SUPERVISED RELATION EXTRACTION (SEMEVAL 2018 TASK 7)

Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

HTTPS://COMPETITIONS.CODALAB.ORG/COMPETITIONS/17422

TASK: SEMANTIC RELATION EXTRACTION AND CLASSIFICATION IN SCIENTIFIC PAPERS

SUBTASKS:

1. IDENTIFY ENTITY PAIRS WHICH FORM A RELATION (BINARY CLASSIFICATION)
2. IDENTIFY THE EXACT RELATION WHICH IS FORMED BY THE ENTITY PAIR (MULTICLASS CLASSIFICATION)

EXAMPLE: Given: entities within text (a preprocessing pipeline can be provided)

The key features of the system include: (i) Robust efficient <entity id="H01-1041.8">parsing</entity> of <entity id="H01-1041.9">Korean</entity> (a <entity id="H01-1041.10">verb final language</entity> with <entity id="H01-1041.11">overt case markers</entity> , relatively <entity id="H01-1041.12">free word order</entity> , and frequent omissions of <entity id="H01-1041.13">arguments</entity>). (ii) High quality <entity

Subtask 1

(H01-1041.8,H01-1041.9)

(H01-1041.10,H01-1041.11,REVERSE)

Subtask 2

USAGE(H01-1041.8, H01-1041.9)

MODEL-FEATURE(H01-1041.10, H01-1041.11,REVERSE)

WORD SENSE DISAMBIGUATION / ENTITY LINKING (SEMEVAL 2015 TASK 13)

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HTTP://ALT.QCRI.ORG/SEMEVAL2015/TASK13/

- TASK: PREDICT THE A DISAMBIGUATED SENSE ID FOR A WORD IN A SENTENCE.
- DATA IS AVAILABLE IN MULTIPLE LANGUAGES: ENGLISH, ITALIAN, SPANISH

Goal: predict babelnet id, wikipedia article id, or wordnet synset id for a span of word ids

```
d001.s010.t002 d001.s010.t004 wiki:European_Medicines_Agency
d001.s010.t003 d001.s010.t003 bn:00054128n
d001.s010.t008 d001.s010.t008 wn:be%2:42:03::
```

Note: this might a **very** hard task!
The outcome is unclear and strongly **research** oriented!

Given: preprocessed text

```
<sentence id="d001.s010">
<wf id="d001.s010.t001" pos="X">The</wf>
<wf id="d001.s010.t002" lemma="european" pos="J">European</wf>
<wf id="d001.s010.t003" lemma="medicine" pos="N">Medicines</wf>
<wf id="d001.s010.t004" lemma="agency" pos="N">Agency</wf>
<wf id="d001.s010.t005" pos="X">(</wf>
<wf id="d001.s010.t006" lemma="ema" pos="N">EMA</wf>
<wf id="d001.s010.t007" pos="X">)</wf>
<wf id="d001.s010.t008" lemma="be" pos="V">is</wf>
<wf id="d001.s010.t009" pos="X">a</wf>
<wf id="d001.s010.t010" lemma="european" pos="J">European</wf>
<wf id="d001.s010.t011" lemma="union" pos="N">Union</wf>
<wf id="d001.s010.t012" lemma="agency" pos="N">agency</wf>
<wf id="d001.s010.t013" pos="X">for</wf>
<wf id="d001.s010.t014" pos="X">the</wf>
<wf id="d001.s010.t015" lemma="evaluation" pos="N">evaluation</wf>
<wf id="d001.s010.t016" pos="X">of</wf>
<wf id="d001.s010.t017" lemma="medicinal" pos="J">medicinal</wf>
<wf id="d001.s010.t018" lemma="product" pos="N">products</wf>
<wf id="d001.s010.t019" lemma="." pos="X">.</wf>
</sentence>
```