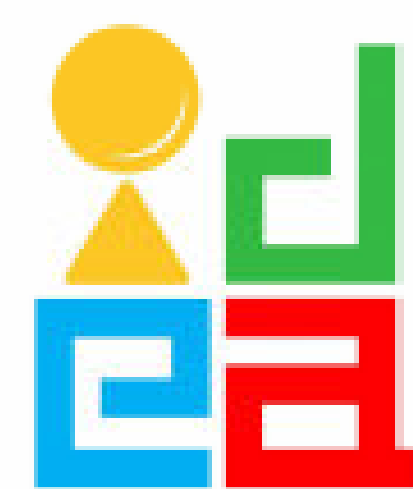# Using Ontology-Based Event Extraction for Chinese News to Estimate Story Event Comments

Ching-Yen Hsiao,IDEA Lab

國立清華大學
NATIONAL TSING HUA UNIVERSITY

Introduction & Motivation

An ontology is a formal conceptualization of a real world, and it can share a common understanding of the real world. For people like writers knowing public comments for events in the real world is important. If writers can get comments while arranging story events, they can have more understanding for reader's reaction.

Objectives

· Retrival public comments from news events with semantic similarity relationship for a short Chinese story by constructing news events ontology.

Challenges

· The complexity of measure similarity of different combination of events.
· Implicit information, e.g. there is information that is not stated explicitly in the news event but is understood by human readers from its context.

Framework

Input:Story event text

小明酒後情緒失控毆打老父。

Ontology construction

Dataset

Chinese News& comments

Chinese dictionary

Pre-Processing
- Word Segment
- News Clustering

News Ontology Event Model
- Concept Extractor
- Relationship Finder

Repository

Event Extraction

打attack
兒子 Son → 爸爸 Father

Similarity Measure
- Ontology mapping
- Relation Ranking

Select Comments

Story Event Comments

我拳頭都硬了！

難怪越來越少人想生孩子，以前是養兒防老，現在要防養老兒。

生塊叉燒都比生你好！

Social News
Title:被罵米蟲 逆子亂棒打死父

Text:新北市一名無業逆子，前晚在家中客廳看電視時，被返家父親痛斥：「不找工作，只會當米蟲！」逆子一怒之下拿鋁棒朝父親頸、背猛擊，無視父親已倒地竟出門找朋友，昨凌晨返家發現父親奄奄一息才報警，警消趕至其父已明顯死亡。

Comments:
· 難怪越來越少人想生孩子，以前是養兒防老，現在要防養老兒。
· 我拳頭都硬了！

Social News
Title:逆子要不到錢，鐵棒重擊父親頭

Text:屏東縣恆春一對王姓父子，今天下午5時爭執，父親不滿38歲兒子無業又只會伸手要錢，拿鐵棒教訓兒子，沒想到兒子一時氣憤，也反持鐵棒從父親頭部重擊，2人皆頭部外傷送醫。

Comments:
· 生塊叉燒都比生你好！
· 我拳頭都硬了！

Subject: 逆子 Son

Topic: Social

Object: 父親 Father

Event: 逆子鐵棒重擊父

Action: 重擊 attack

Place: 屏東縣恆春

Time: 今天下午5時