI?
- ⦿ Can a machine behave intelligently so that a human interrogator can not tell whether it is a human or a machine? ✔

Submit   You have used 1 of 2 attempts

✔   Correct (100/100 points)

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