

CS378
Autonomous Multiagent Systems
Spring 2004

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Week 3b: Thursday, February 5

Good Afternoon, Colleagues

Are there any questions?

Logistics

- Programming assignment 4
 - Help each other!
 - Start thinking about pairs

Class Discussion

Ben Bradley on an architecture for
humanoid robot soccer players

Reactive Behaviors

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- Examples of reactive soccer-playing behaviors?
- Examples of non-reactive soccer-playing behaviors?

Pengi

NOTE TO SELF - GET THE RULES DOWN: CAN PENGUINS KILL MONSTERS WITH ICE BLOCKS?

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Group 1: Design a Pengi controller using subsumption

Group 2: Design a Pengi controller using TCA

Representation

- Necessary?

“We hypothesize that much of even human level activity is similarly a reflection of the world through very simple mechanisms without detailed representations.”

Merkwelt

- *Merkwelt* ~ “perceptual world”
- Every agent has its own *Merkwelt*.
- Why should robots use a representation based on our *Merkwelt*?
- Do we know our own *Merkwelt*?

Modules

“When researchers working on a particular module get to choose both the inputs and the outputs that specify the module requirements I believe there is little chance the work they do will fit into a complete intelligent system.”

Does this apply to TCA?

Could Simmons have used subsumption?

- Why or why not?

Exercise

- Differences between creatures, TCA