

Course Administrivia

Introduction to Artificial Intelligence

CS486/686 Spring 2011

Instructor: Chrysanne Di Marco



CS486/686 Spring 2011 Administrivia References

- Course administrivia
- Grading breakdown
- Lecture schedule



Reference: Course administrivia

- Instructor:
 - Chrysanne Di Marco
 - Office: DC1308
 - Phone: 888-4443 or x84443
 - Email: cdimarco@uwaterloo.ca
 - Office hour: In-class or by appointment
- TAs:
 - Arthur Calvalho (a3carval@uwaterloo.ca)
 - Veronika Koltunova (vikoltun@uwaterloo.ca)
 - Vladimir Pisanov (vpisanov@uwaterloo.ca)
- **Artificial Intelligence: A Modern Approach (optional to buy)**
Stuart Russell and Peter Norvig
Prentice Hall, 2009 Third edition
- Course Web site: Using UW-ACE.



Reference: Grading breakdown

- Assignments and Projects (35%) (30% for graduate students)
 - Assignment 1 (project), due Thursday May 26 at start of class
 - Assignment 2 (written), due Thursday June 16 at start of class
 - Assignment 3 (written), due Thursday July 7 at start of class
 - Assignment 4 (project), due Tuesday July 26 at start of class
- Graduate students must do a 5-10 page essay on a topic of their choice. The essay counts for 5% of the final grade.
- Groupworks (20%)
 - Interactive, in-class, approximately one per lecture
 - Test theoretical knowledge, apply algorithms, problem-solving
- Final exam (45%)
- Bonus project (5%)
 - Please speak to the Instructor if you would like to do bonus work.



Reference: Lecture schedule

1. Tuesday May 3: Administrivia, What is AI?
2. Thursday May 5: **Part I: Intro to Problem-Solving**
 - Assignment 1 overview: Puzzle project
3. Tuesday May 10: Representations for search, uninformed search
4. Thursday May 12: Heuristic search
5. Tuesday May 17: Backtracking search and constraint satisfaction problems
6. Thursday May 19: Local search
7. Tuesday May 24: Applications: Heuristic problem-solving
8. Thursday May 26: (continued) **Assignment 1 due**
9. Tuesday May 31: **Part II: Intro to Representation and Reasoning**
 - Propositional and Predicate logic review
10. Thursday June 2: (continued)
11. Tuesday June 7: Ontological engineering (1/2)
12. Thursday June 9: Ontological engineering (2/2)



Reference: Lecture schedule (continued)

13. Tuesday June 14: Belief networks
14. Thursday June 16: (continued)
Assignment 2 due
15. Tuesday June 21: Decision networks
16. Thursday June 23: (continued)
17. Tuesday June 28: Machine learning/Decision trees
 - Thursday June 30: **NO LECTURE DUE TO CANADA DAY HOLIDAY**
18. Tuesday July 5: **Part III: Intro to Communication**
 - Assignment 4: Question Answering project
19. Thursday July 7: Speech understanding (guest lecture)
Assignment 3 due
20. Tuesday July 12: **PROJECT WORK WEEK**
21. Thursday July 14: **(continued)**
22. Tuesday July 19: Practical AI: Machine translation
23. Thursday July 21: Practical AI: Text summarization
24. Tuesday July 26: **CLASS SYMPOSIUM/ Assignment 4 due**