CS561: FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE

Syllabus – Fall 2013

Instructor: Professor Morteza Dehghani, BCI 268, mdehghan@usc.edu, Office hours: 10am-12pm Wednesdays, or by appointment

Teaching Assistant: TBA


Outline: The outline below is tentative and subject to change.
01. August 27: Introduction to course, artificial intelligence, and LISP. Chapter 1.
02. August 29: LISP continued.
04. September 5: Problem solving as search. Chapter 3.
06. September 12: Game playing. Chapter 5.
10. September 26: Midterm exam 1.
13. October 5: Planning. Chapter 11
14. October 10: Knowledge representation. Chapter 12
17. October 22: Causality. Handouts
20. October 31: Midterm exam 2.
25. November 19: Professor Jonas Kaplan (Psychology/BCI): AI and Neuroscience
27. November 26: Dr. Stefan Scherer (ICT): Perception. Chapter 24
29. December 5: Review for final exam.
30. December 17: Final exam at 8:00am
**Assignments:** There will be 10 assignments. Assignments are assigned on Thursdays and are due the following Thursday at 10am. You will be allowed a total of five late days that can be used on the assignments. In exceptional circumstances, arrangements must be made in advance of the due date to obtain an extension. Once you have used up your five late days, one additional day late will result in a 25% reduction in the total score, two additional days late will yield a 50% reduction, and no credit will be given for three or more additional days late. Late days are in units of days, not hours, so using up part of a day uses up the whole day.

**Projects:** There will be four LISP programming projects. Two of the assignments need to be turned in before midterm 1, and two before midterm 2. Unlike assignments, there no late days are allowed for the projects. The same late score reduction policy applies to projects. There may be additional projects assigned for extra credit.

**Grading:** 35% homework, 15% projects, 20% midterm 1, 20% midterm 2, and 10% final.

Exams will be open book and notes, but no electronic devices (laptops, cell phones, PDAs, calculators, etc.) will be allowed. No make up exams will be given.

No collaboration will be allowed on any of the assignments, projects or exams. These must reflect just the work of the individual student, with no outside help (except for questions asked of the instructor or TA). On the programming projects, use of any code not produced by the individual student – whether from a friend, the Internet, or anywhere else – without explicit permission from the instructor or TA is explicitly forbidden. The standard penalty for violating this policy is an F in the course.

**Statement for Students with Disabilities:**
Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to the TA) as early in the semester as possible. DSP is located in STU 301 and is open 8:30 a.m.–5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.

**Statement on Academic Integrity:**
USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one’s own academic work from misuse by others as well as to avoid using another’s work as one’s own. All students are expected to understand and abide by these principles. Scampus, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: http://www.usc.edu/dept/publications/SCAMPUS/gov/. Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: http://www.usc.edu/student-affairs/SJACS/.