Administrivia

Intelligent Software Agents

CompSci 767

Term 1 2016

Contact Details

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Components of Course

- Lectures

- Textbook: *"Automated Planning: theory and practice"* by Ghallab, Nau, and Traverso. Available online in the library.

- Student Presentations (10% of grade)

- Assignments (40% of grade)

- Exam (50% of grade)

Course Components (more detailed)

- Lectures (9 weeks)
  - Algorithms & Heuristics [AH] (5 weeks)
  - Representation [R] (4 weeks)
  - Lectures on AH & R will alternate every fortnight
- Student Presentations (2 weeks – 10%)
  - Students will select 1-2 papers from a list to present
  - The length of the presentation will be determined by the # of students in class
  - Paper presentation & presentation attendance will both contribute to grade, exact percentage depends on number of students in class
- Last week – free to work on last assignment

Course Components (more detailed)

- 4 Assignments (40%)
  - Mini-Assignment (7%) (due at end of 3rd week)
  - Planning/Rep/Heuristic (11%)(due at end of 6th week)
  - New Representation (11%)(due at end of 9th week)
  - New Heuristic (11%)(due at end of 12th week)
- Exam (50%) Examinable Material:
  - Lectures
  - Textbook (the assigned chapters)
  - Presented papers
- We will be leaving the country in the 11th week for a year.

Topics

- Planning Algorithms
  - FastDownward: Basis of Most State-of-the-Art Classical Planners
  - Modern Heuristics
  - Alternative Planning Paradigms

- Problem/Domain Representation
  - TBA

Do you really want to take this course?

- Assignments will involve writing reports
- You will be downloading, installing, and getting state-of-the-art planners to work on your system
- You will be presenting papers to the class
- This class will be a lot of work!
- But you get to create new representational schemes and new heuristics
- And you should learn a lot!