

Return to "Computer Vision Nanodegree" in the classroom

Landmark Detection & Tracking (SLAM)

	REVIEW
	CODE REVIEW
	HISTORY
Mee	ts Specifications
Good v	vork !!
For fur	ther reading:
SLAM 7	utorial@ICRA 2016
	vww.dis.uniroma1.it/~labrococo/tutorial_icra_2016/
	aneous Localization and Mapping(SLAM) examples
SLAM-(/pythonrobotics.readthedocs.io/en/latest/modules/slam.html
	/www.youtube.com/playlist?list=PLgnQpQtFTOGQrZ4O5QzbIHgl3b1JHimN_
·	
`rob	ot_class.py`: Implementation of `sense`
	ement the sense function to complete the robot class found in the robot_class.py file. This
Impl	
	ementation should account for a given amount of measurement_noise and the measurement_range

Notebook 3: Implementation of `initialize_constraints`

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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.

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.

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

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

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

You did not answer the question

The noise makes the result differ. More noise makes bigger difference

There are two provided test_data cases, test your implementation of slam on them and see if the result matches.

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RETURN TO PATH

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