

Return to "Computer Vision Nanodegree" in the classroom

Landmark Detection & Tracking (SLAM)

	CODE REVIEW	
	HISTORY	
M	eets Specifications	
Con	gratulations on completing the project!	
You	r SLAM implementation performs well. In your sense function, in the file robot_class.py on line 96, you have	
i.	f (dx**2 + dy**2 <= self.measurement_range**2):	
You	can also use	
i.	<pre>f (abs(dx) <= self.measurement_range and abs(dy) <= self.measurement_range):</pre>	
For	if you would like to further explore SLAM, take a look at this as well as this, and this.	
All t	he best in future projects!	
`ro	obot_class.py`: Implementation of `sense`	

robot's position and any landmarks it sees. One item in the returned list has the format: [landmark_index, dx, dy]. Excellent! You have implemented sense function.

Notebook 3: Implementation of `initialize constraints`

Initialize the array omega and vector xi such that any unknown values are 0 the size of these should vary with the given world_size , num_landmarks , and time step, N , parameters. Awesome! You have initialized the array omega and vector xi.

Notebook 3: Implementation of `slam`

The values in the constraint matrices should be affected by sensor measurements and these updates should account for uncertainty in sensing.

Well done! The values in the constraint matrices are affected by sensor measurements.

The values in the constraint matrices should be affected by motion (dx, dy) and these updates should account for uncertainty in motion.

Great! The values in the constraint matrices are affected by motion (dx, dy).

The values in mu will be the x, y positions of the robot over time and the estimated locations of landmarks in the world. mu is calculated with the constraint matrices omega^(-1)*xi.

Good job! mu is calculated with the constraint matrices omega^(-1)*xi.

Compare the slam -estimated and true final pose of the robot; answer why these values might be different.

Well done! Your estimated values are close to the true values.

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there are two provided test_data cases, test your implementation or slain on them and see it the result matches. :tada! Excellent! The values in the test case are close to the values estimated by your implementation. **₩** DOWNLOAD PROJECT

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