

**NTCIR-12 Core Task:  
Spoken Query and Spoken Document  
Retrieval 2 (SpokenQuery&Doc-2)**

Tomoyosi Akiba (Toyohashi University of Technology)

Hiromitsu Nishizaki (Yamanashi University)

Hiroaki Nanjo (Ryukoku University)

Gareth Jones (Dublin City University)

# What's SpokenQuery&Doc?

- Information Retrieval by using “spontaneously spoken query” targeting “spoken documents”.



Overcome it by using Speech!



I'm going to go climbing **Mt. Fuji** in next summer vacation. Well, I hear the accident um... I hear the news about the accident in the climbing. Well, someone has missed or someone lost one's way in the mountain. So I would like to know what should I prepare for climbing, what equipment, equipment is necessary. I would like to know what should I prepare when I go climbing.

# Sub-tasks in Spoken Query&Doc-2

- SQ-SCR sub-task
  - Spoken Query driven Spoken Content Retrieval



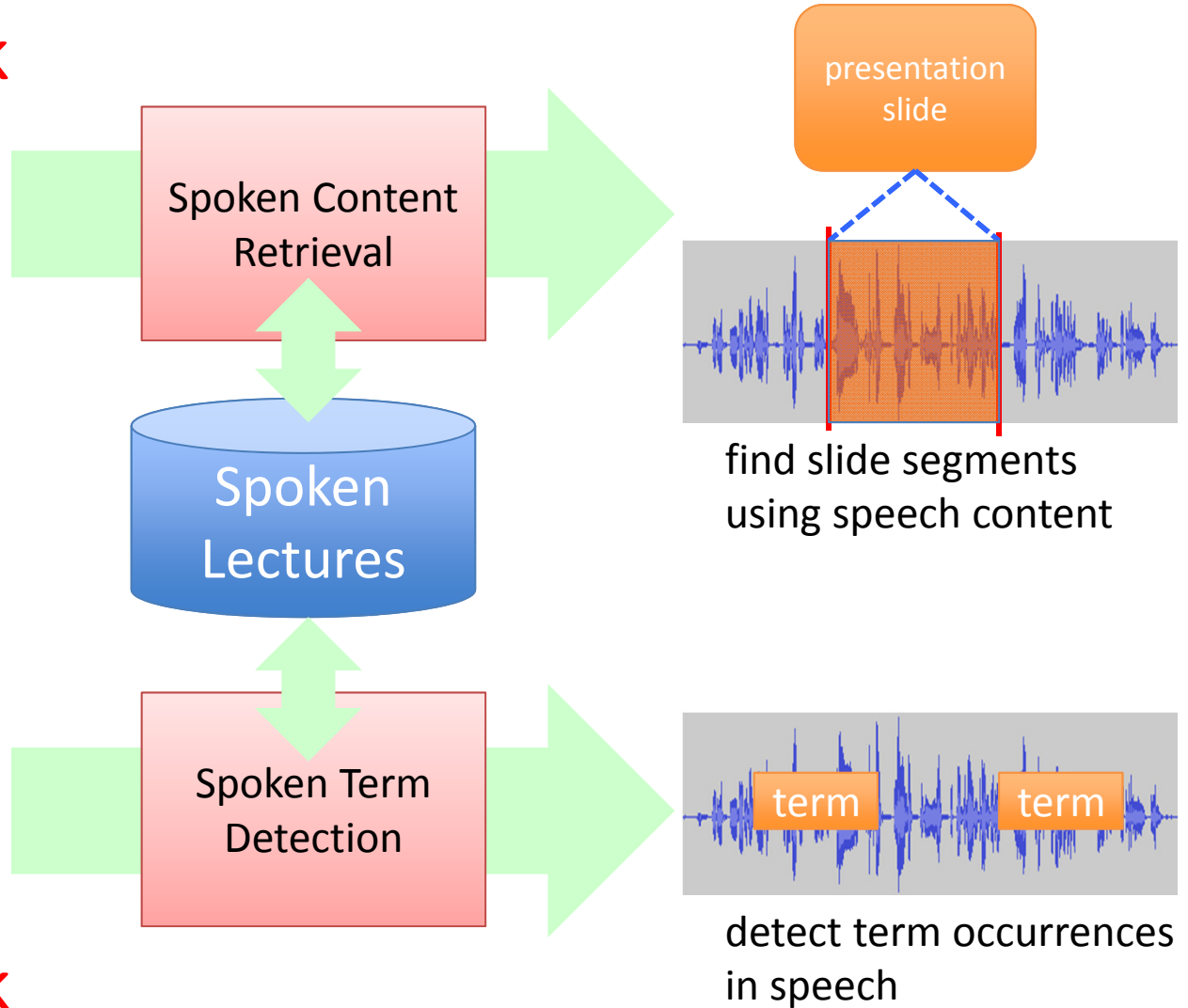
- SQ-STD sub-task
  - Spoken Query driven Spoken Term Detection

