

ARTIFICIAL INTELLIGENCE. THE FUTURE OF TECHNOLOGY

Will heuristics lead to consciousness?

Computers perform complex calculations that no human could complete. Yet, they remain unable to think for themselves. That's something cognitive scientists want to change. Their research focuses on two types of thinking: CASE BASED and MODEL BASED REASONING. Case based reasoning compares similar problems.

But these different approaches have the same problem. Their algorithms, like most rulers aren't always right.

-That's where heuristics come in. With heuristics, computers are avoiding that problem.

Instead of following rigid guidelines like regular algorithms heuristics search for acceptable solutions. As these modified algorithms improve, machine learning leaps forward. Advanced computers agents and robots now find solutions independently. Pattern recognition has even made computer vision possible. The range of what robots and computers can do grows each day. The invention of a self learning computer may soon be possible.

Activity 1

1-Do you think robots will ever think like humans?

Yes, because technology is becoming more advanced, because they create more and more new ideas that surpass humans.

2-Will artificial intelligence help or hurt business?

I think they can benefit companies since machines can perform different tasks more efficiently, but they also replace humans, and this can lead to unemployment.

Activity 2

Read the magazine article on Artificial Intelligence. Then mark the following statements as true or false.

1_ Case and model based reasoning face different complications.(TRUE)

2_ Heuristics don't have rigid guidelines like regular algorithms.(TRUE)

3_ Computer vision is improving pattern recognition.(TRUE)

Vocabulary

Activity 3

Match the words (1-6) with the definitions (A-F)

1_ Pattern recognition.(C)

2_ Cognitive Scientist.(F)

3_ Consciousness. (D)

4_ Robot. (A)

5_ Heuristic. (B)

6_ Algorithm. (E)

A_ a machine capable of independent action.

B_ a set of rules to solve a problem that seeks any solution.

C_ the process of classifying objects by appearance.

D_ a sense of oneself and one's surroundings.
E_ a rule or set of rules to solve a problem with limited solutions.
F_ a person who studies how the mind works.

Activity 4

Answer about Sophie the robot.

1-Who is Sophie?

Sophie is a humanoid robot, which was created with the aim of adapting to human behavior.

2-Is it possible that Sophie will be a real citizen?

Humans want to create other artificial intelligence, because artificial intelligence is becoming more advanced and can be more efficient and intelligent for humans.

3-Why do you think that humans want to create humans?

Artificial intelligence will surpass human intelligence when it comes to translating languages. It is believed that machines will be able to write text comments better than high school students.

4-Talk about Sophie and its characteristics. Why was it created for?

Sophia is able to hold conversations, demonstrating through her face gestures similar to those of people. Sophia's appearance is humanoid, that is, she has a face, arms, hands and, most attractively, are her gestures, which add a differentiating element to the interaction.