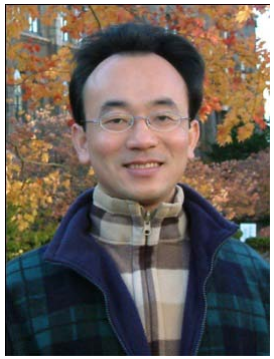
Tamkang University

淡江大學

IMTKU Textual Entailment System for Recognizing Inference in Text at NTCIR-10 RITE-2

Demo

http://rite.im.tku.edu.tw



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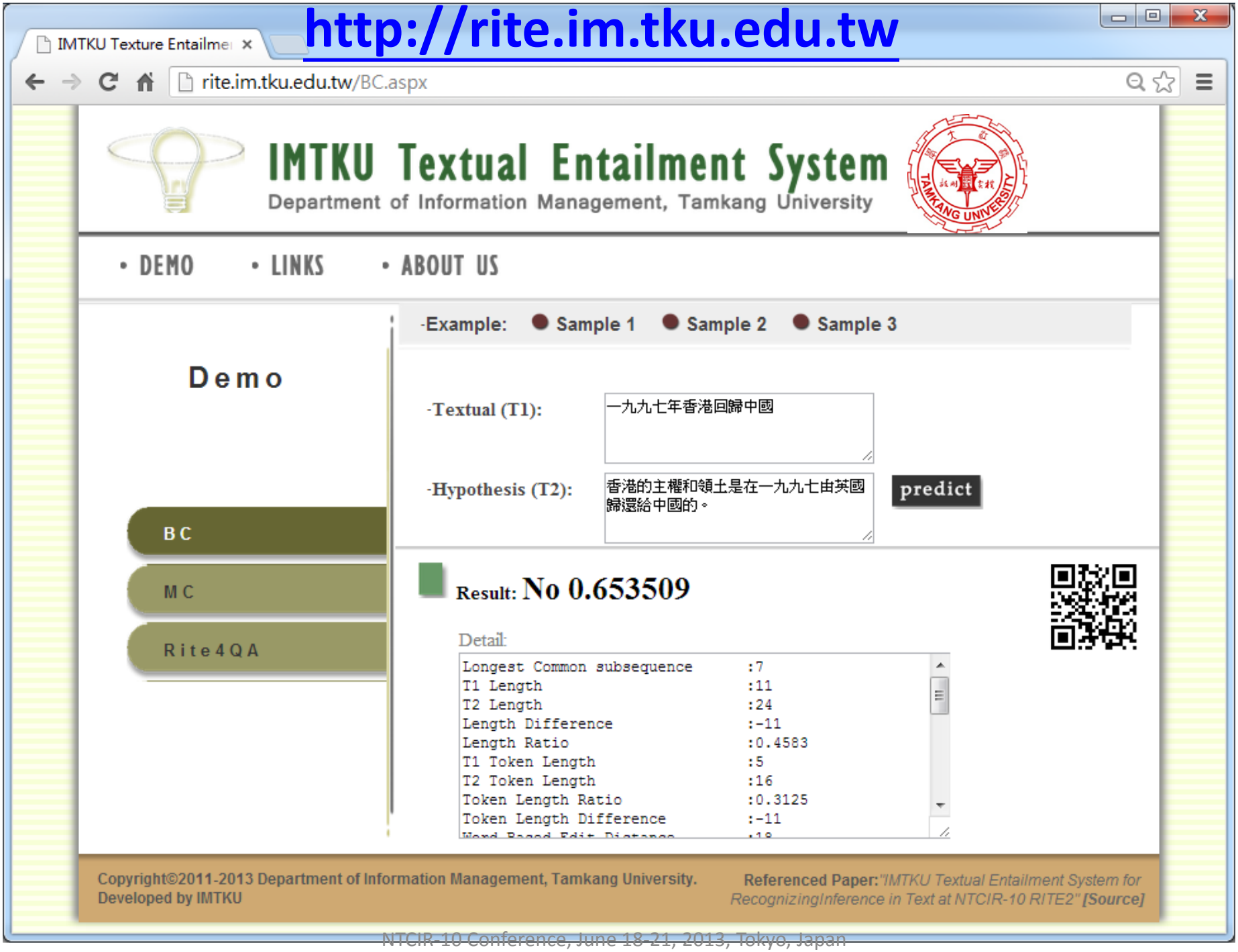
Hou-Cheng Vong, Shih-Wei Wu

