

Extra Credit EC4: DT Agent using Bayesian Networks

CS 4300
Fall 2015

Assigned: 20 October 2015

Due: 5 November 2015

For this problem, handin a lab report pdf (include name, date, assignment and class number in pdf) which redoes A4's decision-theoretic agent which uses the enumeration algorithm (see p. 525, Fig. 14.9 in the text) in the Wumpus world to answer queries. Do the same performance study using this algorithm and compare to the MC approach.

You should handin the report pdf as well as the code used in the study. The code should conform to the style requested in the class materials (no matter what language).

In addition, please turn in a hardcopy of the report in class before the start of class on October 30, 2014.

Write a lab report in the format (please do not deviate from this format!) described in the course materials.

Discuss the statistical framework to establish a confidence interval on the means, and the hypothesis test.