

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 sounds?
 - 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).