Introduction to NTCIR-11 RITE-VAL Task
(Recognizing Inference in Text and Validation)

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Overview of RITE-VAL

• RITE is a benchmark task for automatically detecting the following semantic relations between two sentences:
  – entailment, paraphrase and contradiction.

• Given a text $t_1$, can a computer infer that a hypothesis $t_2$ is most likely true (i.e., $t_1$ entails $t_2$)?
  – $t_1$: Yasunari Kawabata won the Nobel Prize in Literature for his novel “Snow Country.”
  – $t_2$: Yasunari Kawabata is the writer of “Snow Country.”

• Target languages:
RITE-VAL Subtasks

Pyramid of entailment recognition technology

System Validation

Linguistic phenomena-level inference

Fact Validation

Applications
IR
QA

Other NTCIR tasks
QA Lab

APPLICATION ORIENTED

APPLICATION ORIENTED

APPLICATION ORIENTED

FOUNDATION ORIENTED

Search

entailment ?
contradiction?

IRT1 RITE2 RITE-VAL
Main two tasks of RITE-VAL

**Fact Validation**

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

Search for evidence or counter-evidence for $t_2$.

Docs entail $t_2$.

Docs contradict $t_2$.

**System Validation**

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

Category: modification

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

Category: meronymy

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

$t_2$: In the Meiji Constitution, distinction between the Emperor and Japan had been allowed.
Why you should participate

• Products from RITE-VAL can benefit various research fields in NLP (not limited to recognizing textual entailment!).
  – **Core technologies**: Semantic processing, Lexical knowledge acquisition, Machine learning, etc.
  – **Applications**: Information retrieval, Question answering, Document summarization, etc.

• We welcome a wide variety of participants from all over the world.
  – From undergraduate students to industry researchers.
  – **Resource pool**, which we have built since NTCIR-10 RITE-2, will help you make a prototype system quickly.
  – Adding a new resource or tool to the pool is welcomed.

• Website: [https://sites.google.com/site/ntcir11riteval/](https://sites.google.com/site/ntcir11riteval/)