

DSP ALGORITHMS

FOR AUDIO & VIDEO PROCESSING

AUDIOALGORITHMS offers a large suite of cross-platform, plug'n'play audio & video processing algorithms for easy integration into communication applications where audio & video quality plays a critical role.

Our algorithms are offered as stand alone products or bundled up in an SDK with an easy to use API depending on your requirements. Our algorithms have been carefully designed and tweaked for optimal platforms on a number of platforms. For some platforms further optimization might be needed in which case our experienced team of signal processing engineers will help you acquire your goal.

Our noise suppression and echo cancellation algorithms are among the most popular DSP algorithms we offer. Our clients often come to use after they have tried our competitors' products. Basic echo cancellation is easy to implement. The complexity, however, is to make it work in highly complex environments where the theoretic assumptions which the AEC relies on breaks down. That's where we come in. Our signal processing engineers have years of experience in solving these complex problems and that is the core reason why our clients prefer us as their partner in developing communication technologies.

Our signal processing lab has years of experience in all phases of algorithm development – from design, proof of concept, implementation to porting, test and optimization of the final source code. By working with us, you will have access to a vast and up-to-date knowledge base and some of the best signal processing engineers. Some of the areas we work in are:

- Telecommunications
- Acoustic Simulations and Modeling
- Active Noise Control
- Adaptive Algorithms & Applications
- Algorithm Design & Development
- Assembly Optimization
- Audio & Video Coding & Processing
- Control Systems
- Digital Signal Processing
- Spatialization and 3D Audio
- System identification
- Neural Networks & Artificial Intelligence
- Pattern Recognition

Supported Platforms

Android, Windows, Linux, iOS, OSX

Audio Algorithms

Acoustic Echo Cancellation
Noise Suppression
Automatic Gain Control
Adaptive Jitter Buffer
Audio Equalizer
Digital Filters
Audio Resampler
Voice Detector
Speaker Recognizer
Speech Recognizer
Automatic Speech Translator
Voice Morpher
Encoders/Decoders
Beamformer
Tone Generator
Tone Detector
DTMF Tone Generator
DTMF Detector

Video Algorithms

Face Detector
Object Tracker
Encoders/Decoders
Object Classifier

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