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”.

Mt. Fuji is the highest mountain in Japan. 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

Spoken query topic

SQ-STD sub-task

Spoken Content Retrieval

Spoken Lectures

Spoken Term Detection

find slide segments using speech content

detect term occurrences in speech

presentation slide
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

edited “well-arranged” query topic

investigate differences
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/