myday@mail.tku.edu.tw

2013/06/19
NTCIR-10 Conference, June 18-21, 2013, Tokyo, Japan

http://rite.im.tku.edu.tw



http://rite.im.tku.edu.tw

IMTKU Texture Entailme

rite.im.tku.edu.tw/BC.aspx

IMTKU Textual Entailment System

Department of Information Management, Tamkang University

• DEMO • LINKS • ABOUT US

-Example: Sample 1 Sample 2 Sample 3

Demo

-Textual (T1): 一九九七年香港回歸中國

-Hypothesis (T2): 香港的主權和領土是在一九九七由英國歸還給中國的。

predict

BC

MC

Rite4QA

Result: No 0.653509

Detail:

```
Word Similarity                 :0.8747
Word Net Similarity             :18.55
Word Net Similarity Ratio       :23.0833333333333
Word Net Similarity Short       :30.3333333333333
Negation Number Difference      :0
Antonym Number Difference       :0
T1: 一九九七年香港回歸中國
T2: 香港的主權和領土是在一九九七由英國歸還給中國的。
T1 CKIP:   ?(QUESTIONCATEGORY)  一九九七年(N)  香港(N)
  回歸(Vt)  中國(N)
```

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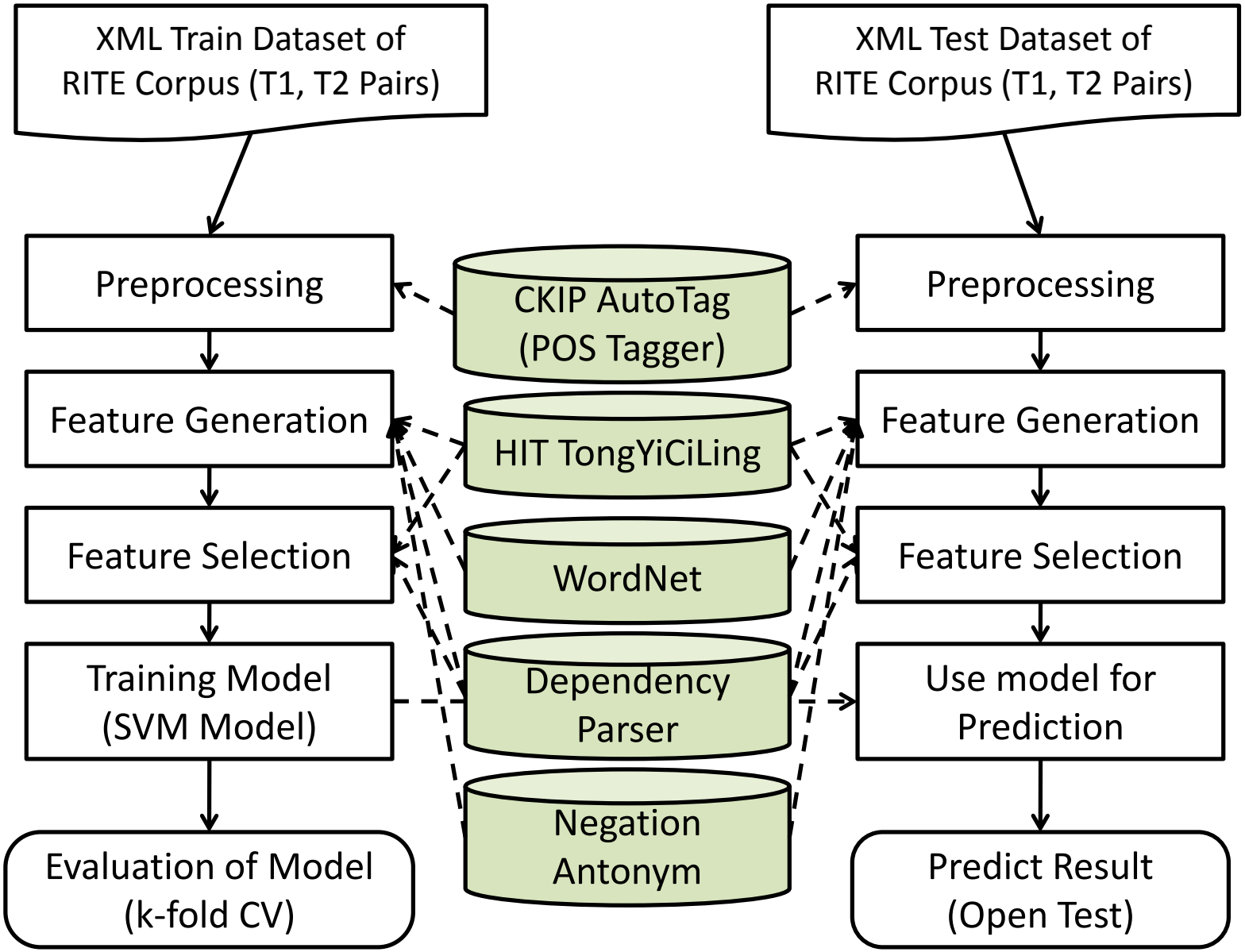
Developed by IMTKU

