

Assignment A4: Intelligent Agents

CS 6380
Spring 2020

Assigned: 20 February 2020

Due: 25 February 2020: have design layout

Due: 5 March 2020: have implemented version

For this problem, each student will participate in the development of a BDI architecture for the USS and UAS agents. This will be reported as a team effort in Overleaf, but you must handin the Matlab code developed in the study. The code should conform to the style requested in the class materials.

Develop USS agents that:

- generate flights 10% of the time
- have a pool of UAS agents; if the name of the USS agent is USS_tom_1, then its UAS agents will be named UAS_tom_100, UAS_tom_101, etc.
- assigns the UAS agents to missions in order.

Develop UAS agents that fly the missions.

For each type of agent:

- define an appropriate set of beliefs, desires, and intentions.
- develop a BDI architecture to support the agent action selection. This includes the mechanisms in the BDI schema, as well as the development of a plan library.

Demonstrate their performance in the ABMS system.