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UNIVERSITY OF ASIA PACIFIC

18101009

HASAN TAHSIN RAFSAN

A SECTION ROLL 9

CSE - 403

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Ans: 1

First of all, I'll prefer Artificial Intelligence can be defined as Acting rationally. It also means the rational agent approach.

Acting rationally means acting so as to achieve one's goals, given one's beliefs. Agent is just something perceives & acts.

In logical approach to A.I. the emphasis is on correct inferences. This is often part of being a rational agent because one way to act rationally is to reason logically & then act on one's conclusions. But it's not all of ~~rationality~~ rationality because agents often find themselves in situations where there's no provably correct thing to do.

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In fact, There are also ways to act rationally that don't seem to involve inference: (reflex actions)

The rational agent design of AI has these advantage.

→ It's more general than the logical approach because correct inference is only a useful mechanism for achiving rationality not a necessary one.

→ It's more amenable to scientific development than approaches based on human behaviour or thought because a standard of rationality can be defined as independent of humans.

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flies; I prefer acting rationally - in AI.

Ans:- 2

According to ~~the~~ foundations of AI. I think Mathematics is important. Because philosophers stated the most of the important ideas of AI, but they want to move a formal science which requires math formalisms in these 3 areas - (i) probability (ii) computation & (iii) logic.

Math has proved that there exists an algorithm to prove any statement in 1st order logic. However if one adds the principle of induction is required to capture the semantics of numbers, then this is no longer increase.

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Similarly incompleteness theorem shows that in any language expressive enough to describe the properties of numbers there statements are undecidable.

Similarly Reduction is a general transformation from one class of problems to another such that the solutions to the 1st class can be found by reducing them to problems in the 2nd class & then solving those.

Again Probability is the mathematical tool principle, where we represent about uncertainty.

Ex. Fuzzy theory Mathematical foundation.

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Ans: 3

Automated cricket Bowling

performance: swing, Play, Spin.

Environment: Player, Room.

Actuators: Break wheel, Stand, Autobeeder

Sensors: Object detection, Motion capturer, weather sensor.