

## Week 1: What is Artificial Intelligence?

### Tutorial 1: What is AI? - Tutorial Content: Week 1

#### 1.1 Group Discussion: Introducing Yourself

Introduce yourself to your tutor and your classmates. Please make sure you mention:

- 1 Your name.
- 2 Which degree program you are enrolled in.
- 3 What aspect of artificial intelligence interests you the most.
- 4 What you hope to gain by joining the course.

#### 1.2 Identifying the Current State of the Art in AI

Choose one of the following tasks (or, a different task of your own choice) and find out the answers to these questions.

- 1 What is the current status of this task?
- 2 Has the task been accomplished?
- 3 If not, what are the limitations or challenges that remain?
- 4 Will it be done in the future, and if so, when?



image source [Cairo Traffic](#)

1. Play a decent game of table tennis (ping pong)
2. Drive in the centre of Cairo, Egypt
3. Drive along a winding mountain road
4. Play games such as Chess, Go, Bridge or Poker
5. Discover & prove new mathematical theorems
6. Compose a piece of music, or paint a painting
7. Write an intentionally funny story
8. Give competent legal advice in a specialised area of law
9. Translate spoken English into Chinese (or Swedish) in real time
10. Perform a complex surgical operation

#### 1.3 Can AI Solve It?

Do a Web search and conclude whether or not AI can presently solve the task. If not, please describe what difficulties or challenges remain, and try to predict when, if ever, these difficulties will be overcome.