Assignment 12

The due date for submitting this assignment has passed. Due on 2018-04-18, 23:59 IST.

Submitted assignment

1) Which of the following topology is true for RNN?  
   - Many to one  
   - Many to many  
   - One to many  
   - Any of the above

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   *Any of the above*

2) Which of the following parameters are needed for RNN in addition to input transformation weights ($W_{h,x,t}$)?  
   - $W_{h,h}$  
   - $h_{t-1}$  
   - Both $a$ and $b$  
   - None of the above

   **No, the answer is incorrect.**  
   **Score: 0**  
   **Accepted Answers:**  
   *Both $a$ and $b*

3) Which of the following gates are used in LSTM?  
   - Input  
   - Forget  
   - Output  
   - All of the above

   **No, the answer is incorrect.**  
   **Score: 0**
4) Given a sequence of T color images of size 224 x 224, how are they organized for tensor processing?

- 3 x T x 224 x 224
- T x 3 x 224 x 224
- 3 x T x M x M
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above

5) Given a sequence of 100 color images of size 224 x 224 and kernel of size 3, no padding, 18 channels and single stride. What is the convolution output?

- 18 x 100 x 222 x 222
- 18 x 98 x 222 x 222
- 18 x 98 x 224 x 224
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
18 x 98 x 222 x 222

6) For temporal learning which architecture is most preferable?

- Autoencoder
- LSTM
- CNN
- None of the above

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

7) Which of the following hurdles of RNN were overcome by LSTM?

- Learning long term dependencies
- Exponential decay of learning rate along time
- Both a and b
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both a and b

8) Which of the following commands create a LSTM with input dimension as 3 and output dimension as 3 through nn module?

- nn.LSTM(3, 3)
- nn.GRU(3, 3).LSTM
- nn.RNN(3, 3).LSTM
- None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both a and b
9) How many variables are generated upon feed forwarding LSTM for 5 step output variables
output and hidden variables
output, hidden and input storage variable
None
No, the answer is incorrect.
Score: 0
Accepted Answers:
nn.LSTM(3, 3)

10) How many variables are fed for lstm
Input
Input and previous hidden state
Input, previous hidden and previous output
None of the above
No, the answer is incorrect.
Score: 0
Accepted Answers:
Input and previous hidden state