Course Title: Introduction to Artificial Intelligence

Home Work-01

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The full form of PEAS:

P: Performance measure

E: Environment

A: Actuators

S: Sensors

Some Agents Task Environments are given bellow:

Task	Performance Measurement	Environment	Actuators	Sensors
Mushrooms Picking robot	Percentage of good Mushrooms in correct bins	Conveyor belt with mushroom, bins	Jointed arm and hand	Camera, Joint angle sensors
Autonomous Mars rover	Collect, analyze and explore samples on Mars	Mars, vehicle	Collection , analysis, and motion devices, radio transmitter	Video camera, audio receivers, communication links
Theorem-proving assistant	Time requirement, degree of correction	The theorem to prove, existing axioms	Accept the right theorem, reject the wrong theorem, infer based on axioms and facts	Input device that reads the theorem to prove
Satellite Image Analysis System	Correct categorization	Downlink from orbiting satellite	Display categorization of scene.	Colour pixel arrays.
Refinery Controller	Maximize purity, Yield, safety	Refinery, operators	Valves, pumps, Heaters, displays	Temperature, pressure, chemical sensors