Quiz 1

- Due 24 Aug 2023 at 23:59
- Points 15
- Questions 13
- Available 24 Aug 2023 at 15:45 - 24 Aug 2023 at 23:59 8 hours and 14 minutes
- Time limit 15 Minutes
- Allowed attempts 2

Instructions

Dear Students,

Take note of these rules starting the quiz:

1. This is a closed-book quiz. You may not refer to any materials or book while taking the quiz.

2. This quiz has two attempts.

3. You are allowed to attempt and are free to refer back to the reading materials after the first attempt before the second attempt, but do not discuss the quiz questions with anyone until after the deadline for submitting the quiz.

4. An average score will be recorded when you make two attempts.

5. Do NOT forget to sign the honor code.

All the best.

This quiz is no longer available as the course has been concluded.

Attempt history

	Attempt	Time	Score
LATEST	**Attempt 1**	15 minutes	12.33 out of 15

Score for this attempt: 12.33 out of 15
Submitted 24 Aug 2023 at 20:48
This attempt took 15 minutes.

Question 1   Tips
1 / 1 pts

 In which year did the first industrial robot start working in the General Motors factory?

Correct!

- ⦿ 1961
- ○ 1954
- ○ 1940
- ○ 1921

Question 2   Tips
1 / 1 pts

All the following are closely related to robotics and AI except?

○ BigDog

○ IBM's Deep Blue

○ Prosthetic arm

Correct!

◉ Television

⋮

Question 3 [Tips]

1 / 1 pts

When robots are considered to be autonomous, they ...

Correct!

◉ make decisions in response to their environment

○ follow a set of pre-programmed motions

○ are made of automated parts

○ have full knowledge about their environment

⋮

Question 4 [Tips]

2 / 2 pts

What differentiates a robot intelligence behavior from a human intelligence behavior?

Your answer:

robot intelligence is meant to simulate human intelligence to allow robots perform tasks like humans, it relies on code and algorithms to perform tasks however is different from human intelligence as it can does not learn and adapt the same as humans and lacks emotions. Robot intelligence can only do as much as it has been trained to do however humans are able to take in new info and adapt

⋮

Question 5 [Tips]

1 / 1 pts

What is SLAM in mobile robots?

○ Simultaneous Locomotion and Mapping

○ Signal Locomotion and Manipulation

○ Signal Localization and Mapping

Correct!

◉ Simultaneous Localization and Mapping

⋮

Question 6 [Tips]

0 / 1 pts

The ability to manipulate objects with precision is called ....

You Answered

Manipulation

Correct Answers

dEXTERITY

dexterity

Dexterity

DEXTERITY

⸬

Question 7   Tips

0 / 1 pts

Present-day robotic arms are far from reaching the dexterity of a human hands. However, with the *right tool,* they can surpass human capability. What is the robotics term for the tool used on a manipulator?

You Answered

Effector

Correct Answers

end effector

END-EFFECTOR

end-effector

End-effector

END EFFECTOR

⸬

Question 8   Tips

1 / 1 pts

The type of actuation that involves moving around of robots is called ...

Correct!

Locomotion

Correct Answers

LOCOMOTION

Locomotion

locomotion

lOCOMOTION

⸬

Question 9   Tips

1 / 1 pts

Robots have pre-defined information about any environment

◯ True

Correct!

◉ False

⸬

Question 10   Tips

1.33 / 2 pts

Which of the following sensors are proprioceptive? (select all that apply)

Correct!

☑ Accelerometer

☐ Laser

☐ Camera

Correct answer

☐ GPS

Correct!

☑ Encoder

⸬

Question 11   Tips

2 / 2 pts

Which of the following sensors are passive sensors? (select all that apply)

Correct!

☑ Microphone

☐ Ultrasound

Correct!

☑ GPS

☐ Laser

☐ Optical encoder

⁞

Question 12   Tips

1 / 1 pts

To enable my robot drive up a steep incline, I need to make my output gear smaller than my input gear.

◯ True

Correct!

◉ False

⁞

Question 13   Tips

0 / 0 pts

Sign the Honor Code with your initials.

Your answer:

JM

Quiz score: 12.33 out of 15