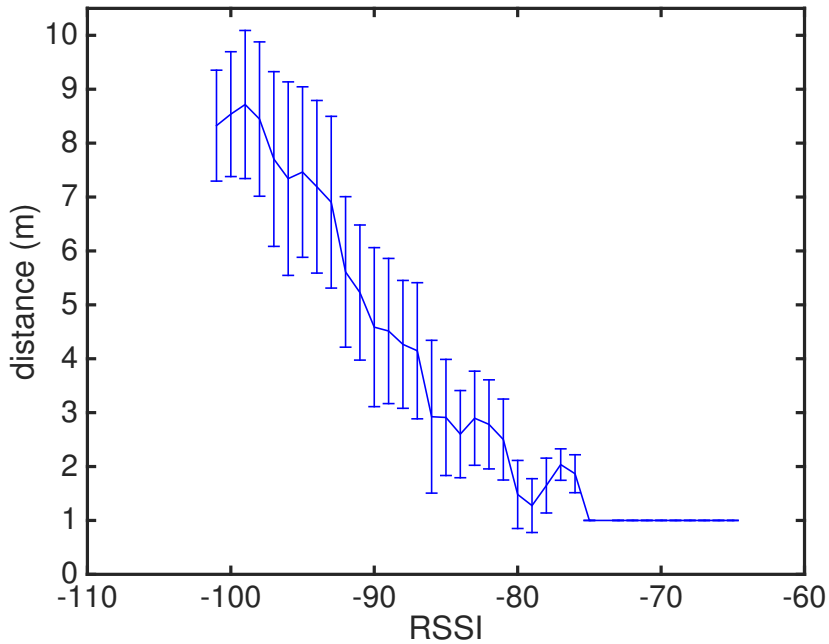
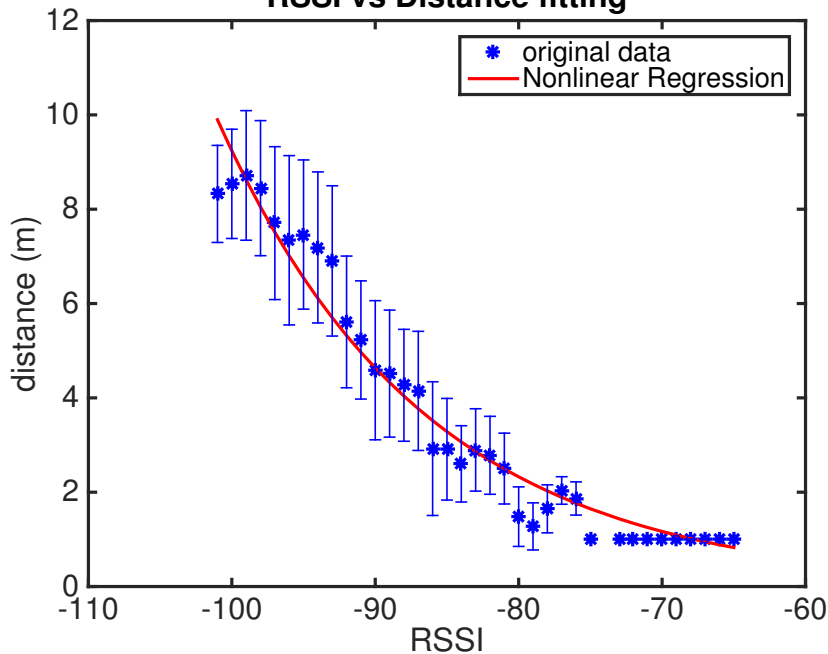