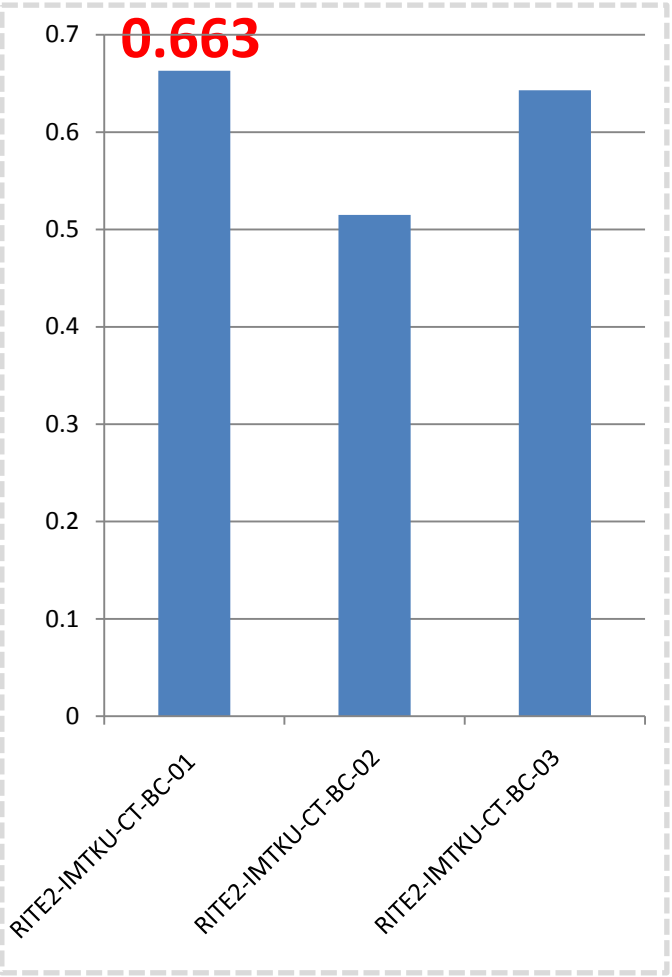
Referenced Paper:"IMTKU Textual Entailment System for RecognizingInference in Text at NTCIR-10 RITE2" [Source]

