



Acoustic Echo Cancellation Software

Headquarters

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Features:

- Full duplex conversation
- Adaptive filter
- Double-talk controller
- Residual error suppressor
- Complies with G.167 specifications
- Supports up to 256 ms tail length at 8k sampling rate
- Convergence rate >25 dB/s
- Single-talk attenuation >45dB
- Double-talk attenuation >35dB
- Supports microphone array

Description

Li Creative Technologies (LcT), Inc. has developed acoustic echo cancellation (AEC) software designed to cancel acoustic feedback between a loudspeaker and a microphone in a distance talking communication system for full-duplex hands-free communication. Our AEC software has the following features:

- Adaptive filter: automatically adjusts filter coefficients to simulate the echo path. Uses both time and frequency domain techniques to satisfy real-time requirements.
- Robust double-talk controller: for avoiding filter coefficient divergence.
- Residual error suppressor: guarantees echo is suppressed while the target speech signal is unaltered.
- Supports microphone array and noise reduction: LcT's microphone array and noise reduction software can be applied to suppress background noise and enhance the speech signal.

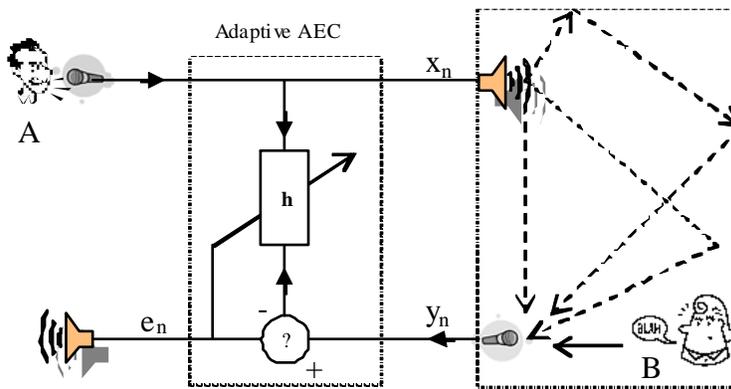


Figure 1. Illustration of acoustic echo cancellation (AEC). Received signal y_n contains echo while the processed signal e_n is echo free.

Software Solution

LcT can provide a low cost, easy-to-implement software solution for AEC on any speech communication device. Our software can be implemented on any hardware platform for many different applications. We provide the highest quality support to ensure that the software is successfully implemented.

Our Company

Li Creative Technologies (LcT), Inc., located in Florham Park, New Jersey, USA, is an innovator in audio technology for immersive unified communications. Established in 2002 by former Bell Labs scientists, LcT develops microphone arrays, echo cancellation, noise reduction, and 3D audio for the conferencing, music, movie, smart TV, and video game markets. Our technologies support video conferencing and speech recognition in noisy environments, enable 3D audio recording on mobile devices, and provide a user-configurable 3D-sound listening experience. We license and sell our technology, software, and product design. LcT is a winner of the 2011 International CES Innovations Design and Engineering Award.

Product demos

www.licreative.com/demos