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Q) What does Partial order or planning involve?

In partial order planning , rather than searching over possible situation it involves searching over the space of possible plans. The idea is to construct a plan piece by piece.

Q) What are the two different kinds of steps that we can take in constructing a plan?

a) Add an operator (action)

b) Add an ordering constraint between operators

Q) Which property is considered as not a desirable property of a logical rule-based system?

“Attachment” is considered as not a desirable property of a logical rule based system.

Q) When an algorithm is considered completed?

An algorithm is said completed when it terminates with a solution when one exists.

Q) What is the function of the third component of the planning system?

In a planning system, the function of the third component is to detect when a solution to problem has been found.

Q) For online search in ‘Artificial Intelligence’ which search agent operates by interleaving computation and action?

In online search, it will first take action and then observes the environment

Q) Which search algorithm will use a limited amount of memory in online search?

RBFE and SMA* will solve any kind of problem that A* can't by using a limited amount of memory.

Q) While creating Bayesian Network what is the consequence between a node and its predecessors?

While creating Bayesian Network, the consequence between a node and its predecessors is that a node can be conditionally independent of its predecessors.

Q) What combines inductive methods with the power of first order representations?

Inductive logic programming combines inductive methods with the power of first order representations.

Q) In speech recognition what kind of signal is used?

In speech recognition, Acoustic signal is used to identify a sequence of words

Q) In speech recognition which model gives the probability of each word following each word?

Bigram model gives the probability of each word following each other word in speech recognition.

Q) Which algorithm is used for solving temporal probabilistic reasoning?

To solve temporal probabilistic reasoning, HMM (Hidden Markov Model) is used, independent of transition and sensor model.

Q) In Hidden Markov Model, how does the state of the process is described?

The state of the process in HMM's model is described by a 'Single Discrete Random Variable'.

Q) In HMM, where does the additional variable is added?

While staying within the HMM network, the additional state variables can be added to a temporal model.

Q) In Artificial Intelligence, what do semantic analyses used for?

In Artificial Intelligence, to extract the meaning from the group of sentences semantic analysis is used.

Q) What is meant by compositional semantics?

The process of determining the meaning of $P*Q$ from P, Q and $*$ is known as Compositional Semantics.

Q) How logical inference can be solved in Propositional Logic?

In Propositional Logic, Logical Inference algorithm can be solved by using

a) Logical Equivalence

b) Validity

c) Satisfying ability

Q) Which process makes different logical expression looks identical?

'Unification' process makes different logical expressions identical. Lifted inferences require finding substitute which can make a different expression looks identical. This process is called unification.

Q) Which algorithm in 'Unification and Lifting' takes two sentences and returns a unifier?

In 'Unification and Lifting' the algorithm that takes two sentences and returns a unifier is 'Unify' algorithm.

Q) Which is the most straight forward approach for planning algorithm?

State space search is the most straight forward approach for planning algorithm because it takes account of everything for finding a solution.