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Courses » Advanced IoT Applications Announcements

Course

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Unit 3 - Localization in IoT - Part 1



Register for **Certification exam**

Course

outline

the portal

How to access

MATLAB Online

Localization in IoT - Part 1

Overview of localization

using IoT

without GPS - I

sensors

Outdoor localization

Outdoor

Outdoor

localization without GPS - II

localization using elevation

- pressure mapping

Quiz : Week 1 Assessment

Localization in IoT - Part 2

Sensors and protocols for

Access and

Learning Modules

Week 1 Assessment



The due date for submitting this assignment has passed.



Due on 2019-02-13, 23:59 IS Assignment submitted on 2019-02-08, 13:42 IST

- 1) Raw sensor data may be insufficient for "Outdoor Localization 1 point without GPS" because
 - Presence of noisy data
 - Cannot be directly used for determining the route map
 - Both (a) and (b)
 - None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Both (a) and (b)

- 2) In the example shown in "Outdoor localization using elevation 1 point - pressure mapping" lecture, why sensor has to be put on vaccine sample?
 - To check whether it has gone in specified path
 - To check the road condition
 - To check whether the vaccine properties are changing
 - All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

To check whether it has gone in specified path

3) For given DTW distance matrix, calculate value of [X, Y, Z]

1 point

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Funded by

Device Security	ce De	5	6		3		
Air quality monitoring		7	3	3	1		
Case studies		Х	2	1	Z		
Text Transcripts							
DOWNLOAD VIDEO		5		Υ	3	4	
Interaction			4	5	7	6	3
Session			. 4 51				
		[3,1,5] [3,0,5]					
			5,1,3				i
		 [5,0,3				8
		No, the answer is incorrect. Score: 0					
			d Answers:				
		[3,1,5 [5,1					
		4) In the given HTML code - https://drive.google.com /open?id=1lMgu9qIDwzIVVe28vokhEeM463il2DAN , the threshold value of angle to be considered as a turn is: 30 Degree 45 Degree 60 Degree 90 Degree No, the answer is incorrect. Score: 0 Accepted Answers: 45 Degree					
		5) For the example given in the "Outdoor localization using a point elevation - pressure mapping" lecture, which sensor has to be put on vaccine sample?					
		O Ion Concentration measurement					
		Magnetometer					
		Barometer					
		(G	Syroscop	Э			
		No, the answer is incorrect. Score: 0					
		Accepte Baron	d Answers: neter				
		6) Whic	dista effec	rr[] has t sensor	the dista	ince valu	rmations are correct? 1 point ies measured from hall eter heading values

```
\sqrt{\frac{1}{2}} xdiff = (distarr[i])*Math.cos((thetaarr[i])*(3.14/180)))
    \square ydiff = (distarr[i])*Math.cos((thetaarr[i])*(3.14/180)))
    \square xdiff = (distarr[i])*Math.sin((thetaarr[i])*(3.14/180)))
    \sqrt{\frac{1}{2}} ydiff = (distarr[i])*Math.sin((thetaarr[i])*(3.14/180)))
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 xdiff = (distarr[i])*Math.cos((thetaarr[i])*(3.14/180)))
 ydiff = (distarr[i])*Math.sin((thetaarr[i])*(3.14/180)))
 7) Which of the following is a normalization equation?
       y' = Normalised Value
       y = Value to be normalised
    y' = (y - min(y)) / (max (y) * min(y))
    y' = (y - \max(y)) + (\max(y) - \min(y))
    y' = (y - \max(y)) / (\max(y) * \min(y))
    y' = (y - \min(y)) / (\max(y) - \min(y))
 No, the answer is incorrect.
  Score: 0
 Accepted Answers:
 y' = (y - min(y)) / (max(y) - min(y))
 8) Select correct optimal path distance value for a feasible DTW 1 point
optimal path involving
     P = [224587] and
     Q = [234686]
 No, the answer is incorrect.
  Score: 0
 Accepted Answers:
 9) In the Unprocessed Dataset 2 - https://drive.google.com
                                                                        1 point
/open?id=174A6GiotDXz7nr0pwxnbtJ7f1GAO32hL , how much distance did
we travel before the first turn was detected?
    150-225m
    400-450m
    850-925m
    1000-1100m
 No, the answer is incorrect.
  Score: 0
 Accepted Answers:
 150-225m
 10If magnetometer heading shows 90°, which of Earth's
                                                                       1 point
direction is it facing?
```

