

Joint task learning for relation extraction and named entity recognition

Authors

Institution

In this work we present our system for RuREBus challenge held together with Dialog 2020 conference. The task consisted of 3 tracks: named entity recognition, relation extraction with provided named entity tags and end-to-end relation extraction. Our system took the first place for named entity recognition and the second place in the third track. For the second task we failed to submit the solution till the deadline but it was among the best systems. The systems for all tasks are based on Transformer models.

Key words: relation extraction, named entity recognition, transformer, bert

Совместное обучение моделей для извлечения отношений и именованных сущностей

Авторы

Организация

В данной работе мы представляем нашу систему для соревнования RuREBus, проводящегося совместно с конференцией Dialog 2020. Задача состояла из 3 дорожек: распознавание именованных сущностей, классификация отношений между заранее аннотированными именованными сущностями и извлечение отношений из неаннотированного текста. Наша система заняла первое место в задаче распознавания именованных сущностей и второе место на третьей дорожке. Для второй задачи мы не успели своевременно представить решение, но оно оказалось в числе лучших систем. Системы для всех задач основаны на моделях Transformer.

Ключевые слова: извлечение отношений, распознавание именованных сущностей, transformer, bert

1 Introduction

Relation

1.1 Named entities recognition

1.2 Stand-alone relation extraction

1.3 Relation classification with provided named entity tags

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