

PHONE TALK

Detector

Overview

Phone Talk Detector (PhTD) is used for detection of speech intervals. PhTD is modification of voice activity detector (VAD) and speech-end point detector (SEPD).

Such detector can be used in devices, where it is important to detect exactly fragments of speech signal. For instance, in telephone systems, when it is necessary to detect moment of the beginning of talk between speakers on telephone line and its duration.

Developed detector has presented itself in a good light on the background of external noises, channel distortion, pulsed and musical hindrances, appearing in the channel.

Phone Talk Detector can be effectively used:

- Wireless telephony systems;
- VOIP telephony;
- Voice messaging services (voice mail);
- Mobile phones or without "hands free" system;
- Call service centers;
- In other devices, where it is important to detect exactly fragments of speech signal.

Features

- High quality detection of speech intervals;
- Fast adaptation to changing of channel distortion and external noises;
- Operation with low SNR;
- Easy integration with target applications.

Signal requirement

- Signal format: PCM 16-bits;
- 8 kHz, ..., 32 kHz sampling rate.

Availability

- Float/Fixed-point C++ source code;
- DLL libraries for MS Windows;
- PC demo for MS Windows is available on request;
- Portability to any DSP, ARM or RISC platform.

GritTec laboratory specializes on research and development of the unique algorithms and technologies in the field of digital signal processing (DSP). GritTec's research is focused on speech enhancement & concealment, speech recognition, voice biometric, methods of adaptive filtration and other speech & audio technologies. All available off-the-shelf our DSP products and solutions can be plugged into the customer system.

Contacts

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