

Wifi Localization Performance Review

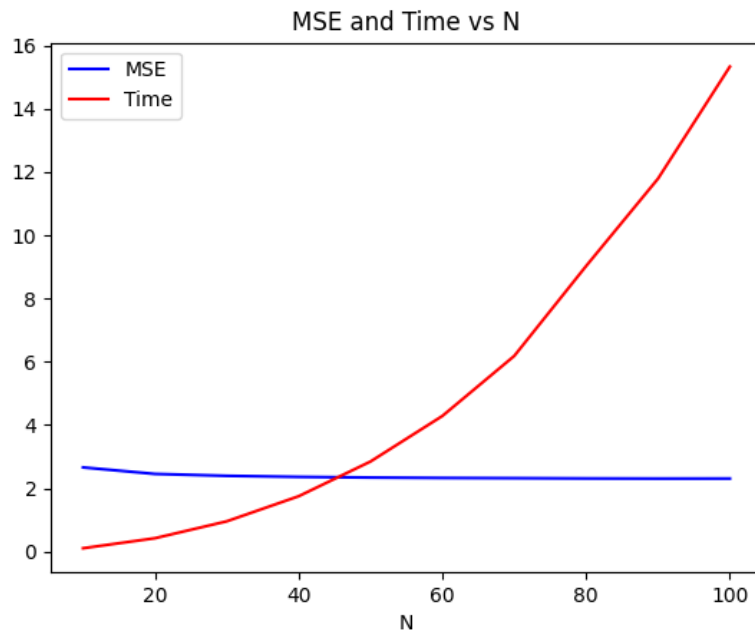
Initial Attempt

Assumptions

- Assume that the relation is $Aw = x$
- Assume that the room is 10m x 10m

Results

The following graph shows the relation between the number of samples and MSE as well as the time needed to find the optimal solution, MSE appears to decrease when increasing the number of samples but it stays around 2.5 m, so the gain from increasing the number of samples is very small



Add Affine Term

Assumptions

- Assume that the relation is $Aw + B = x$
- Assume that the room is 10m x 10m

Results

The following graph is the same as the previous one but here we neglect time because it is very similar, but MSE is reduces to about 0.5m, and standard deviation of about 0.25m.

