Next RITE task:

RITE-VAL

Recognizing Inference in TExt and Validation

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RITE-VAL

Applications
- IR
- QA

Other NTCIR tasks
- QA Lab

FACT VALIDATION

Multiple sentence-level inference

Sentence-level inference

Pyramid of entailment recognition technology

System Validation

Linguistic phenomena-level inference

Unit Test

World knowledge
- lexical rel.
- phrase rel.
- case alternation
- quantification
- coordination
- modification
- negation
-...

Search
- entailment?
- contradiction?

Documents

Sentence

Sentence

BC

MC

entailment?
paraphrase?
entailment?
contradiction?

RI1
RI2
RITE-VAL

Application oriented

Foundation oriented
Fact Validation in RITE-VAL

The Kamakura Shogunate was considered to have begun in 1192, but the current leading theory is that it was effectively formed in 1185.

Is the statement represented in the sentence fact?

$t_2$: *The Kamakura Shogunate began in Japan in the 12th century.*

Search

There is a sentence (sentences) that entails $t_2 \implies \text{FACT}$
Fact Validation in RITE-VAL

• Motivation
  - There were few participants in the Exam Search subtask (has not yet been explored enough)
  - Applications: Detecting false rumors, QA, etc.

• Language Scope
  - Japanese, Traditional/Simplified Chinese and English

• Task definition (provisional)
  - t2s and a set of documents are given
  - Systems are required to validate whether the statements described in t2s are fact, counter-fact or unknown by searching a set of documents

• Evaluation
  - Accuracy on semantic labels (fact, counter-fact, unknown)
UnitTest in RITE-VAL

$t_1$: In the Meiji Constitution, legal clear distinction between the Imperial Family and Japan had been allowed. ➡️ Category: modifier

$t_2$: In the Meiji Constitution, distinction between the Imperial Family and Japan had been allowed.

$t_1$: In the Meiji Constitution, distinction between the Imperial Family and Japan had been allowed. ➡️ Category: melonymy

$t_2$: In the Meiji Constitution, distinction between the Emperor and Japan had been allowed

• Motivation
  ➢ Evaluate how systems can handle linguistic phenomena that affects entailment relations
  ➢ The UnitTest data used in RITE-2 was not enough (less than 1000 examples)
  ➢ Encourages participants to improve RITE systems

• Language scope
  ➢ Japanese, Simplified Chinese and Traditional Chinese
Summary

• RITE-VAL
  - Recognizing Inference in TExt for Validation

• Main tasks
  - Fact Validation
    - Recognize whether a statement represented in a sentence is fact, counter-fact or unknown
  - UnitTest
    - Develop large-scale data set to encourage participants to improve RITE systems

• Thank you!