Assignment 1

The due date for submitting this assignment has passed. Due on 2018-02-05, 23:59 IST.

Submitted assignment

1) What are the commonly used software tools for visual computing?
   - Machine learning
   - Convolutional neural networks
   - Computer Vision
   - Pytorch

   No, the answer is incorrect.

   Score: 0

   Accepted Answers:
   Pytorch

2) What is the major feature for employing GPUs in machine vision?
   - Better accuracy
   - Faster convergence
   - Parallel computing
   - Less cost

   No, the answer is incorrect.

   Score: 0

   Accepted Answers:
   Parallel computing

3) What is the market for machine vision for 2020?
   - 9.5 Billion
   - 6.5 Billion
   - 6 Billion
   - 3.5 Billion

   No, the answer is incorrect.

   Score: 0

   Accepted Answers:
   9.5 Billion

4) Which of the following is a statistical texture metric?
   - Wavelets
   - Fourier Coefficients
   - Orientation Histogram
   - Local Binary Patterns

   1 point
No, the answer is incorrect.
Score: 0
Accepted Answers:
Orientation Histogram

5) The size of the Co-occurrence matrix depends on
   - Gray levels in image
   - Image contrast
   - Image entropy
   - None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
Gray levels in image

6) Which of the factors govern high frequency attributes of Gabor wavelet?
   - Centroid of receptive field
   - Spatial frequency
   - All of these
   - Standard deviation of Gaussian

No, the answer is incorrect.
Score: 0
Accepted Answers:
Spatial frequency

7) What is the output of sigmoid function for an input with dynamic range $[0, \infty]$?
   - $[0.25, 1]$
   - $[0, 1]$
   - $[0.5, 1]$
   - $[-1, 1]$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$[0.5, 1]$

8) Assume a neural network with 100 input neurons, 50 hidden neurons and 2 output neurons. How many parameters are to be learned?
   - 5100
   - 5152
   - 10000
   - 50

No, the answer is incorrect.
Score: 0
Accepted Answers:
5100

9) Which of the following function is used for classification?
   - Negative log likelihood
   - KL Divergence
   - Mean square error
   - Absolute loss

No, the answer is incorrect.
Score: 0
Accepted Answers:
Negative log likelihood
10. What is the local binary pattern of

\[
\begin{array}{ccc}
0 & 0 & 1 \\
1 & 1 & 0 \\
1 & 0 & 0 \\
0 & 0 & 0 \\
\end{array}
\]

- 00110110
- 11001101
- 10001101
- 00011011

No, the answer is incorrect.
Score: 0
Accepted Answers:
00011011