WWW-based multilingualized system for technical listening training

Session 2aED11  9:00 ~ 12:00  with demonstration

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What listening ability is required for professionals on acoustics?

- Listening two different sounds
  - What psychophysical property is different?
  - What physical property is different?
  - How different (quantity or quality)?

- Listening a sound
  - How does it sound?
    - Reverberation, Distortion, Frequency Response
    - Harmonicity, Height, Timbre

- It is difficult to acquire the ability without having any experience.
Technical Listening Training

- Supplies systematic and controlled training.
- Discrimination of two sounds
  - Higher or lower in pitch
  - Louder or fainter in loudness
  - Etc.
- Identification of a sound or using two sounds
  - How long reverberation time is?
  - Which octave band is boosted?
  - Etc.
Previous systems for technical listening training

- An audio CD or a multimedia software
  - Training is fixed.
  - Presentation order is fixed. (Audio CD)
  - No automatic recording of training results

- An exclusive system
  - Locations and apparatuses are fixed.
  - Customizations by users are not available.
  - Expensive!!
WWW-based auditory training system

- Hardware and software are easily organized.
- Customization is easy (using form interface).
- Individual or simultaneous training
- Difficulty of discrimination training is automatically set up individually.
- Results of training are stored and displayed individually.
- NEW!! Multilingualized (GNU gettext mechanism)
  - Default language: English and Japanese
  - Translating message catalogs makes other languages available without changing the software.
Demonstrations and Links

- Discrimination training
  - Screen grab movie (wmv format, 164kbps, hyperlink)

- Identification training
  - Screen grab movie (wmv format, 164kbps, hyperlink)

- Trial page (HTTP hyperlink)
  - Get temporal username and password, and try.
  - Available for 24 hours per try

- Download the system (FTP hyperlink)
  - You can install it on a UNIX-based server.
  - The system can be distributed and modified under the terms of a GNU GPL (General Public License).