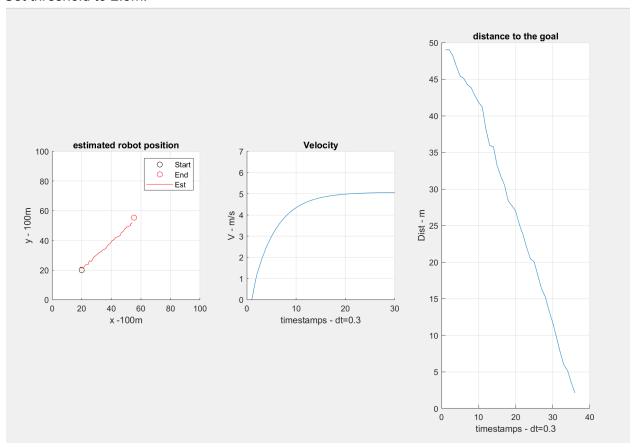
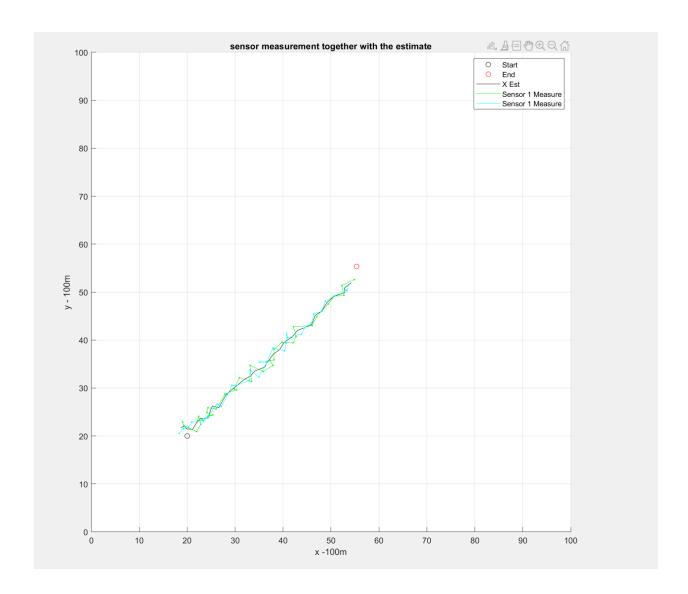
HW3 Zice Wei Part 1: Kalman Filter

Set threshold to 2.5m.

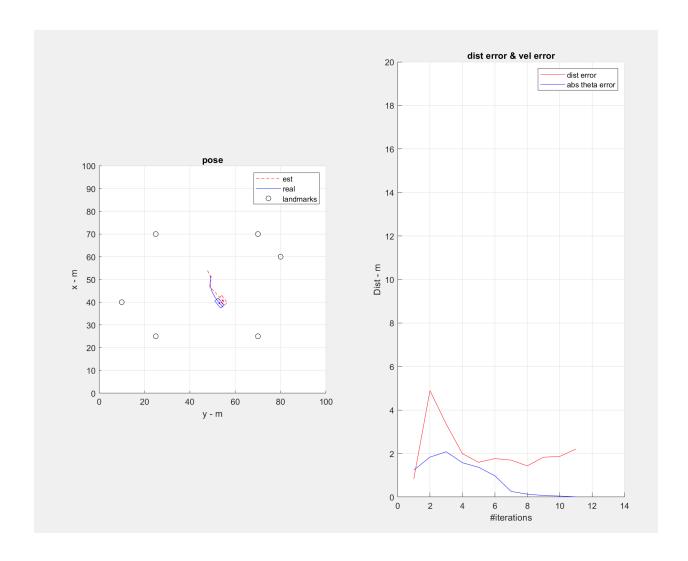


Each sensor measurement together with the estimate from the filter. Estimate is better than the measurements



Part 2: Particle Filter

10 Poses of the robot and the error (distance and theta) between the actual pose and each estimate.



Command Window			
#inter1			
dist error 4.8941			
abs theta error 1.8359			
pose (x,y,theta) 47.6175	54.2704	2.71397	
#inter2			
dist error 3.3531			
abs theta error 2.0794			
pose (x,y,theta) 49.0708	51.3075	2.62749	
#inter3			
dist error 1.9952			
abs theta error 1.5782			
pose (x,y,theta) 49.2872	49.6926	3.02674	
#inter4			
dist error 1.5948			
abs theta error 1.3669			
pose (x,y,theta) 48.7121	48.4117	3.41323	
#inter5			
dist error 1.7694			
abs theta error 0.9779			
pose (x,y,theta) 48.8362	46.4995	4.04356	
#inter6			
dist error 1.6968			
abs theta error 0.2603			
pose (x,y,theta) 51.1325	44.6221	4.9055	
#inter7			
dist error 1.4343			
abs theta error 0.13234			
pose (x,y,theta) 51.8531	43.472	5.09863	
#inter8			
dist error 1.8313			
abs theta error 0.071668			
pose (x,y,theta) 53.2091	42.0846	5.25953	
#inter9			
dist error 1.8655			
abs theta error 0.044139			
pose (x,y,theta) 54.5209	40.749	5.35982	
#inter10			
dist error 2.2069			
abs theta error 0.0063862			
pose (x,y,theta) 55.6939	39.7285	5.44379	
<i>fx</i> ; >>			