# Sub-tasks in Spoken Query&Doc-2

## SQ-SCR sub-task

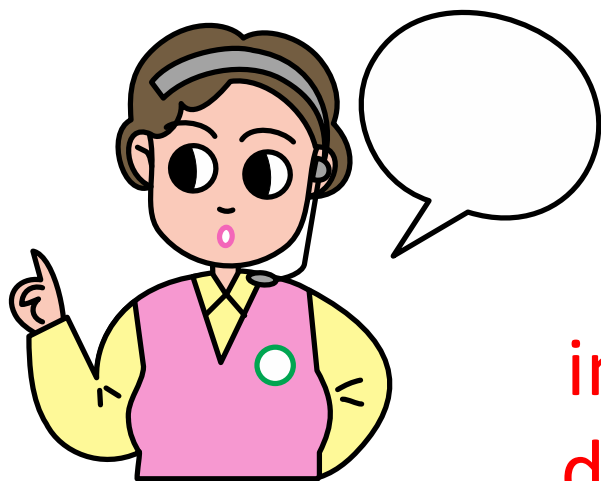


## SQ-STD sub-task



# What's new in SpokenQuery&Doc-2?

1. Enhance spontaneously spoken query topics
  - from 37 (NTCIR-11) to **100 topics**.
  - provide "**well arranged**" query topics as well.



