

MAT Speech Database – TCC-300

1. TCC-300

This is a collection of microphone speech databases produced by National Taiwan University, National Cheng Kung University, and National Chiao Tung University. The speech data of each university are provided by 100 speakers (50 males and 50 females). Totally TCC-300 contains speech data from 300 speakers. The speech signal is recorded under the following conditions.

sampling rate : 16kHz
bits per sample : 16
encoding type : 16-bit linear PCM
allowed data length : 475 Chinese characters, including punctuation marks in each speech data file
speaking style : read

They are grouped into eleven groups. A detail description is given in the following table.

Group	Number of files	Content type	Recording site
G1	f 133, m 155	paragraphs	National Chiao Tung University
G2	f 131, m 118	paragraphs	National Chiao Tung University
G3	f 134, m 120	paragraphs	National Chiao Tung University
G4	f 124, m 118	paragraphs	National Chiao Tung University
G5	f 99, m 107	paragraphs	National Chiao Tung University
G6	f 101, m 155	paragraphs	National Cheng Kung University
G7	f 116, m 101	paragraphs	National Cheng Kung University
G8	f 104, m 118	paragraphs	National Cheng Kung University
G9	f 132, m 148	paragraphs	National Cheng Kung University
G10	f 129, m 101	paragraphs	National Cheng Kung University
G11	f 3084, m 3425	paragraphs	National Taiwan University

Each speech data file is in MAT file format. The file name is given as

Mnnxxxxx.VAT,

where M -- database code,
nn --recording site
01 – National Chiao Tung University
02 – National Heng Kung University
03 – National Taiwan University
xxxxx -- sequence number,
VAT -- file extension name dedicated to MAT speech file

2. Programs

Speech File Editing Program (VEDITOR)

This program runs under a Windows system of Chinese version. It requires the screen display size of 1024 x 768. It provides a tool for users to edit speech files. The file header parameters, as well as the waveform, are displayed on the screen. The user can edit the file header, modify the waveform, and playback the edited voice in an interactive mode.

File conversion (VATWAV)

This program is for converting an MAT speech data file into *.WAV format. Then the facilities for *.WAV files can be applied to the recorded speech data.

3. File Structure

Instruction

- Mandarin-syllable-table-v3.doc
- TCC-300Edu-brief.doc
- TCC-300-Description.doc (In Chinese)
- TCC-300-Speech file format.doc
- TCC-300-Tab file format.doc
- TCC-300Edu-Title-page

Programs

- Veditor-5.exe
- Point2.tab
- Syl_imf.tab
- Vatwav.exe
- Struct.txt

In CD#1~CD#7

- f_newGm (female speech of Group m)
- m_newGm (male speech of Group m)

In CD # 8 (Information Disk)

- Data, Nctu, Ncku, Ntu