CS 730/730W/830: Intro AI

- Past
- Present
- Future
- Evaluations
- AI at UNH
- EOLQs

2 handouts: my slides, Scott's slides

Past

1. problem-solving (3 weeks): vacuum robot planner
2. logic (3 weeks): theorem prover
3. planning (3 weeks): planner
4. learning (3 weeks): reinforcement learning agent, handwriting recognizer
5. probabilistic reasoning (2 weeks)

Formalisms:

1. combinatorial search
2. propositional logic
3. first-order logic
4. Markov decision processes
5. hidden Markov models
6. Bayesian networks (graphical models)

Not: NLP, vision, robotics, cognitive modeling, philosophy

Present

- Mon May 7: special guest Scott Kiesel on robot planning
- Wed May 9, 9-noon: project presentations
- Thur May 10, 8am: paper drafts (optional for some)
- Fri May 11, 10:30: exam 3 (N133)
- Tues May 15, 3pm: papers (one hardcopy + electronic PDF)

Future

- UNH AI group: meets weekly (see `unh-ai.pbworks.com`)
- Spring 2013: CS 980 Robot Algorithms
- Sylvia Weber-Russell (CS): computational linguistics
- Andrew Kun (ECE): neural nets
- Rich Messner (ECE): image processing
- May-Win Thein (ME): control theory
- Val Schmidt (CCOM): robotics applications
- cognitive psychology, philosophy, mathematics

Evaluations

These are important!

On the back, please address:

1. Things that were good about the class, and things that need work
   - more/less on certain topics?
   - more (accumulative) assignments?
   - lecturing vs problem-solving
2. Things that I did well, things that I should work on
3. Things that Matt did well, things he should work on

Thanks.

AI at UNH

- suboptimal search
  - bounded suboptimality
  - cost-bounded
  - contract
  - goal achievement time
- motion planning
- parallel search
- external-memory search
- hierarchical search
- probabilistic planning
- cognitive modeling

EOLQs

None.

Thanks!