CS378
Autonomous Multiagent Systems
Spring 2004

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Week 5a: Tuesday, February 17th

Good Afternoon, Colleagues

Are there any questions?

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- A couple more talks:
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  - Rosaline Picard: emotional intelligence
    (Thurs. @ 3:30, ACES aud)

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- Next week's readings posted

Joint Intentions – Setting

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How agents **form and disband** teams

- Agents in dynamic multiagent world
- Neither complete nor correct beliefs
- Changeable goals, fallible actions
- Don't know others' beliefs/goals

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- What's the role of q?

- What's the difference between goal, intention?

2 proposals for teams

Joint commitment not just intention where agent is team

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Why too weak and too strong?

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- Individually wants p
  OR
- Believes p true, impossible, or irrelevant, AND has a goal of team knowing it.

4 cases

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Joint Persistent Goal (JPG): relative to q to achieve p

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- Overhead: automatic goal to communicate status

Establishing JPGs

- Communication (basis for KQML)
- Observation (requires co-presence)

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- Any other way?

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  - "Trees are usually outdoors."
  - "Once people die they stop buying things."
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- Potential applications?
  - Some listed on their web site
  - Question answering, retrieval of captioned information, machine translation, speech recognition, semantic data mining, ...

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- Agree or disagree?