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NIPTEL

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Courses » Advanced IoT Applications Announcements

Course

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Unit 4 - Localization in IoT - Part 2

Register for Certification exam

Course

outline

the portal

How to access

MATLAB Online

Localization in IoT - Part 1

Localization in

Localization using IMU

sensors - I

Localization using IMU

sensors - II

Localization using IMU

sensors - III

RFID based localization - I

RFID based

localization - II

Quiz: Week 2

Assessment

Sensors and

protocols for next generation

automohile

IoT - Part 2

Access and

Learning Modules

Week 2 Assessment



The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-02-13, 23:59 IS



1 point

1) Which of following will introduce an offset to the phase readings obtained by RFID reader?

- Reader's transmit circuits
- Tag's reflection characteristic
- Reader's receiver circuits
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

- 2) "RFID based localization" technique used in FMCW radar is 1 point
 - TD-PDOA
 - FD-PDOA
 - SD-PDOA
 - Hyperbola positioning

No, the answer is incorrect.

Score: 0

Accepted Answers:

FD-PDOA

3) Using DBSCAN clustering algorithm, which one of the following points is an outlier for epsilon=40, with min number of points=3

Points = (-70,84), (-100,117), (-33,50), (-72,95), (-132,141), (-55,74)

(70 0A)

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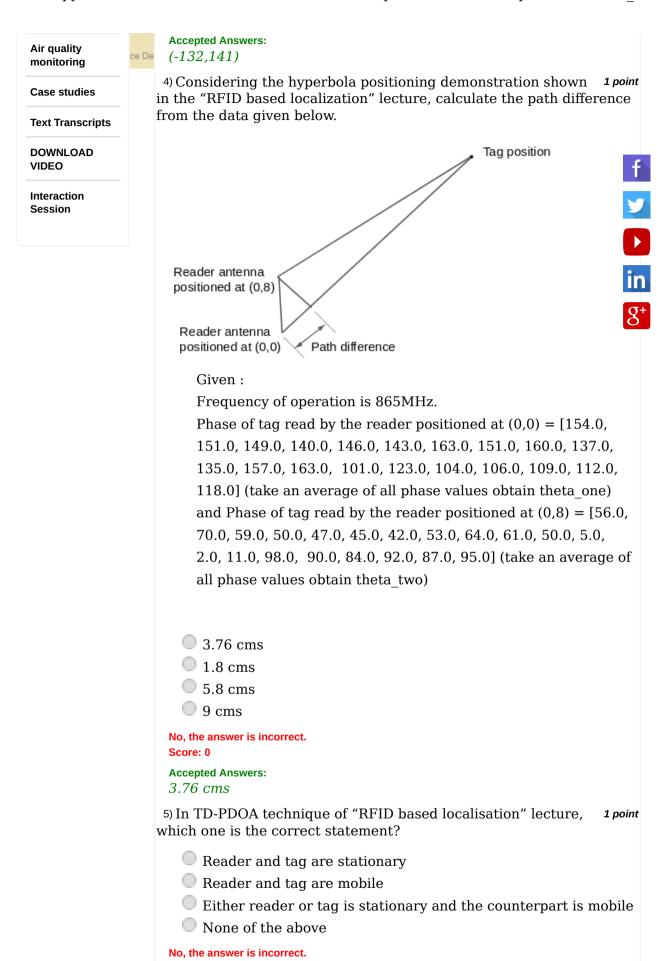
A project of



In association with



Funded by



Score: 0

Accepted Answers: Either reader or tag is stationary and the counterpart is mobile	
6) Which among the following helps us to obtain the orientation of the phone for "Localization using IMU sensors"	1 point
AccelerationMagnetic field intensityGravityNone of the above	f
No, the answer is incorrect. Score: 0 Accepted Answers: Gravity 7) In "Localization using IMU sensors", Weinberg's principle for stride length estimation considers the following	in 1 point 8 ⁺
 Linear acceleration produced while taking steps Vertical bounce observed while taking steps Both a and b None of the above No, the answer is incorrect. 	
Score: 0 Accepted Answers: Vertical bounce observed while taking steps 8) Denoising accelerometer values for "Localization using IMU sensors" will account the following	1 point
Right Cut off frequencyOptimum roll off factorBoth a and bNone of the above	
No, the answer is incorrect. Score: 0 Accepted Answers: Both a and b	
9) In "Localization using IMU sensors", the process to check if the phone is held in Left/Right hand is:	1 point
Using GravityUsing Accelerometer valuesUsing Magnetometer valuesUsing Barometer values	
No, the answer is incorrect. Score: 0	
Accepted Answers: Using Gravity	
10In "Localization using IMU sensors", extensive filtering of IMU sensor reads leads to the following	1 point

