Patrol Robot Research

Project Structure

In order to get the patrol simulation going, you need to type:

`roslaunch turtlebot_sim multi_patrol.launch`

What this does is launch 8 `proj3_randGoal_patrol.launch` robots (disused below), Turtlebot_multi.rviz, the topology_patrol_generator from the go2goal package, the position rebroadcaster (so the turtlebots know the location of each other), as well as a network emulator node (figure out what this does).

`proj3_randGoal_patrol`

This file contains the launching information to bring up `proj3_patrol.launch` (discussed below). It also loads up the random goal generator.

proj3_patrol

This file is (finally) the one that brings up the turtlebot. This is what loads Rviz, creates the vehicle, and the go to goal node.

Files to edit

Go to Goal Control

- `controllers/patrol_g2g/`
- `go2goal/topology_graph/`
- `go2goal/rand_goal_generator`
- `network_topology_emulator/delta_disk_emulator`
- `turtlebot_sim/simple_map_tf`