- Identify all mentions that refer to the same entity in the world

Applications

- Full text understanding
 - · info. extraction, question answering, summarization, ...
- Machine translation
 - · 언어마다 때에서 다고고, 맹사·교육사등에 생존被处方
 - Dialogue Systems
 - · 대화형, 상호각용

Coreference 1271

- 1. Detect the mentions (easy)
- 2. Cluster the mentions (hord)

Mention Detection

mention: a span of text referring to some entity

- Fronains part of speech tagger
- Named artitles Named Entity Recognition system
- Noun phrases

parser

<traditional pipeline systems>

Anaphora: a different-but-related linguistic concept, When a term refers to another term

Barack Obama said he would sign the bill.

anteredent anaphor

즉3 anaphora 전에 anteredent=당 (Cataphora는 아님)

Four kinds of coreference models
- Rule-bosed - Mantion Ranking
-Mention Parir - Clustering
8
Hobbis naive algorithm
Winograd Schana
Mention Pair
-Train a binary classifier that assigns every pair of mentions
a probability of being coreferent
- Look at all candidate antecedents and decide which are coreferent within
Mention Ranking
- Assign each mention its highest scoring condidate antecedent according to the model
- Dummy NA mention allows model to decline linking the current mention to anything
1D convolution
End-to-End deep learning
(0