

VOICE ACTIVITY

Detector

Overview

Voice Activity Detector (VAD) is used for detection silence intervals.

Principle of functioning of detector is based on methods of adaptive filtrations, allowing tracing dynamically appearance of fragments of noise signal.

Depending on conditions of the channel, mips and quality detection, it's possible different realizations of variants Voice Activity detectors. It allows using them effectively on the background of broadband noises and channel distortion.

Such detectors can be effectively used in coders as well as in other applications (IP telephony, Call service centers), where it is important to reduce the rate of bit transmission and save processing resources during the temporary intervals to corresponding silence.

Features

- 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

Home Page: <http://www.grittec.com>
Contact us: sales@grittec.com