1 Artificial Intelligence

- An agent is an entity that can perceive and act. This course is about designing rational agents.
- Rational behavior: doing the right thing.
- Environment Types: Fully observable; Deterministic; Episodic; Static, Discrete; Single-agent. The counter part: partially observable; stochastic; sequential; dynamic; continuous; multi-agent.
- An agent is anything that can be viewed as perceiving its environment through sensors and acting upon that environment through actuators.

2 Problem Solving

- A search problem consists of
 - a state space
 - a successor function (namely update function in data mining algorithm series)
 - a start state (initial value), goal test (terminating value) and path cost function (we say weights in Graph Theory)