CS378 Autonomous Multiagent Systems Spring 2005

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Department or Computer Sciences The University of Texas at Austin

Week 4a: Tuesday, February 7th

Good Afternoon, Colleagues

Are there any questions?



Good Afternoon, Colleagues

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• Debugging tips





• Programming assignment 4 — any questions?





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- Week 5 assignments are up





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- Office hour: Monday 2-3 and by appointment





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- Discussion scheduling





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- Final exam time: Tuesday 5/16, 10-noon





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- Week 5 assignments are up
- Office hour: Monday 2–3 and by appointment
- Discussion scheduling
- Final exam time: Tuesday 5/16, 10-noon
 - Monday afternoon? (MWF noon-1pm)
 - Tuesday afternoon? (MWF 8-9am)



Mataric: Adaptive Group Behavior

• Built using subsumption architecture



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- More complex behaviors than in Brooks' article
 - Multiagent



- Built using subsumption architecture
- More complex behaviors than in Brooks' article
 - Multiagent
- Hit a complexity limit?
 - (Subsumption or 3T more prevalent?)



• Necessary and sufficient, not "optimal"



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 - Task dependent
 - Combinations: complementary, contradictory



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 - Combinations: complementary, contradictory
- Example: locomotion



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 - Safe-wandering, following, dispersion, aggregation, homing



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 - What 2 multiagent architectures does she compare?



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- Example: locomotion
 - Safe-wandering, following, dispersion, aggregation, homing
 - What 2 multiagent architectures does she compare?
 - Anything special about this domain? Or could it apply just as well to others?



Jimmy Doyle on basis behaviors for other tasks



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- Can human behavior be thought of as arising from a set of basis behaviors?
- What kinds of basis behaviors would they be?



Jimmy Doyle on basis behaviors for other tasks

- Can human behavior be thought of as arising from a set of basis behaviors?
- What kinds of basis behaviors would they be?
- Would they be the same as the ones Mataric listed?
- Are there others?

