GRITTEC'S SAMPLE RATE CONVERTER

Speech and audio signals

Overview

GritTec's sample rate converter is technology used for changing sampling rate in speech and audio signals. Principle of functioning algorithm is based on methods of interpolation.

Applications

- With IVR systems such as text to speech (TTS) systems;

- With solutions of VoIP telephony such as audio chats;

- Professional audio applications, such as audio-media players, streaming digital radio;

- With audio-video recorder devices;

Features

- High sound quality with fixed point C code optimization;

- Supports sampling rates: 6 kHz, 8 kHz, 11.025 kHz, 16 kHz, 22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz and 96 kHz;

- Support dual-channel signals;

- Full compatible with most audio-speech codecs;

- Easy integration with target applications.

Signal requirement

- Signal format: 16-bits linear;

- 6 kHz, ..., 96 kHz sampling rate;

- Channels: 2 (mono or stereo).

Availability

- PC demo for MS Windows x86/x64, Linux x86/x64 platforms;

- SDK for MS Windows x86/x64, Linux x85/x64 (C++ fixed point code) is available on request;

- Customization resources if required;

- Portability to any DSP or ARM platforms.

GritTec Laboratory (GritTec Ltd.) specializes on research and development of algorithms and technologies in the field of speech and audio processing. GritTec's research is focused on speech enhancement, speech concealment, voice biometric, speech recognition, speech synthesis and other speech and audio technologies.

Contacts