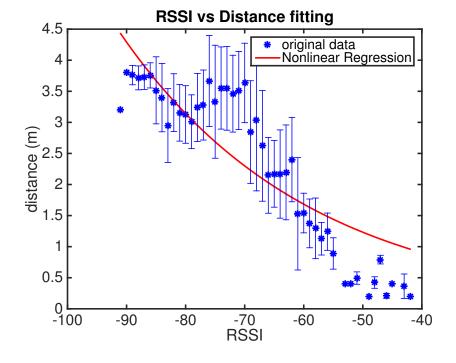
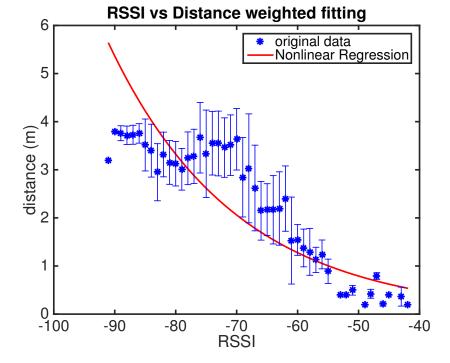
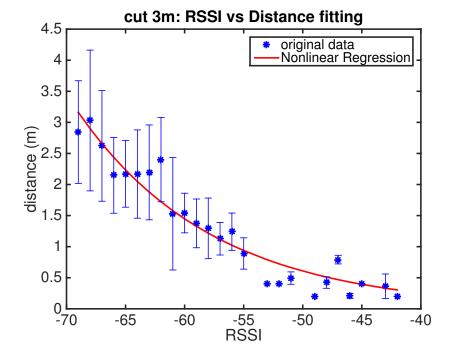


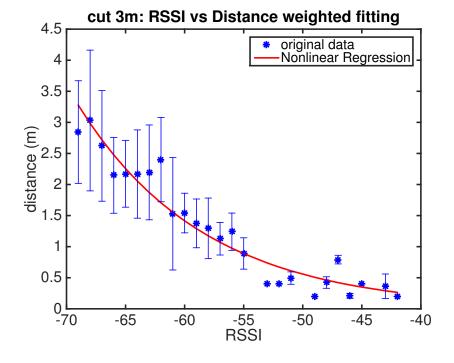
After extend the distance to 4.4m

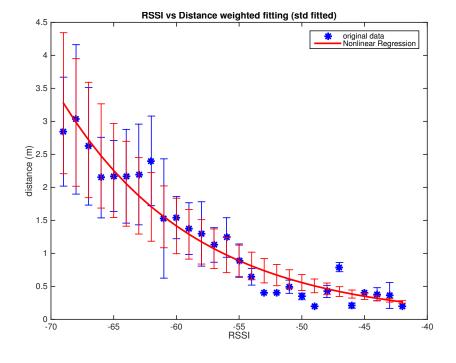




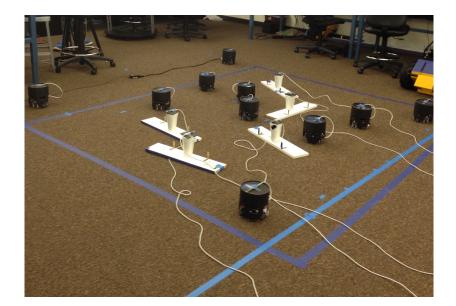
After cutting the mean distance larger than 3m

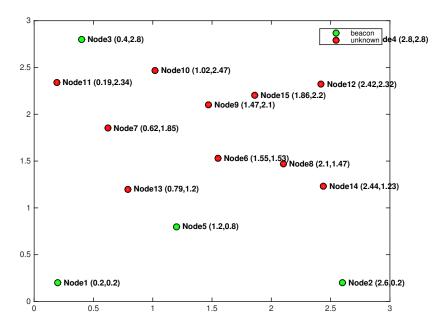






- rssi distance direct mapping
- rssi distance fitting
- ▶ rssi distance weighted fitting
- ▶ cut 3m direct mapping
- ► cut 3m fitting
- ► cut 3m weighted fitting





localization errors for kickloc (cut 3m treat outlier as boundary value)