Three mapping methods

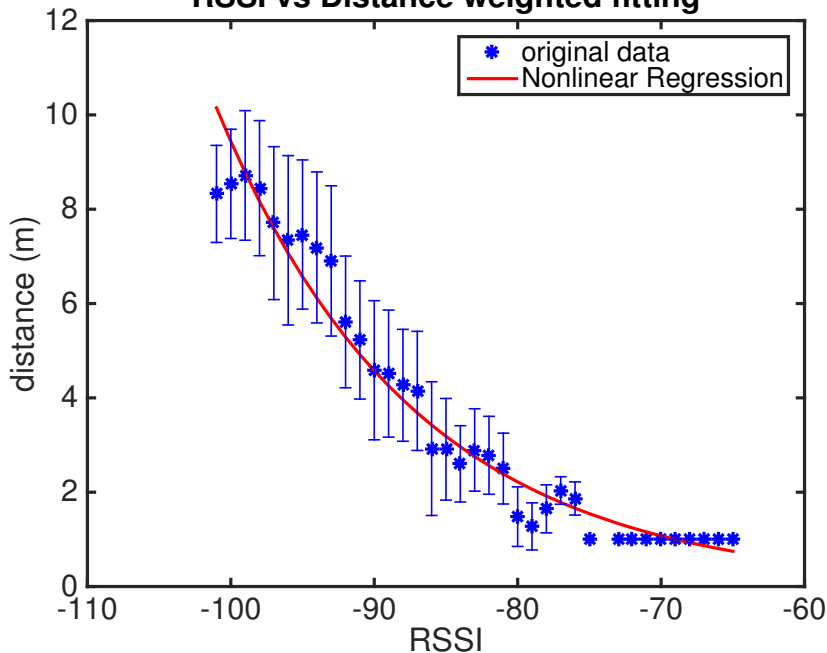
- ▶ rssi distance direct mapping
- ▶ rssi distance fitting
- ▶ rssi distance weighted fitting



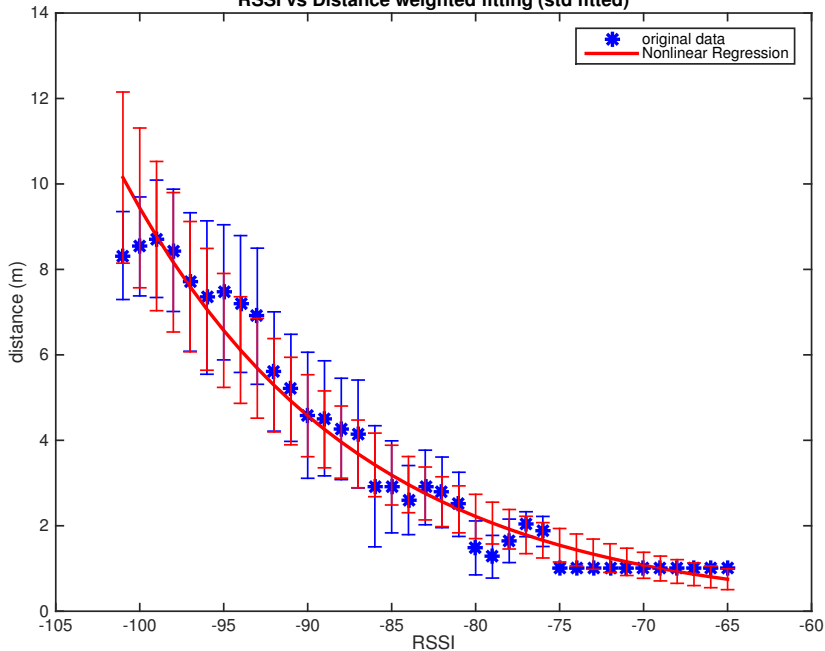
RSSI vs Distance fitting



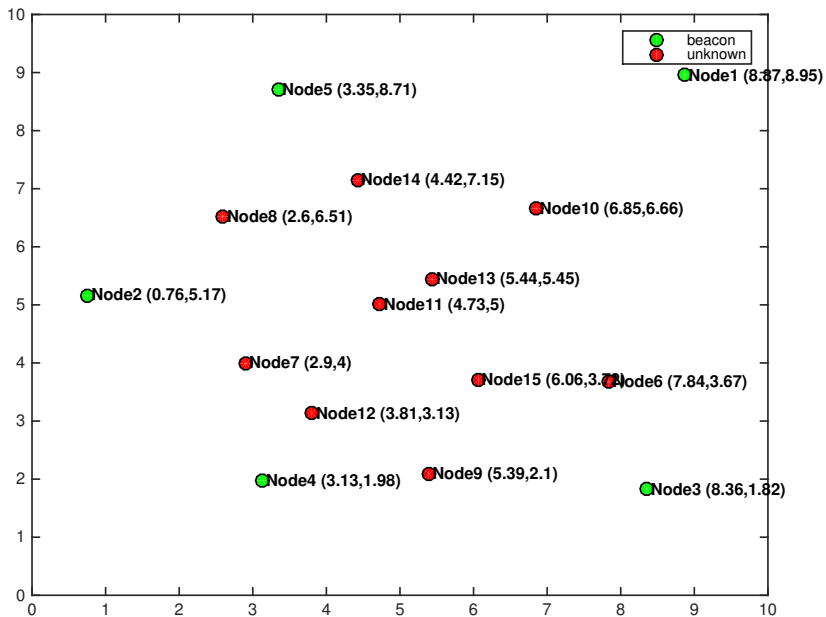
RSSI vs Distance weighted fitting



RSSI vs Distance weighted fitting (std fitted)



