K.G.C.E. Karjat - Raigad

Tutorial No: 1.1

Page No.: 1

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agent replaces con cameras

sensory and narious motor and

K.G.C.E. Page No.: Karjat - Raigad Date Software agent has encoded but stronge strings as its programs and actions. Agent structure can be viewed as a combination of of agent architecture. Tig 2 Shows the important types Sensore Howisother world; knows Condition Action what actional need to do? Hectors (a) Simple Reflect Agent Agent State Sensor How world envolves How is the world: Know? what happen if i dontaction A WhitaWhat my actions of what actions I need to do? Cipals effectors (b) model based reflex gont.

Page No.: 4 K.G.C.E. Karjat - Raigad косекосекосекосекосекосекосекосекос Jem 21013 like now? Mould How world endres What my actions Actions I need to do? Effectors goals (c) Goal based Semsore world like now ? How world evolves Action A? by doing actions I need to do? Effectors (d) Utility based Agent 19 2: Agents Aschitecture. Types.

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The state of the s	3CEKGCEKGCEKGCEKGCEKGCEKGCE
It seen in Fig Da, Simple Reflere agents de	ippy ditions
and based one he current operant and u	ou are rational
a covered accision is made right	of longie of.
whent precept. Agent smoot pour less	hagents lis
Many Modernalite Todal	0
Model based Rofler Agent as shown in of	ja lb use a
the state of world to chope their actions To	Was a cintaria and
internal State as Fersylent information. He	in model means
knowledge about how things lapper in wor	ld staf's
depending on our observed dispets of s	wrent state
how its actions in order to cichieve goal	into account
world.	s. 6 affect The
Goal based agents shown in fig Ic, choose	Più atian
actions in order to achieve goals Goals-	louis dains
is more flexible than reflex agent since. Knowled	do durantino
a decisions is explicitly modeled there allo	when the
modifications. Gals is description of deriva	lile Stration
I thally, the Willy Based Agents shown in I	ia Id classe
attions based on Preference for each state.	sale one
anadequate when there are conflicting godle	pal of which
only few can be achieve and have some in	montaint no
I being achieved and you need to weigh like	of handilo
success and against the importance of a go	pal.
	A 0 0
An Al agent is referred to as Kational	Agent: A
rational agent always perform right action,	where the right
rational agent always perform right action, action means the action that courses the	gent to be
	U

in given percept most successful fairfed by Tollamance and to as I VEAS descriptors prioride im simportant insight into agent and task environmen it operates in her important Diere of information is task environment properties While analyzing lask emismment the To consider following properties: Discrete or continuous: If there are a limited number Of district discrete distinct, clearly defined, states of the Invironment the environment continuous Deservable or Partially Observable: determine to complete state of emerionment at point from precepte it is observable; otherwise Synamic only partially deservable Byramic: - I environment does not change while agent is atting, then consument is it is ordine it is dynamic ic or from determinations of next is completely determined ly current the current state and actions of agent; then the environmen is deterministic; otherwise it is non deterministic

Page No.: 7

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	5) Episodic or sequential: In can apisodic environment,
	and then acting. The quality of its ordion depends
	pust on the episode itself. Subsequent episodes do not depend on the actions in the previous. Egisodic
	does not need to think ahead eg. Parking Part
	Picking robots. Complementary to this is sequential ensironment where current action dectates the future.
	action.
	agent on Multiple agents: The environment may contain single agent or other agents which
	These agents may be co-operating or completing
	1) Acceptable or inaccessible: - If agents sensory application
	appratus can have over to complete state of emissionment,
	Innumment granestics like a list of affective to
	then environment is accessible to that agent.
*	Working: Search intermet for Albased applications & in
	application. Further list out PEDS down to 18 agent for that
	environment in each of case. Finally try to classify task environment graperties like en a list of attributa
	from above list of 7 task environment groperties.

1. Deep Blue ches playing computer program Terformance Measure: Win / lose / draw, safety of ches pieces, safety of time for each move. Environment: Ches Isourd, chess Dieces Actualors: Desktop screen, CP Sensors: Cheere Isoard Task environment properties 3 Discrete, July observable, Static Deterministic, Sequential Single agent, Accessible 2. Eliza, the NEP computer grogram executed from 1964 to 1966 at the MIT Artificial Melligence Laboratory by Joseph Weizenbourn. Verformance Measure: Understanding user, maintaining conversation mysamment: Man Trongon Kerboard, user tent implecto Llina leate, outputs windows Achiatori: Texte. Sectore: Claes, Leste inputs Task environment properties: continuous, Fully observable, static Determenastic, seguential, single agent, Assessible To Sophia is a social humanoid report developed by Hong tong based company Heinson Rotal Robotics. Kerformance & leasure: Understanding user, mountaining conversation, facial expressions, response time Environment: Humans, Oyecte thakur

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	CERGCERGCERGCERGCERGCERGCERGCERGCERGCERG
	Actuatori: Armi, Mouth, lege, speaker:
	Sensors: Eyes (cameras), evis, mic, audio sensors
	Task environment groporties: Continuous. Fully Olever able of
	Task environment proporties: Continuous, Fully Olvernable, & Dynamic, Deterministic, Sequential, Single Agent, Accessible
	4. Apple's scritual assistant Siri
	Performance Measure: Understanding ever text and speech,
	producing but results, Summoning (trigger), response speed
	Environment: User, Speich text
	Actuators: Mobile Screen, speaker
	Sensors: Mobile Screen, mic, button
	Task Environment properties: Continuous, Fully Observable,
	Static, Determinatio, Episodic, Singer agent, Accessible
	5 Automated Crossword Solver
	Performance. Measure: Understanding, hints, analyzing hidden and visible letters, time to solve.
	Environment: Kinte, visible letters, Crossword Goard.
	Achiators: Desktop screen, grogram.
	Senson: Crossword Goard.
	Hask Invisionment apperties: Descrete Fully & Observable Static
	Deterministic, Episodic, Single agent, Accessible:
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