CSCI 446 Artificial Intelligence Project 2 Design Report

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1 INTRODUCTION

Logic and the Wumpus World is an artificial intelligence problem first proposed by Michael Genesereth, and described in detail by his student Stuart Russel[1].

PROBLEM STATEMENT 2

3 SOFTWARE DESIGN

The design of our software is centered around the environment engine. This class ervers to link all components of the program, while

Wumpus World Generation 3.1

We will implement a class

- 3.2 ENVIRONMENT ENGINE
- 3.3 Reasoning Agent
- 3.3.1 Inference Engine
- 3.4 KNOWLEDGE BASE
- 3.5 PATHFINDING
- REACTIVE AGENT 3.6

Experiment Design 4

To analyze the performance of our agents, we are asked to vary various parameters of the wumpus World. These parameters include: the size of the board, and the number of wumpi, pits, and barriers.

REFERENCES

[1] Stuart Russel and Peter Norvig. Artificial Intelligence: A Modern Approach. Pearson Education, 3rd edition, 2010.