Agents in IAM

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What’s an agent?

• A piece of software situated in an environment (i.e. real world, web) that autonomously acts on behalf of its owner:
  • Reactive
  • Proactive
  • Social
What do we do?

- Design agents
  - Strategies
- Design the environments in which they interact
  - Rules of the game
- Attempt to understand system-wide properties of multi-agent systems
Auctions and Markets

Current bid: £210.00
Your maximum bid: £ (Enter £215.00 or more)
Continue > You will confirm in the next step.

eBay automatically bids on your behalf up to your maximum bid.
Learn about bidding.

![Graph showing supply and demand with market equilibrium at $1.50 price and 3 units quantity.](image)

- **Supply**
- **Demand**
- **Price**
- **Market Equilibrium**

Data
VOIP
Video
Autonomous Systems

Unattended Ground Sensors

Mobile Sensors

Aerial Unmanned Vehicles

Autonomous Ground Vehicles
Sensor Networks

http://www.aladdinproject.org/situation/
Smart Grid

http://energy.ecs.soton.ac.uk/energy/display/
Plus lots more ....

• Check out academics websites
  – http://users.ecs.soton.ac.uk/acr/
  – http://users.ecs.soton.ac.uk/nrj/
  – http://users.ecs.soton.ac.uk/eg/

• and project websites
  – www.aladdinproject.org
  – www.ideasproject.info