

PEAS

Exercise 1

Medical diagnosis system

- 1) Performance measure:
 - a) correctness of diagnosis
 - b) safety and privacy of the system
 - c) legal aspects
 - e) treatment effectiveness
- 2) Environment:
 - a) patient
 - b) hospital
 - c) hospital stuff
- 3) Actuators:
 - a) screen display (questions, tests, diagnoses, treatments, referrals)
- 4) Sensors:
 - a) camera
 - c) keyboard, mouse, microphone

Exercise 2

Agent: Part-picking robot

- 1) Performance measure:
 - a) The amount of parts segregated per time
 - b) Minimization of energy consumption
- 2) Environment:
 - a) Bins
 - b) Conveyor belt with parts
- 3) Actuators:
 - a) Arm and hand
- 4) Sensors:
 - a) Camera
 - b) Angle sensors

Exercise 3

Interactive English tutor

- 1) Performance measure:
 - a) Maximization of student's score on test
 - b) Students satisfaction
- 2) Environment:
 - a) Students
 - b) class
- 3) Actuators:
 - a) Screen display
 - b) Speakers
 - c) Motors
- 4) Sensors:
 - a) Camera
 - b) Microphone
 - c) keyboard

Exercise 4

	Chess with clock	Chess without clock	Taxi driving
Fully observable	Yes	Yes	No
Deterministic	Strategic	Strategic	No
Episodic	No	No	No
Static	Semi	Yes	No
Discrete	Yes	Yes	No
single agent	No	No	No