Weekly reports are to be emailed to atbecker@uh.edu by 5:00pm on Tuesdays. The purpose of a weekly report is to: (1) give you text and images for your papers, thesis, and dissertation, (2) document progress, (3) identify if you are stuck or need resources.

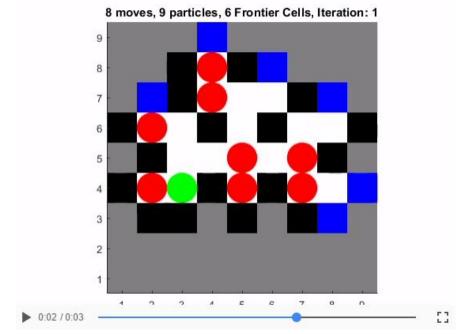
Weekly report

1. My Goals from last week

- Think/Code an algorithm for traversing H-trees with current MATLAB code
- Create new platform on ROS/C++ for adapting current MATLAB code

2. My Accomplishments this week

- a. Project 1: Particle Mapping
 - https://github.com/danielbao/IROS2017mappingParticles
 - 6 Videos were made with different runs of the particles to show jump_elect switching leaders, they are very fast sadly



Screenshot of one of the videos is attached test2.mp4

3. My Goals for next week

- Continue/start on the application for particles based on the micros_swarm_framework ROS package
- Continue looking into H-tree solutions
 - a. Meeting with Dr. Becker on Sometime before the weekend begins

4. What I need Dr. Becker to do:

- a. Meet with me
- b. Look at the other objectives on our summer to-do list; pasted on the next page
- c. Discuss the hardware implementation mentioned in a previous e-mail

BDZ 1. Magnetic Demonstration a. Large paramagnetic particle b. Dallas trip to lab where they make the particles 2. New platform a. Dynamics b. Irregular obstacles c. Polyhedra d. Particle-particle interactions 3. Beyond greedy (look ahead) a. 2 steps, can we disperse b. Dispersion from external source 4. Box2D model on existing capillary model a. Gazebo 5. Occupancy Grid Meeting 5/18/17 New/better algo in heuristics with h tree Solve H tree!