Project title: Developing a Tool to Visualize Multi-Agent Patrolling

Group name/number: FALCONS  
Meeting #: 4  
Held on: FEB 15, 2017 at 3:50 P.M.

Location: Wing Tech classroom  
Members of the group: Chaohui Xu, Yifan Gu, Sheng Zhang  
Topic(s) for discussion: rate of progress, integration, next step  
Report writer: Yifan Gu

All members came on time and the meeting started on time.

The meeting is mainly for reporting the rate of progress and discussing the integration and what to do next.

Sheng had already finished the algorithm part, he used Depth-first Search to traverse all open spaces in a region. Yifan asked that if Sheng has considered a\* algorithm which is suggested by Andrew. Sheng indicated that he had read some article about a\* algorithm and found that it may not be suitable to walk through all open spaces. Yifan asked which kind of data to be interacted between the UI part and the algorithm part. Sheng said that the algorithm part receives a Matrix indicating the open spaces and blocks in the whole environment and there is a public method for adding agents. The return value will be a Map, the key is agentId and the value is a list of the trace of this agent.

Sheng had some trouble in debugging on chrome and he will ask Yifan or Chaohui latter. After that, the algorithm part will be ready for integration.

Chaohui had used d3.js to build the graphic view. The graph can already be shown but he still had some problem with showing numbers on the node and binding event listener on the node. After solving these problems, he will be ready for integration.

Yifan will continue working on block view and the next step is to show the running of algorithm. Some problems put forward last time has been solved and he is still working on solving the rest. He will also integrate the block view and graphic view together and deal with the switching and data communication between these views.

Next meeting and its agenda:

The next meeting was planned to be on FEB 21, 2017 at 3:50 PM in Wing Tech classroom. The meeting will focus on updating sprint tasks and implementing the rest part of the system.