Referat Mai Linh Pham (Montag, den 12.06.2017)

Analysis of NIL Results in an Entity Linking System

First of all she was talking about the definitions of Entity Linking, NIL Results and Fine – Grained Entity Annotation.
Entity Linking is a Process of linking mentions from text to corresponding entity in knowledge base.
For NIL Results we got the explanation, that Entities are not linked to the KB.
And Fine – Grained Entity Annotation set has more tags than standard NER tags.
For example LOC, ORG, PER and MISC.

Next she told as about the Motivation of her topic.
Entity Linking systems can not link all entities. The reason for this some entities are missing from KB.
Moreover we would like to improve Entity System.
And last we want to introduce a new method for clustering.
So basically our goal here is to examine whether fine-grained types are useful for clustering and anaylzing NIL mentions.

She was explaining the Tasks, which are combine outputs of an entity annotation tool and an entity linking system. Next extract NIL outputs and cluster NIL outputs.

In her next page she showed us the process and each tasks in a graphic which was very understanding.

After the explanation of the process she was talking about the tools which she is using for her Anaylsis.
The first one is the FIGER. This tool allows overlapping types. Also it recognize better uncommon entities than compared to other tools.

The next tool is the WAT. It has 3 different components. The spotter, which scans input text for mentions and retrieves lists of candidate entites. Next we have the disambiguator. It ranks candidate entities with different disambiguation algorithms. And last we have the pruner. It removes usless annotations and aims at increasing the precision.

At the end she was telling us about the conclusion of Fine-grained entity types.
It can be used for clustering semantically related NIL mentions. Another point, information which are anchord in tags can be used for analysis and are more informative than coarse-grainded types.