Course: Artificial Intelligence

Instructor: W.F. Lu

Course description

This course covers general knowledge representation techniques and problem solving strategies. Topics will include search, intelligent agents, game playing, rulebased systems, logic programming, semantic networks, planning, and uncertain reasoning. The aim of this course is to introduce the current range of AI-informed techniques for solving problems in computer science and biomedical research.

References

Artificial intelligence, 3rd edition Elaine Rich, Kevin Knight McGraw-Hill

Artificial intelligence, A modern approach, 3rd edition Sturat Russell, Peter Norvig Prentice Hall

Course Schedule

Introduction

Problem, problem space, and search Heuristic search Heuristic search Review Review Game playing Game playing Learning Learning Learning Connectionist models Connectionist models Review Final exam **Course evaluation**

Passing score for graduate course is 70. In general, score is allocated between class attendance, homework, mid-term written exam, final written exam and student oral presentation. Course instructor reserves the right to adjust the grading scheme.