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## Tutotial No: - 01

Tutotical of :- Design of Intelligent agent

Aid: To undetalized the conscept of agent

Absticlion by studing defication of

Religional agent, agent environment, tack

Emitanment Descriptors, environmentypes

Theolf: - An Attitical litelligent (AI) susten
is corposed of an agent and ill environment.
The Agend cut in this environment. An
agent is anything that an Presence My
environment through sensor as and acts upon
that environment through sensor as and acts upon

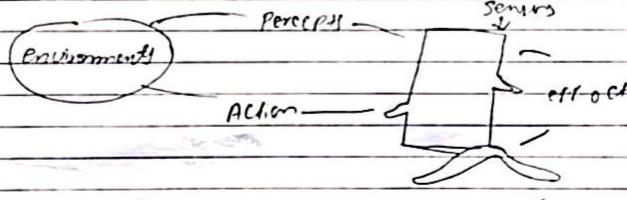


fig 1:- AI agent with environment

eyes coss, Nose, tongue and Itin parallel for the Sentors, & other Organ Such as huney less, mouth for the Lentons, & other Organ Such as huney

viaram)

Surrware agent has encoded bit stringer as its programs and actions Ayent Structure can be viewed as a combination OF agent aretitecture & agent program fig2. Shows the impostant types of agent arthitecture Agents Sensols HOW 10 the WORD ? -> What actions Condition Action i need to do ? Ruic Effectois (a) Simple Reflex Agent ngent Sensors. Environ ment State HOW is the World Likenow? HOW WORD environment What happens if I do nation A what my action do What actions Ineed to do 1 GOODS Effetors (6) model boiled Reflex Angents

Agent Sensors\_ A Stule HOW is the World likenow HOW WORLD envolve What happens if I do Action A What My W What actions I need to do? action clo Guals Effectors. (4) Gouls Based Agent Agent Sengors HOW is the would like Now? 5ture HOW WOOld envolve What happens if I do action A HOW Happy I am by doing Action 17 - What my action do What action I need to do? - wilitz Effectors (d) Utility Based Agent Ayent Architecthure typy

As seen in fig 2a. Simple Reflex agents choose actions only based on the current percept only They are rational only it a correct decision is Made only on basis of current percept . Agrent environment for such agents is fully observable Model Bored Reflex Agents as shown in Fig 26 use a nodel ofthe world to choose their actions An Az agent is referred to as Rational Agen A rational agent always performs righ action. Where the right action means the oction that eaures the agent to be Most successful in given percept Another important piece of information is tast environment properties Descrete or continuouse Ifther an cinited number of distinct clearly defined, states of environment, the environment is discrete 2) Observable or particially observable I Litis possible to determine the complete atente of from inonment of each time point from the precepts is observable 3) Static or Dynamic 12 the environment does not change while an agent is acting . then it is sterric u) Deterministic or Non-deterministic 1/th next State of the environment is completely determine by current steets

6) Single agent or Hultiple agents The environment
May contain Single agent another agent which
May be of the same of different kind as
that of the agent
Accessible or Inaccessible 12the agent's sensony
appointed can have access to the complete
Steere of may be same.
and the same of th
in following scenarious identification
The state of the s
the missing the Kinger Hard to Classifu tack
environment properties
A A A A A A A A A A A A A A A A A A A
1) Autonomous cunar Rover
2) Deep Blue Chess playing computer program
2) Deep Blue Chess playing computer program 3) fliza the natural language provessing computer
program created from 1969 to 1966 at Mrz
c) Automatic Portofollio Management
s) sophia is a social humanoid robot developed
by Hong kong based eonipang Hanson Robotics
6) AlphoGio is a social windroid robot developed by
Horgkong Based company Hanson Robotics
7) Appler virtual assistance giri
8) Fridurance: A companion for Domentia patients
9) Corper: Helping Insomonics Gret through the night
10) Morver: Gluording the Galaxy with conic-Book
11) Automated Cross word solver.
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