

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

- Revise MATLAB ROS
- Wait for particles to arrive

2. My Accomplishments this week

- a. MATLABROS-located @ <https://github.com/danielbao/Miscellaneous/tree/master/MATLABROS>
 - i. The robots can now map!
 - ii. The robots take keyboard input
 - iii. There is noticeable delay when the number of robots is above 20. Optimization required in the profiling report; uistack and plotRobot are taking the most time
- b. Houston Robotics and AI Day-<https://1drv.ms/p/s!ApQZIVdwmpleo3vj3g-TgKOV85-0>
 - i. Presented and learned about new things in Robotics
 - ii. Hopefully with Arun's direction we can try to do some RL in MATLAB and our frontiers
 - iii. Videos of mapping in action can be found there
- c. IROS2017 Abstract-<https://github.com/danielbao/Miscellaneous/tree/master/ieeeconf>
 - i. Submitted and accepted!

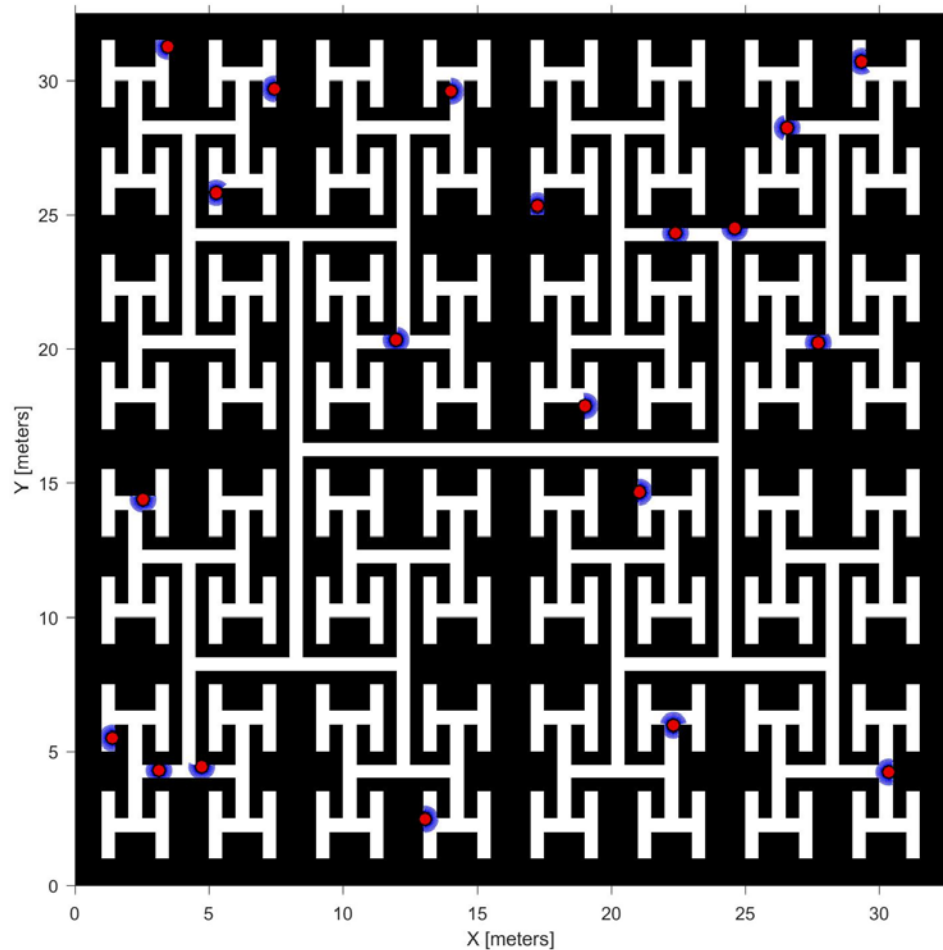


Figure 1: HTree with 20 particles in there.

3. My Goals for next week

- Implement some algorithms into the MATLAB ROS stuff; optimize its plotting
 - Maybe use pose publisher instead of range publishers to get the mapping in for optimization
- Await the new particles and try them out onto the current Helmholtz coil setup
- Pay IROS Conference Fee

- a. Meeting with Dr. Becker on Wednesday

4. What I need Dr. Becker to do:

- a. Meet with me on Wednesday
- b. Wish the best for Arun's health