An introduction to Artificial Intelligence CE-40417 Lecture 2: Intelligent Agents Ramin Halavati (halavati@ce.sharif.edu)

Outline

- · Agents and environments...
- Rationality
- Environment types
- Agent types

Agents

- An agent is anything that can be viewed as perceiving its environment through sensors and acting upon that environment through actuators
- Human agent: eyes, ears, and other organs for sensors; hands, legs, mouth, and other body parts for actuators.
- Robotic agent: cameras and infrared range finders for sensors; various motors for actuators.

Rational Agent?

- What action makes the agent more successful.
- How to Evaluate?
 - Internal / External
 - You'll get what you seek
- When to Evaluate?