National Institute of Standards and Technology
Technology Administration, U.S. Department of Commerce

TDT2000 Link Detection Evaluation Results

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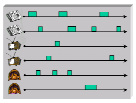
Spoken Natural Language Processing Group

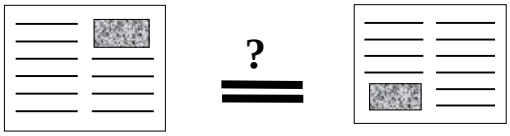


TDT Link Detection Task

One Participant: University of Massachusetts

System Goal:

- **To detect whether a pair of stories discuss the same topic.**
  (Can be thought of as a "primitive operator" to build a variety of applications)

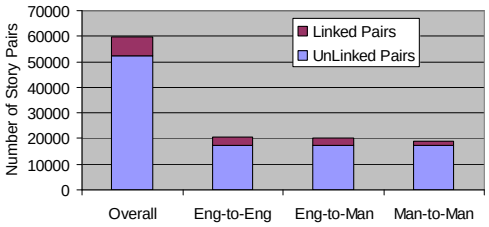


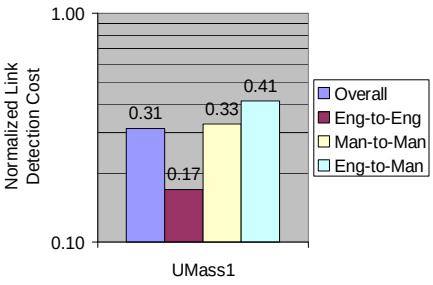
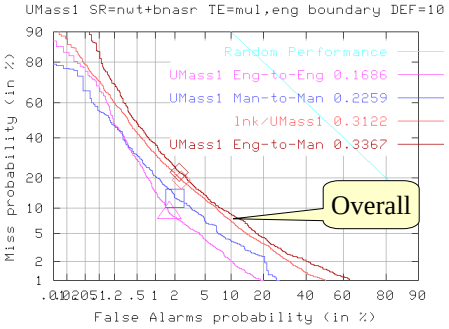
NIST Speech Group

2000 Link Detection Results

- A lot was learned last year:
  - The test set must be properly sampled
    - "Linked" story pairs were selected by randomly sampling all possible on-topic story pairs
    - "Unlinked" pairs were selected using all on-topic stories as one of the pair, and a randomly chosen story was chosen as the second
  - This year, the task was made multilingual
  - More story pairs were used

Link Detection Test Set Composition



Link Detection Results

- Required Condition
  - Multilingual texts
  - Newswire + Broadcast News ASR,
  - Reference story boundaries
  - 10 file decision deferral