

Wright State University

CORE Scholar

Computer Science & Engineering Syllabi

College of Engineering & Computer Science

Fall 2007

CS 409/609: Principles of Artificial Intelligence

Shaojun Wang

Wright State University - Main Campus, shaojun.wang@wright.edu

Follow this and additional works at: https://corescholar.libraries.wright.edu/cecs_syllabi



Part of the [Computer Engineering Commons](#), and the [Computer Sciences Commons](#)

Repository Citation

Wang, S. (2007). CS 409/609: Principles of Artificial Intelligence. .
https://corescholar.libraries.wright.edu/cecs_syllabi/174

This Syllabus is brought to you for free and open access by the College of Engineering & Computer Science at CORE Scholar. It has been accepted for inclusion in Computer Science & Engineering Syllabi by an authorized administrator of CORE Scholar. For more information, please contact library-corescholar@wright.edu.

CS409/609: PRINCIPLES OF ARTIFICIAL INTELLIGENCE FALL 2007

INFORMATION SYLLABUS ASSIGNMENTS

SUMMARY

This course is an introduction to artificial intelligence. We will cover the most fundamental yet important algorithms and methods in this field and illustrate application areas such as natural language processing, speech recognition, computer vision and robotics.

Topics include:

- Problem solving using search
- Game playing and game theory
- Probabilistic reasoning under uncertainty
- Markov decision processes and reinforcement learning
- Machine learning using decision trees, neural nets et al.

LECTURES

Time: Tuesday/Thursday 6:05 pm -7:20 pm; Location: Fawcett Hall 204

INSTRUCTOR

Shaojun Wang
428, Russ Engineering Center Building
shaojun.wang(at)wright.edu
(937) 775-5140
Office hours: Tuesday/Thursday 2:00PM-3:30PM CS204

TEXTBOOK

Russell, S. and Norvig, P.
Artificial Intelligence: A Modern Approach
Second edition
Prentice Hall, 2003

COURSE GRADES AND WORKLOAD

Four Homeworks 60%
Midterm exam (in class) 15%
Final exam (take home) 15%
Attendance 10%

PREREQUISITES

Data Structure
Linear Algebra
Probability and Statistics
Programming language: C++, Java, matlab