

Unit 12 - Week 10

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Assignment 10

The due date for submitting this assignment has passed. **Due on 2019-10-09, 23:59 IST.**
As per our records you have not submitted this assignment.

1) The term 'Java' occurs in Wikipedia 400,657 times, among which 30,057 times it links to the Wikipedia page of Java Island and 370,600 times it has referred to the page of Java programming language. Whereas, another term 'C++', which appears 51,332 times in Wikipedia, always refers to the web-page of the programming language C++. Which of the two terms 'C++' and 'Java' has higher keyphraseness (denote by $K(w)$)?

- $K(Java) < K(C++)$
- $K(Java) > K(C++)$
- $K(Java) = K(C++)$
- Not enough information available for calculation of Keyphraseness.

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
3.

2) You are trying to disambiguate between three different senses of the word 'NLP'. You have found that, on Wikipedia, 'NLP' referred to **Natural Language Processing** 24 times, to **Non-Linear Programming** 36 times and to **Neuro-Linguistic Programming** 8 times. What is the value of *commonness* for the pairs (*NLP*, *Neuro-Linguistic Programming*) and (*NLP*, *Non-Linear Programming*)?

- $\frac{2}{11}, \frac{9}{11}$
- $\frac{2}{17}, \frac{9}{17}$
- $\frac{1}{3}, \frac{1}{3}$
- None of the above

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
2.

3) Relatedness between the context of a key word/phrase and its possible links are measured using:

- Common words and phrases
- Common Inbound and Outbound links between a sense and an unambiguous context page (appearing in the context of the keyword)
- Common Inbound and Outbound unambiguous links between a sense and all linked pages appearing in the context of the key word/phrase
- Commonness of the target link

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
2.

4) Which of the following sequence of steps for entity linking is correct:

- Disambiguation \leftrightarrow Link Generation \leftrightarrow Mention Detection
- Link Generation \leftrightarrow Mention Detection \leftrightarrow Disambiguation
- Mention Detection \leftrightarrow Disambiguation \leftrightarrow Link Generation
- Mention Detection \leftrightarrow Link Generation \leftrightarrow Disambiguation

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
4.

5) Distant supervision relation extraction mechanism has an advantage of:

- Supervised approaches by using reliable hand-crafted knowledge
- Un-supervised approaches by utilizing unlimited amounts of text data
- Both a and b
- None of the above.

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
3.

6) Relevant feature/s for a supervised model for predicting the topics to be linked is/are:

- Disambiguation Confidence
- Relatedness
- n-gram match between the two entities/topics
- All of the above

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
1.
2.

7) Which of the following pattern/s can be utilized for extracting meronym - holonym relations:

- X including Y
- X such as Y
- Both 1 and 2
- X consists of Y

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
4.

8) In Distant Supervision approach for learning a model for relation extraction, how do we obtain negative samples for training the classifier?

- Expert annotated negative samples in text corpus
- Negative samples are created using unrelated entity pairs in Knowledge Base
- Negative samples aren't required in Distant Supervision
- None of the above

1.
 2.
 3.
 4.

No, the answer is incorrect.
Score: 0
Accepted Answers:
2.