Shiva Shahrokhi

Weekly report

1 My *Objectives* this week: Optimal Solution for the algorithm for two robots positioning using friction

- make sure three move works for all cases
- make the rotations work correctly
- complete the algorithm so that it also considers the not achievable sets.

2 My *Accomplishments* this week

- All the rotations and three moves work.
- Not achievable part also works.
- The paper is now drafted and all the covariance stuff is out. (Github is updated)
- I made these two images:

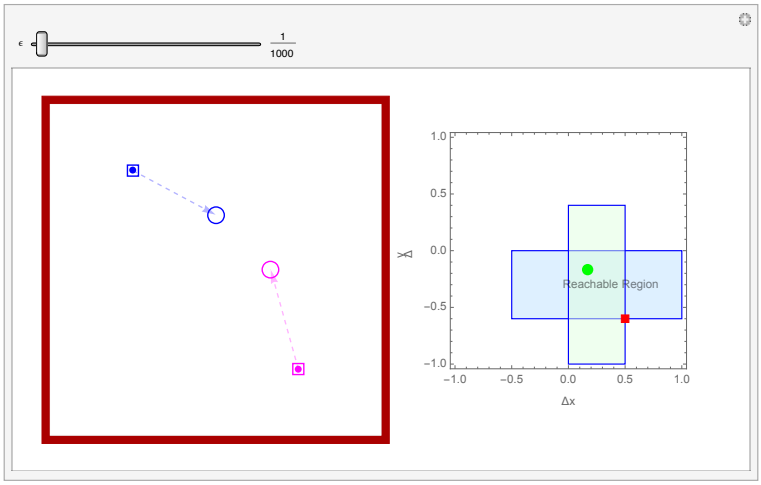

Figure 1: The two rectangles shows the reachable sets of the robots.

3 My *Plan* for next week

- Complete debugging the optimal function A star algorithm.
- Rewrite the whole paper with the new algorithm.

3.1 Meeting with Dr. Becker

- Nothing to mention. I will give my progress report in my next meeting.

2017-02-08

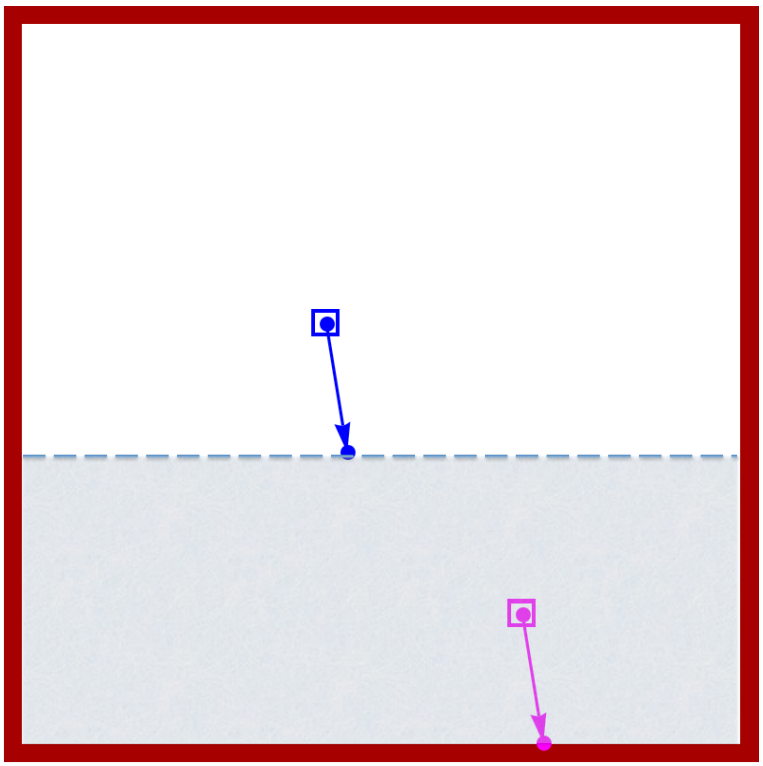

Figure 2: The area where the not touching robot can get in one move to adjust Δgx and Δgy.