CS378
Autonomous Multiagent Systems
Spring 2004

Prof: Peter Stone
TA: Mazda Ahmadi

Department of Computer Sciences
The University of Texas at Austin

Week 6b: Thursday, February 26th

Good Afternoon, Colleagues

Are there any questions?

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- Coordination graphs

Another WICS Event

According to the Bureau of Labor Statistics, 70% of all available positions are NEVER advertised. That means most people focus 80% to 90% of their time competing for and looking at only 30% of the jobs.

UNCOVERING HIDDEN JOB LEADS Presented by Jacqueline Ford - previously a Recruiter for Motorola & Trilogy

DATE: Tuesday, 3/2 OR Wednesday, 3/3
TIME: 7p - 8:30p
LOCATION: PAI 3.14
ADMISSION: \$5.00

Sponsored by Women in Computer Science

Logistics

- Faculty recruting talk at 4pm today

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- Final project: Beware of proposing learning-related things!

Class discussion

Sarmad Fayyaz on learning **during** a game

Flexible Positions and Roles

- Slides from CMUnited-98

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- Nash equilibrium: no agent could do better given what others are doing.

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- $R_i(A) \mapsto \mathbb{R}$
- Coordination problem: $R_1 = \ldots = R_n = R$
- Nash equilibrium: no agent could do better given what others are doing.
- May be more than one (chicken)

Example from the paper

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- How are the results propagated back?

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- First eliminate rules based on context
- What does it mean for G_3 to collect all relevant rules?
- What does it mean for G_3 to maximize over all actions of a_1 and a_2?
- How are the results propagated back?
- Let's try again with G_2 eliminated first

Application to soccer

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- Make the world discrete by assigning roles, using high-level predicates
- Assume global state information
- Finds pass sequences and starts players moving ahead of time.
- Note the results: with and without coordination.