

Task-oriented dialog systems

Quiz, 8 questions

1
point

1.

What is considered a part of NLU?

- ☒ Intent classifier
 - ☒ Slot tagger
 - ☐ State tracker
-

1
point

2.

What metrics do we use for NLU evaluation?

- ☐ Number of turns in the dialog
 - ☒ Slots F1
 - ☐ Task success rate
 - ☒ Intent accuracy
-

1
point

3.

Choose correct statements about NLU.

- ☐ Joint NLU model can't produce predictions faster than two separate models combined (one for intent classification and another for slot tagging)
- ☒ Training a joint NLU model helps intent classifier and slot tagger.
- ☒ You can use Convolutional Networks for slot tagging.
- ☒ You can use 1D convolutions for intent classification.

Task-oriented dialog systems

Quiz, 8 questions
1 point

4.

Choose correct statements about dialog context.

☒

We can use memory networks to deal with context.

☒

We can add a simple feature like "previous utterance intent" as a categorical feature to NLU to start taking into account the context of the dialog.

☐

We need dialog context in single-turn dialogs.

1
point

5.

Let me remind you the BIOES lexicon encoding algorithm:

- Let's **match every n-gram** of input text against entries in our lexicon


Take me to San Francisco



- A match is successful when **the n-gram matches the prefix or postfix** of an entry and is at least half the length of the entry

Matches:

- "San" → "San Antonio"
- "San" → "San Francisco"
- "San Francisco" → "San Francisco"

- When there are multiple **overlapping matches**:
 - Prefer **exact** matches over partial
 - Prefer **longer** matches over shorter
 - Prefer **earlier** matches in the sentence over later
- 

We will use **BIOES** coding (Begin, Inside, Outside, End, Single)

Task-oriented dialog systems

Quiz, 8 questions

- B – if token matches the beginning of some entity
- B, I – if two tokens match as prefix
- I, E – if two tokens match as postfix
- S – if matched single token entity
- ...

Suppose you have a **lexicon** of 3 places:

- Los Angeles
- San Francisco
- San Francisco Airport

Let's encode the text "**Los Francisco Airport**".

What encoding will we have?

- ☐ B E E
- ☒ B I E
- ☐ B B E

1
point

6.

What is considered a part of a dialog state in DSTC 2 challenge?

- ☐ The intent of previous utterance
- ☒ Goals
- ☒ Method
- ☒ Requested slots

1
point

7.

How Frames dataset was collected?



Human-human dialogs



Computer-computer dialogs

Task-oriented dialog systems

Quiz, 8 questions



Human-computer dialogs

1
point

8.

Choose correct statements about dialog policy.



We can't learn a dialog manager end-to-end.



This is a mapping from a dialog state to a system action.



We need some kind of NLG (at least with hand-crafted rules) to convert a system policy to a human readable utterance.



I, **Jiadaï Zhao**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

[Learn more about Coursera's Honor Code](#)

Submit Quiz

