

ACOUSTIC CLIPPING

Detector

Overview

Acoustic Clipping Detector (ACD) is used for estimation degree of clipping signal, appearing because of the excess of maximum amplitude level of signal.

The restrictions of the maximum level of signal amplitude can be added by mike or channel itself or both of them simultaneously.

Developed detector has presented itself in a good light:

- Under testing with different types of electricity mikes, in which clipping signal can appear because of absence or insufficiently efficient wind protection;
- Under detection of clipping signal, appearing at excess of maximum possible level of amplitude;
- Under detection of tone or impulse signals and hindrances (Acoustic Shock Detection), for instance, Ring Tones, DTMF and Fax/Modem Tones.

Acoustic Clipping Detector can be effectively used in devices IP telephony, Call service centers, where it's necessary constantly monitoring of the incoming clipping signal (acoustic shocks).

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 sampling rate.

Availability

- Float-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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