Advanced Techniques in Artificial Intelligence
Curso 2021-2022

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Grado en Ingeniería en Informática

1. Final words
2. Student feedback survey
3. Final remarks

Goals

- Intelligent Agents
- Multi-agent Systems
- Planning
- To develop multi-agent systems
    - Labs & assignments:
        - JASON (Java version of AgentSpeak)
    - Final Assignment:
        - JGOMAS (Game Oriented Multiagent System based on JADE/JASON)
- Introduction to AI research

Motivation

- (Huhns & Singh 1994) … "creating a system that interconnects separately developed colaborative agents, thus enabling the ensemble to function beyond the capabilities of any of its members".

- value($\sum$ agent$_i$) > max(value(agent$_i$))

- Final remarks
  - Just classical planning … :-P
  - Where is AI?
    - Deep Learning
    - Reinforcement Learning
    - _Machine_ _learning_ …
      - _For NLP, Vision, Robotics, …_
      - From humans teaching computers …
      - To computers teaching themselves!

  - Deloitte's report 2017: "_Machine learning (ML), a core element of artificial intelligence, will progress at a phenomenal pace this year. But this will be from a low base. As impressive as it is today, in 50 years' time the ML abilities of 2018 will be considered baby steps in the history of this technology._"

- ▪ Final remarks

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