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Quiz 4

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Multiple Choice

1.0/1.0 point (graded)

'An artificial neural network must have hidden layers' - The statement is

☐ True

☒ False



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Multiple Choice

1.0/1.0 point (graded)

Suppose you are building a drone which can interact with customers and deliver items to it. If an image processing algorithm for face recognition and object detection is built-in the drone, what could be those algorithms? The algorithm should be able to identify people and object very fast.

☐ RNN

☒ YOLO

☐ DEEP ANN

☒ DEEPFACE

☐ R-CNN



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How can we implement computationally heavy algorithms in robots with low processing powers?

☒ implement the algorithm in a central server rather than on the robot

☒ use pre-trained models rather than running whole algorithms all the time

☐ increase the power input



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Multiple Choice

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Suppose you are building an obstacle avoiding robot which can drive avoiding different objects after identifying them. What kind of object recognition task it would be?

☐ classification

☐ detection

☐ segmentation

☒ tagging



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Multiple Choice

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"In image based visual servoing, the difference between the current position of end effector and the current position of the object is determined using motion sensors."- the statement is-

☐ True

☒ False



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Multiple Choice

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Why do we add bias term in an artificial neural network?

☐ To decrease the size of the input

☐ To shift the input of the neurons

☒ To shift the output of the activation function



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Multiple Choice

1.0/1.0 point (graded)

How can IoT help in robotics?

☒ Send processed data from the server

☒ Help in creating network of robots


☐ Help in powering the robot wirelessly

☒ Remotely commanding the robots



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Multiple Choice

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Suppose YOLO model-1 is outputting bounding boxes with IoU of 0.78 and model-2 is outputting with IoU of 0.95. Which one should you choose?

☐ Model-1

☒ Model-2



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In pose-based visual servoing, the robot needs to compare between-

☐ pose of the manipulator and pose of the object


☒ pose of the end-effector and pose of the object

☐ pose of the whole robot body and pose of the end-effector



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Multiple Choice

1.0/1.0 point (graded)

What is the difference between face detection and recognition?

☐ detection means to map a face with a name and recognition means to detect the presence of a face

☐ detection means to count the number of human faces and recognition means to identify whether the face is of a human or a photo

☒ recognition means to map a face with a name and detection means to detect the presence of a face



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