CS-607 Quiz-3 BY Attiq Kundi

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(Updated at 11-08-2022)

If the true output of a concept [c(xi)] is 1 or 0 for an instance, then the output by our hypothesis [h(xi)] is 1 or 0 as well, respectively.

True

Decision trees give us disjunctions of conjunctions, that is, they have the form: (A AND B) _____ (C AND D).

OR

Hypothesis space uses the _____ of the attributes.

Conjunctions (AND)

Measure of the effectiveness of an attribute in classifying the training data is called.

Information Gain

Which one is NOT the advantage of Neural Network
Excellent for pattern recognition
Excellent classifiers
Handles noisy data well
None of the given

The first step of FIND-S is to initialize h to the most specific hypothesis in _____: h = < Ø , Ø >
H

A drawback of FIND-S is that, it assumes the consistency within the training set.

True

In all calculations involving Entropy we define _____ to be _____
0 log 0, 0

The soma and the enclosed nucleus in neuron play a significant role in the processing of incoming and outgoing data.
False

A concept is the representation of the _____ with respect to the given attributes.

Problem

Identify the correct statement to list facts numbers 1 through 10
clips> (facts 1 10)

Fuzzy inference systems (FIS) have multidisciplinary nature.
TRUE

Machine learning typically follows _____ phases according to Finlay.
Three

Fuzzy inference systems (FIS) are NOT associated with a number of names.
FALSE

Reasoning in fuzzy logic is just a matter of generalizing the familiar _____ logic.
Boolean

The role of tester is often called the critic
TRUE

Complex problems usually have well-defined steps
FALSE

Mamdani's method was among the first _____ built using fuzzy set theory.
Control Systems

Fuzzy logic is a subset of conventional (Boolean) logic.
FALSE

_____ is the process by which the fuzzy sets that represent the outputs of each rule are combined into a single fuzzy set.
Aggregation

_____ learning works on existing facts and knowledge and deduces new knowledge from the old.
Deductive

The Candidate-Elimination algorithm represents the _____
Version Space

The goal of knowledge analysis is to analyze and structure the knowledge gained during the planning phase.
TRUE

In theoretical computer science there are two main branches of problems:
Select correct option:
Tractable and Intractable

General stages of ESDLC includes.
Select correct option:
Beta system (tested by users)

Inductive learning is based on the knowledge that if something happens a lot it is likely to be generally _____
Select correct option:
True

Usually a _____ graph is chosen to represent a fuzzy set
Select correct option
Triangular

Inductive learning takes examples and generalizes rather than starting with _____ knowledge.
Select correct option:
Existing

The degree of truth that we have been talking about is specifically driven out by a function called the _____ function
Membership

Identify which statement defines classical sets in a best way

A classical set is a container, which wholly includes or wholly excludes any given element.

Machine learning typically follows _____ phases according to Finlay.

Three

If the true output of a concept [c(xi)] is 1 or 0 for an instance, then the output by our hypothesis [h(xi)] is 1 or 0 as well, respectively.
Select correct option:
True

If there are multiple parts to the antecedent, apply fuzzy logic _____ and resolve the antecedent to a single number between 0 and 1.
Select correct option:
Operators

Outputs of learning are determined by the _____

Application

The first step of FIND-S is to initialize h to the most specific hypothesis in _____: h = < Ø , Ø >
H

A drawback of FIND-S is that, it assumes the consistency within the training set.
True

The tractable problems are further divided into structured and _____ problems
Complex

In Fuzzy Inputs we resolve all fuzzy statements in the antecedent to a degree of membership between 0 and _____.
1

In CLIPS, command is used to remove facts.

Retract

Identify that for which purpose statement given below is used (deftamplate Person (slot name (type STRING)) (slot age(type NUMBER))

CLIPS

Identify the sequence wise main phases of Linear model used in developing expert system

1)Planning 2)Knowledge acquisition and analysis 3)Knowledge design 4) Code 5)Knowledge verification 6) System evaluation

Knowledge elicitation method may be classified into:

Direct and indirect methods

Identify the correct definition of linear model given below.

A linear sequence of steps is applied repeatedly in an iterative fashion to develop the expert systems.

Which of the following window is not present in CLIPS tool ?

Rule window

The " concept of partial truth " can best be handled by :

Fuzzy logic

During stage knowledge engineer works with the domain expert to acquire, organize and analyse the domain knowledge.

Knowledge acquisition

_____ encode the knowledge of rules and strategies.

Inference networks

In the context of ES development which of the following will be part of planning phase

Feasibility assessment

If more than one domain experts have to be consulted for knowledge acquisition, than its better to use:

Blackboard system

Identify the sets in which Member function is used.

Fuzzy set

Which of the following is one of the general stages of ESDLC?

Beta System (tested by user)

Identify the correct step used to start design of an expert system.

Feasibility study

Knowledge acquisition techniques may not include:

Surveys

Problem faced during knowledge acquisition may not include

Expert provide exact and accurate knowledge

Identify the sets in which Membership function is used.

Fuzzy set

Clips command for multiplying two numbers 3 and 4 is

CLIPS> (* 3 4)

The goal of is to analyse and structure the knowledge gained during the knowledge acquisition phase.

Knowledge analysis

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