Autonomous Multiagent Systems

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Week 15, Thursday (12/5)

Any Questions?

- Today, the whole course is fair game

Department of Computer Sciences
The University of Texas at Austin

Today

- Tournament set-up
- Student discussion
- Class recap
- More surveys

The Tournament

1.	**NeuKastle**	Brett Neuman and Joshua Kasper
2.	**The Ants**	Chris Lemprecht
3.	**Harami No1**	Bharat Kejriwal and Ali Niaz
4.	**The Red Devils**	Henrard Christophe
5.	**Shichi Fujukin**	Justin Lallinger
6.	**Galen's Awesome Goalie and 10 other guys**	Menzel
7.	**OD02**	Wade Williams
8.	**Proust**	James Marrs
9.	**The Iron Curtain**	Cyrus Astaneh
10.	**Yellow Polka Dots**	Usman Qadir
11.	**?**	David Villa

The Process

- Vinay and I will start running the tournament in the very near future using your executables

- We'll guard the results with our lives
  - Don't even think of trying to find out. . .

- We'll show you the results on 12/17

- Come prepared to (informally) talk about your team for a few minutes

- We may (or may not) have guests

Suggested Structure

- Two round robins in groups of 5 and 6 (25 games)
- Playoffs
  - Semifinals: 2 vs. 1, 1 vs. 2 $\longrightarrow$ finals, 3rd place
  - 3 vs. 3
  - 4 vs. 4
  - 6 vs. 5 $\longrightarrow$ vs. other 5
- 2 seeded teams?
- Random draw for the groups

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Creatures

- Overview of Creatures.
- Users will not come play Creatures over and over again.

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It is impossible to create a game of "Creatures" to which users will keep returning to play over and over again.

Course recap

- You've read.
- You've reacted and formed opinions.
- You've spoken.
- You've written.
- You've coded for a task with no right answer and no way of knowing that you're done.

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Do you like CS research?

What have we covered?

1. **Introduction**
2. **Autonomous agents:** What is an agent?
3. **Agent architectures:** Subsumption, TCA
4. **Multiagent Systems:** Overview, subsumption
5. **Agent Communication:** KQML, KIF, FIPA ACL
6. **Teamwork:** Joint Intentions, STEAM
7. **RoboCup Case Studies**
8. **Swarms and Ant-based approaches:** "Go to the Ant"
9. **Applications:** Air traffic, elevators, electric elves
10. **Distributed rational decision making:** game theory
11. **More rational decision making:** voting, bargaining...
12. **Auctions:** FCC spectrum auctions, TAC
13. **Agent modeling:** RMM, tracking teams
14. **Multiagent learning:** Co-evolution, layered learning
15. **Entertainment agents**

The original question

- What is an agent?

Course recap

- I’ve been impressed by the levels of discussions we’ve had in class
- I’m happy with the progress in writing and speaking that many of you have made
- I’m proud of all of you for sticking with it through such a demanding course

THANKS!!!

Surveys

- Vinay's survey

- Invitation to do more on-line surveys
  - Still anonymous
  - Fill it out only what you feel like
  - Should the course be run again?
  - How should it change?
  - How could it attract more students?

Next Meeting

- The tournament!
- Tuesday, December 17th
- Here (ENS 145)
- 10am–noon
- Come prepared to talk (informally) about your team