

UNIVERSITY OF MINNESOTA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

5511

ARTIFICIAL INTELLIGENCE I

FALL 2018

ASSIGNMENT 1 (100 points)
Assigned: 09/18/2018 Due: 10/2/2018

Please read the papers by M. Wooldridge “Agent-based Software Engineering” in 1997 and by O. Etzioni and D. Weld “Intelligent Agents on the Internet: Fact, Fiction, and Forecast” in 1995. The papers can be found at the class site. Please answer the following questions with no more than 500 words per question (please provide hardcopies):

Problem 1 (25 points)

Please comment on the positive attributes of each paper. In addition, please comment on what you did not like about each paper. Please note the dates when these papers were written.

Problem 2 (25 points)

Do you agree with the “Research Challenges” described in the Etzioni paper? Can you add more especially if we move to 2018? Please explain. What do you think of his forecast about the Internet and the World Wide Web?

Problem 3 (25 points)

Both papers make arguments that agents are more computer science and software engineering than AI. Do you agree? Please explain.

Problem 4 (25 points)

As a programmer/computer scientist/code expert, how would you do specification, implementation, and verification of an agent-based system? Please explain and use your interest areas as the application domain.