# **README**

### **Event Extraction**

获取词向量,可以使用中文预训练模型,也可以参照 DMCNN 中的方法自行训练 Skip-gram

进行事件触发词抽取,即从文本中抽取标识事件发生的触发词,触发词往往为动词和 名词

进行事件论元抽取,即从文本中抽取触发词所对应的事件论元,论元主要为主体、客体、时间、地点,其中主体为必备论元

可以使用 Pipeline 模型也可以使用 Joint 模型

本次实验使用数据集来自2020科大讯飞事件抽取挑战赛初赛,数据为json格式,提供了文本以及相应的触发词、主体、客体、时间、地点,其中除触发词和主体以外,其他为可选字段;数据中给出的 distant\_trigger 只是远程监督标签,并不是真实的标签,真实的触发词标签是 trigger;数据集已经分为了训练集、开发集和测试集,但由于是比赛数据,因此测试集没有提供标签,请同学们在开发集上进行评测

## **Task description**

- Identify event triggers and corresponding arguments in given text
- One sentence can have more than one event
- This implementation identifies event triggers and different types of argument, but does *not* align arguments with events

### Implementation detail

- the whole pipeline is formed as a two-stage sequence-labeling
  - the first stage concerns the identification of events
  - the second stage concerns the identification and classification of arguments
    - in the second stage, the identified event triggers in the first stage is marked by <event> trigger <event/> in the test stage
- Chinese BERT htt/chinese-bert-wwm-ext is used as the default backbone model

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#### How to run

• Fill in TODO part in preprocess.py and util.py

### **Data Preparation**

- put data in data/raw folder
- run preprocess.py , the results are data/processed/argument and data/processed/trigger folders, each containing train.txt and dev.txt
  - o process original train.json, dev.json into data format of char label
  - Since an event trigger or argument may span over several tokens, the labels are in the form of IOB2

#### Train

- 1. run python -u main.py --mode trigger to run the first stage
- 2. run python -u transform.py to generate test file for second stage, after running you will see data/processed/argument/test.txt. Note that if you are not using IOB2 format, you will need to rewrite some parts in transform.py
- 3. run python -u main.py argument to run the second stage

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