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Unit 5 - Sensors and protocols for next generation automobiles	
Register for Certification exam	Week 3 Assessment
Course outline	The due date for submitting this assignment has passed. Due on 2019-02-20, 23:59 IST.
How to access the portal	1) In which of the following conditions the Platoon can be dissolved?
MATLAB Online Access and Learning Modules	Leader leaves, Platoon size < 3
Localization in IoT - Part 1	• Follower leaves, Followers > 1
Localization in IoT - Part 2	Leader Leaves, Platoon size > 2
Sensors and protocols for	No, the answer is incorrect.
Simulation of simple algorithms	Score: 0 Accepted Answers:
for object detection	All Followers leave, Platoon size=1
collision avoidance	 2) In the Scanse LIDAR shown in the video lecture, the typical signal strength range is, 1 po
 Basic computer vision algorithms Part -1 	Eetween 0-255 Between 0-183
 Basic computer vision algorithms Part -2 	Between 50-191
Code walkthrough of computer vision algorithm	Between 0-225
 Introduction to LiDAR 	No, the answer is incorrect. Score: 0
Range estimation & Obstacle avoidance	Accepted Answers: Between 0-255
 Introduction to vehicle Introduction to vehicle 	3) In the VREP wireless demo example given in lecture "Building smart vehicle for collision avoidance") 1 po
Quiz : Week 3 Assessment	what will happen if the robots are equidistant from the intersection and moving towards each other in the following setup. Speed v0 = 2, $R1x = 1.25$, $R1y = -1.25$, $R1z = 0.138$, $R2x = 0.25$, $R2y = 0.25$, $R2z = 0.138$?
Automotive IoT	Robots collide with each other.
Speech to text processing	Robots move without collision and without stopping.
Device Security	Both the Robots will stop. One Robot will stop and the other will move forward
Air quality monitoring	No, the answer is incorrect.
Case studies	Score: 0
Text Transcripts	One Robot will stop and the other will move forward.
DOWNLOAD VIDEO	4) In LiDAR demonstration, at what safe distance from obstacle the robotic platform will take a turn, 1 po
Interaction Session	400 mm
	• 4 mm • 41 mm
	0.16 mm
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	5) Which can be the SENSE – ACT coupling of Braitenberg implementation for robot to avoid obstacles.
	Consider the robot is equipped with two sensors Right and Left and two motors right-left Motors.
	Right sensor to left motor and right motor to left sensors
	 Right sensor to right motor and left sensor to left motor
	None of the Above
	No, the answer is incorrect. Score: 0
	Accepted Answers: Right sensor to right motor and left sensor to left motor
	6) Which of the below combination would make the robot to always turn right?
	Left wheel motor speed is lesser than Right wheel motor speed
	Right wheel motor speed is greater than Left wheel motor speed
	Left wheel motor speed is greater than Right wheel motor speed
	No, the answer is incorrect.
	Score: 0 Accepted Answers:
	Left wheel motor speed is greater than Right wheel motor speed
	7) In the wireless communication example script given in lecture "Building smart vehicle for collision avoidance"; who is the child script?
	Pioneer p3dx script



175 - 225 cms

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