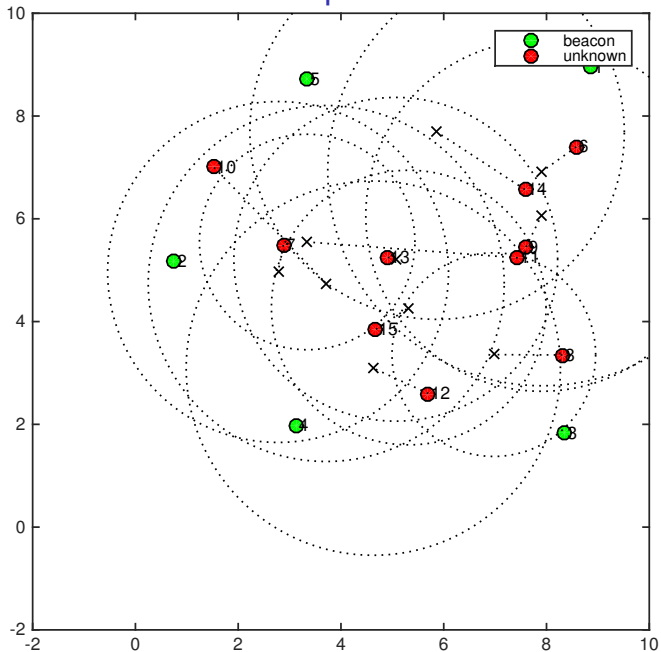




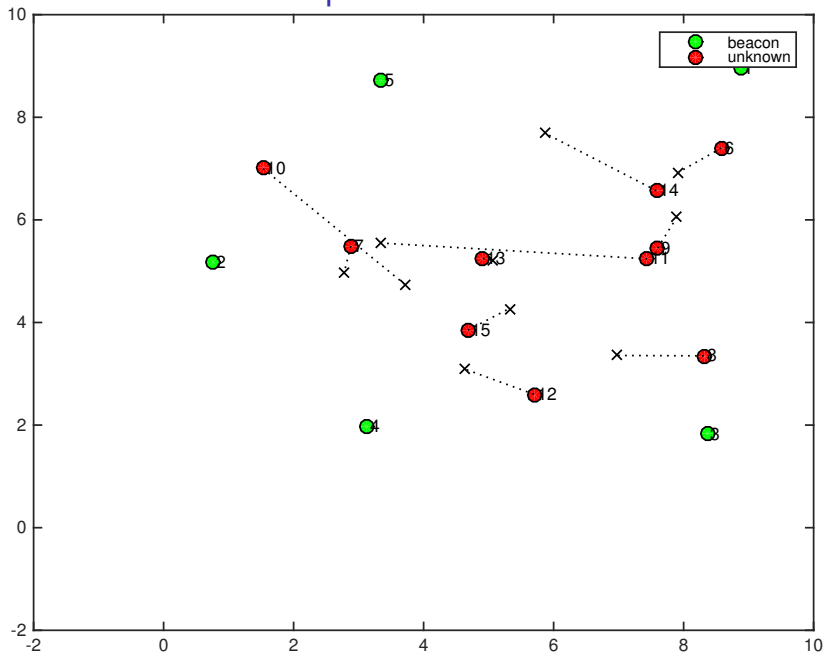
localization errors for kickloc

	RSSI to Distance mapping model		
Topology	direct	fitting	weighted fitting
1	2.7585	2.3372	2.3672
2	2.1123	2.1512	2.1573
3	2.2952	2.2325	2.2487
4	1.5604	1.4542	1.4762
5	1.9285	1.8977	1.9164
average	2.1310	2.0146	2.0332

localization result for topo4 method3



localization result for topo4 method3



average localization errors for different algorithms

Algorithm	RSSI to Distance mapping model		
	direct	fitting	weighted fitting
KickLoc	2.1310	2.0146	2.0332
KickLoc Kalman	1.7901	1.6591	1.6491
KK2	2.0013	1.8996	1.9066
DV-distance	2.7187	2.5311	2.5992
Min-Max	2.1845	2.0676	2.0704
N-hop Lateration	3.0825	2.8399	2.8816
IWLSE	1.8280	1.6993	1.7238