spontaneously spoken  
query topic



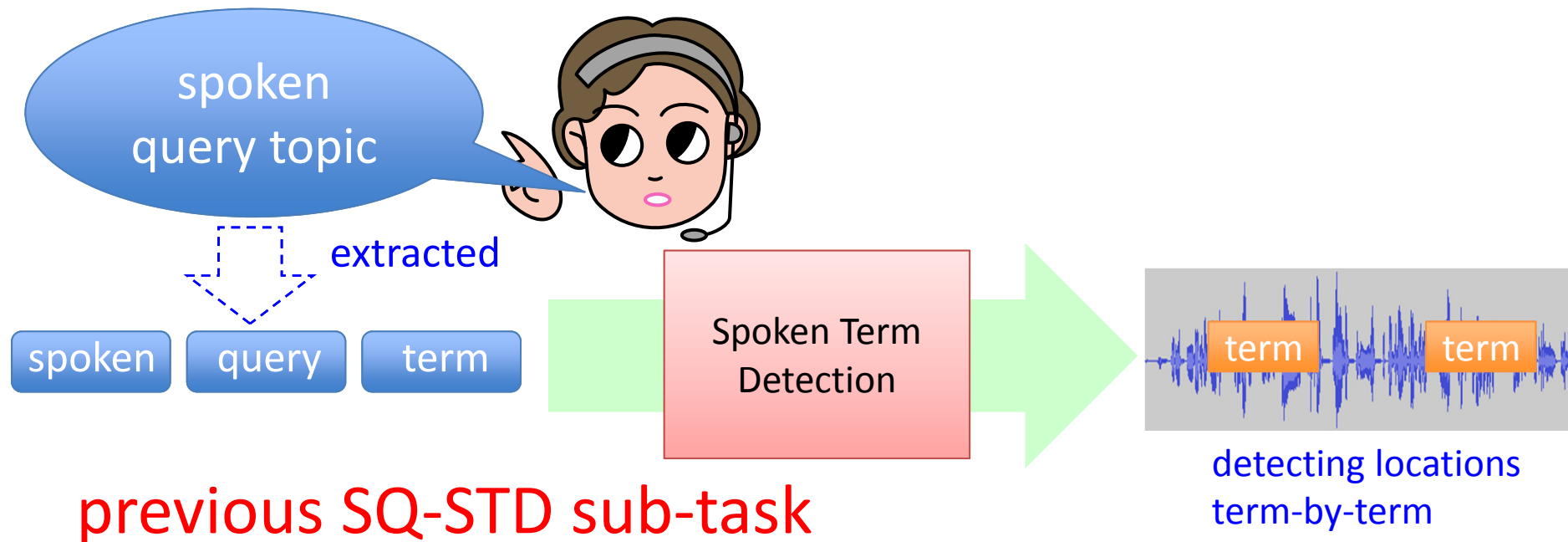
investigate  
differences



edited "well-arranged"  
query topic

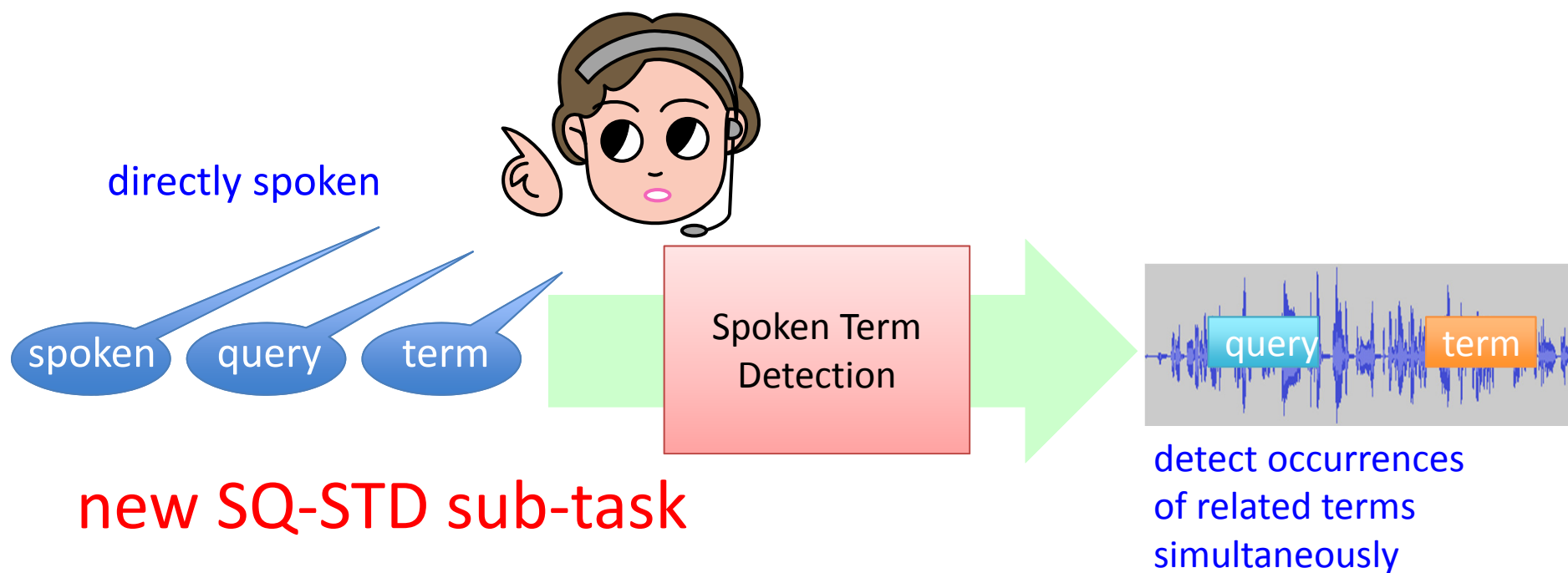
# What's new in SpokenQuery&Doc-2?

2. New SQ-STD sub-task using separately spoken keywords
  - based on more **realistic** operational setting
  - evaluate **spoken "multi-term" detection**



# What's new in SpokenQuery&Doc-2?

2. New SQ-STD sub-task using separately spoken keywords
  - based on more **realistic** operational setting
  - evaluate **spoken "multi-term" detection**



# Task participants will be provided with Rich Data!

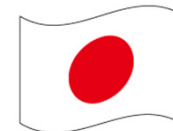
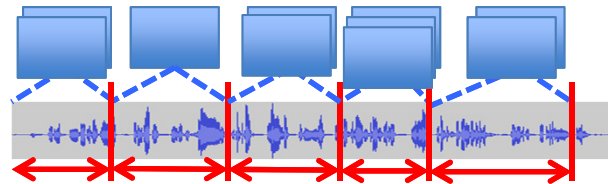
- for both **spoken queries** and **spoken documents**.

- consist of ...

- Speech data
- Manual Transcription
- Various Automatic Transcriptions
- Slide-to-Speech alignments
- Acoustic and language models for ASR

- **Resources for Japanese language processing**

- for supporting participant groups not familiar with Japanese



Visit our Web site for more information!

<http://www.nlp.cs.tut.ac.jp/ntcir12/>