	RSSI to Distance mapping model								
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting			
1	1.2288	0.5622	0.4823	1.1478	1.1623	1.2600			
2	1.2942	1.4003	1.1707	1.3678	1.3309	1.2785			
3	1.4390	1.1357	0.9791	1.2043	1.2858	1.3329			
4	1.6591	1.3580	1.0879	1.5041	1.4235	1.5219			
5	1.4182	1.1367	1.1893	1.2198	1.5674	1.9128			
average	1.4079	1.1186	0.9819	1.2887	1.3540	1.4612			

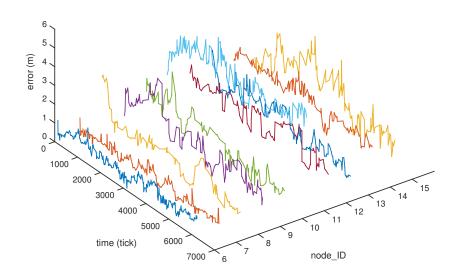
localization errors for kickloc (cut 3m treat discard outlier)

	RSSI to Distance mapping model							
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting		
1	1.2288	0.5622	0.4823	1.1113	1.0564	1.0894		
2	1.2942	1.4003	1.1707	0.9697	0.9849	1.0186		
3	1.4390	1.1357	0.9791	1.1492	0.9733	1.1656		
4	1.6591	1.3580	1.0879	1.4220	1.9286	1.4352		
5	1.4182	1.1367	1.1893	1.2885	1.1299	1.6771		
average	1.4079	1.1186	0.9819	1.1881	1.2146	1.2772		

localization errors for kickloc (cut 3m treat discard outlier, distance std fitted)

	RSSI to Distance mapping model								
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting			
1	1.3081	0.6765	0.5074	1.0748	1.0409	1.0713			
2	1.3366	1.4216	1.2271	0.9021	0.8996	0.9069			
3	1.3971	1.0839	0.9344	1.0996	0.9755	0.9869			
4	1.7022	1.1045	1.1086	1.4217	1.2172	1.2443			
5	1.6719	1.1286	1.0244	1.2712	1.1804	1.1905			
average	1.4832	1.0830	0.9604	1.1539	1.0627	1.0800			

time evolving result for topo1 method1



localization errors for kickloc when only leveraging beacon information

	RSSI to Distance mapping model								
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting			
1	1.5973	0.7827	0.7846	1.3661	1.4071	1.4873			
2	1.1622	0.7455	0.8318	1.0589	1.2185	1.2768			
3	1.3424	0.8064	0.8584	0.9084	1.2069	1.2656			
4	1.7863	1.2275	1.0972	1.4245	1.6041	1.6898			
5	1.6743	0.8378	0.8051	1.2402	1.4551	1.6199			
average	1.2190	0.8800	0.8754	1.1996	1.3783	1.4679			

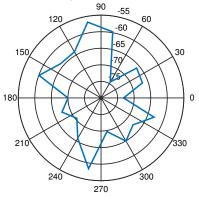
average localization errors for different algorithms

	RSSI to Distance mapping model							
Algorithm	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting		
KickLoc	1.4079	1.1186	0.9819	1.2887	1.3540	1.4612		
DV-distance	1.1383	0.7624	0.8661	0.8438	1.0111	1.0975		
Min-Max	0.6720	0.6679	0.6615	0.6543	0.6817	0.6975		
N-hop Lateration	1.2285	0.9009	1.2003	1.0120	1.1691	1.2712		

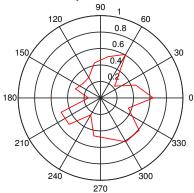
mean



Polar plot of mean rssi



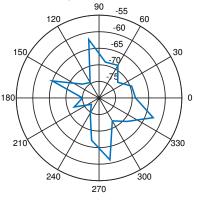
Polar plot of rssi std







Polar plot of mean rssi



Polar plot of rssi std