IMTKU System Architecture for NTCIR-10 RITE-2

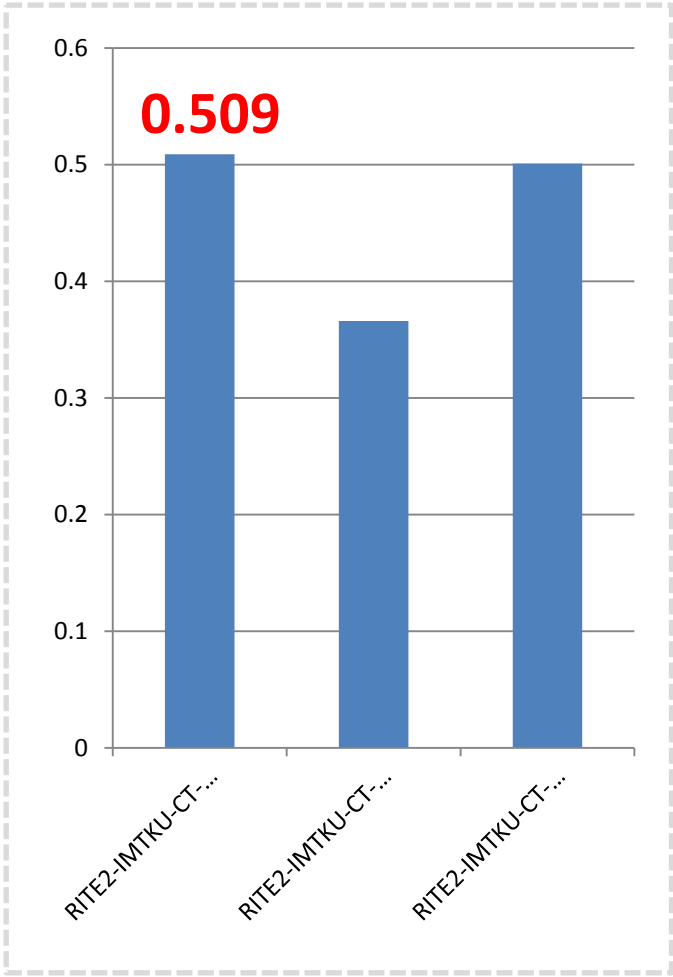


IMTKU at NTCIR-10 RITE-2 Task Performance

CT-BC Subtask Accuracy

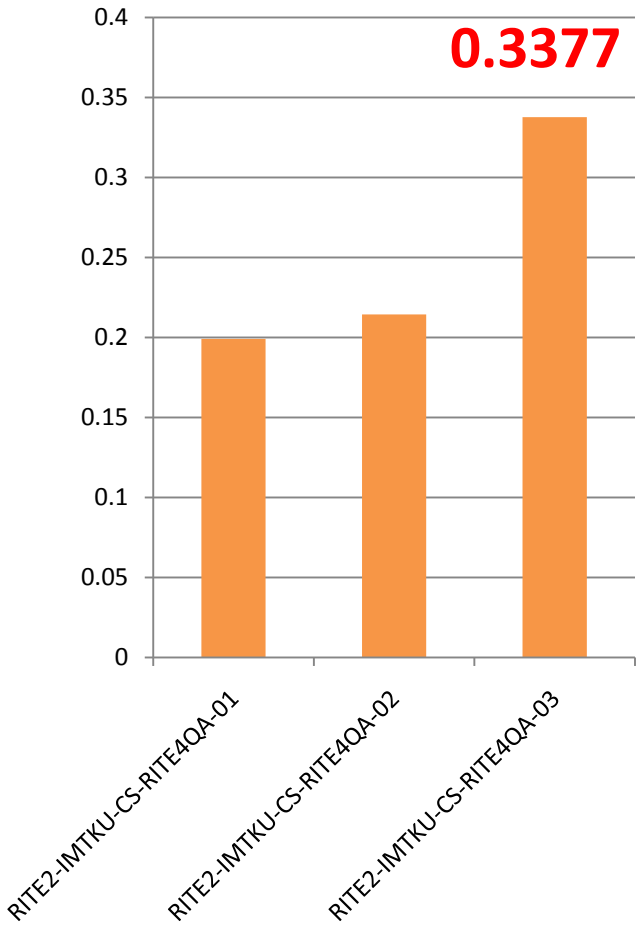


CT-MC Subtask Accuracy

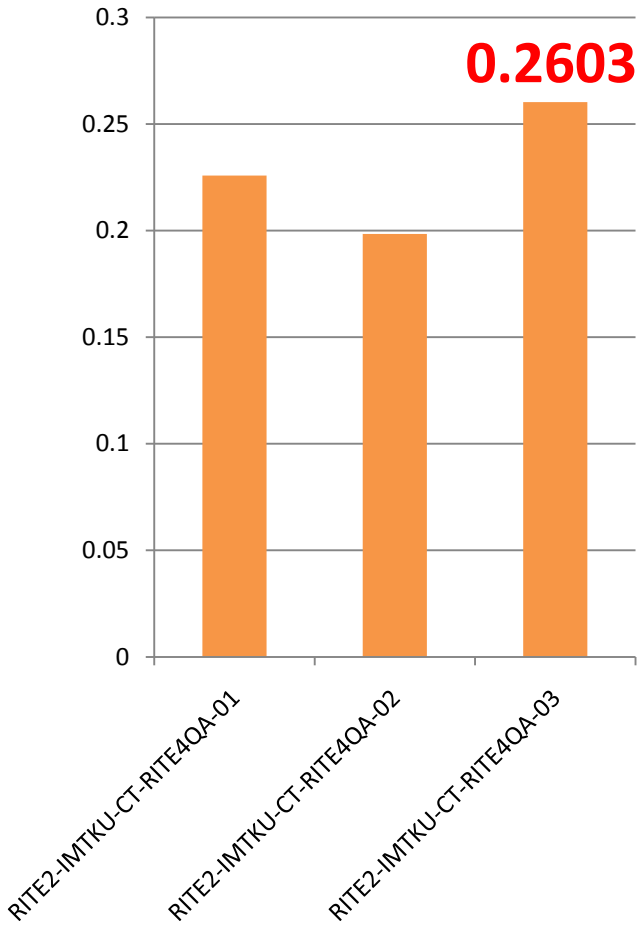


IMTKU at NTCIR-10 RITE-2 Task Performance

CS-RITE4QA Subtask MRR



CT-RITE4QA Subtask MRR



IMTKU Experiments for NTCIR-10 RITE-2 Datasets

Datasets	10 Fold CV Accuracy
RITE2_CT_dev_test_bc_g.txt (RITE2 BC Dev + Test Dataset: 1321 + 881 = 2202 pairs)	68.85%
RITE1_CT_r1000_dev_test_bc_g.txt (Random select **1000 pairs** from RITE1 BC Dev+ Test Dataset)	**73.83%**
RITE1_CT_dev_test_bc_g.txt (RITE1 BC Dev +Test Dataset: 421 + 900 =1321 pairs)	72.29%
RITE1_CT_dev_bc_g.txt (gold standard) (RITE1 BC Development Dataset: 421 pairs)	72.21%

IMTKU Experiments for NTCIR-9 RITE Datasets

Datasets	10 Fold CV Accuracy
RITE1_CT_dev_bc_g.txt (gold standard) (BC Development Dataset: 421 pairs)	**76.48%**
RITE1_CT_test_bc_g.txt (BC Test Dataset: 900 pairs)	66.33%
RITE1_CT_dev_test_bc_g.txt (BC Dev+Test Dataset: 421+900 =1321 pairs)	67.67%

https://sites.google.com/site/emrite2013/

IEEE EM-RITE 2013

https://sites.google.com/site/emrite2013/

2013 IEEE International Workshop on Empirical Methods for Recognizing Inference in TExt

EM-RITE 2013

In conjunction with IEEE IRI 2013

San Francisco, USA
August 14, 2013

MENU

- Call for papers
- Important dates
- Organizing committee
- Paper Submission
- Workshop Program

LINKS

- IEEE IRI 2013
- IEEE EM-RITE 2013
- IEEE EM-RITE 2012

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Welcome to IEEE EM-RITE 2013

IEEE International Workshop on Empirical Methods for Recognizing Inference in TExt (IEEE EM-RITE 2013)

In conjunction with IEEE IRI 2013

San Francisco, USA
August 14, 2013

Textual Entailment and Paraphrase are inference tasks of natural language processing (NLP) for automatically detecting entailment, paraphrase, and contradiction in texts. The aim of this workshop is to provide a forum for original high-quality research contributions on empirical methods for recognizing inference in text as well as multidisciplinary research opportunities.

Topics of interest include but are not limited to practical areas that span a variety of aspects of empirical methods for recognizing inference in text including:

- Guidelines, standards, best practices and models for the construction and annotation of Textual Entailment datasets
- Evaluation of Knowledge Resources for Textual Entailment
- Recognizing Inference in Text
- Recognizing Textual Entailment

Q & A

Tamkang University

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