A Test Collection for Coreferent Mention Retrieval

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Corpus

CMR: query is a mention with surrounding context

Chief Warrant Officer Bobby Hall arrived at 2:35 P.M. Friday at MacDill Air Force Base in Tampa, Fla. Two weeks after his U.S. Army helicopter dropped from the sky and into an international incident in North Korea, an emotional Bobby Hall flew home late Friday and offered his account of the Dec. 17 crash that led to his 13 days in captivity. Met at MacDill Air Force Base here by his wife, two children and his predecessor Chief Warrant Officer Hall, 28, in a quartering voice, read a statement describing the downgrade of his helicopter and the death of his comrade. "We stood in silence until the motorized zone that separated North and South Korea." I really don't know how we ended up across the DMZ," Hall said. "I know that, we shouldn't be here."

QUERY

NYT_ENG_20091001.0009:1549:1633:1589:1602

Jim Cracchiolo

Doc ID

Sentence start:end

Sentences

QUERY MENTION

BANK OF AMERICA BELLS MUTUAL FUND UNIT

"We do n't need two of everything," said Jim "Cracchiolo," Ameriprise 's chief executive. Ameriprise said it hopes to save $130 million to $150 million per year by combining the units.

CANDIDATE MENTION

LAST CALL FOR MOONSHOT

"I thought Anheuser-Busch was my competitor, not the federal government."

How likely is the candidate the same as the query?

First 3 annotators agreed 61% of the time

2 additional annotators for remaining cases

If <4 of 5 agree marked as "Unknown"

Baseline Systems

System

Features (weight)

mention

mention words

doc

mention words (9)
document words (1)

QE

mention words (0.81)
document words (0.29)
expansion words (0.1)

coref

document coreference chain

DiscK

mention string, mention words mention type, character trigrams acronyms document words
document coreference chain (learned weights)

---all built with Lucene

EVALUATION

Inferred Average Precision (infAP)

7,244 sentences annotated, 4,123 Relevant cases

SYSTEMS

Produce ranked lists of candidates

CANDIDATES

AFP_ENG_20090815.0321:194:365
Jim Morr at same time closed a chapter.

AFP_ENG_20090809.0323:1054:1231
US Senator Jim Webb confirmed Saturday.

Pooled results from 5 systems

Mechanical Turk Annotation

DOC	ID

Sentence start:end

Sentence String

---all built with Lucene