

**Optimization of Adaptive Filter Tap Settings for Subband
Acoustic Echo Cancellers in Teleconferencing**

Abstract:

5 A subband acoustic echo canceller for a telecommunications teleconferencing room is equipped with subband adaptive filters and filter taps associated with said subbands. A data store is provided containing a weight list for controlling allocation of the filter taps among the subbands. An optimum tap profile as determined by the weights is a composite of room acoustic impulse response and weighting adjustments
10 based on one or more measures of perceived human acoustic sensitivity experienced by far-end users. An active periodic adjustment of the weights responsive to detection of sibilant energy in the incoming path further improves echo cancellation. Active measurement and updating of the room acoustic impulse response provides further refinement.

This Sheet Has Been Replaced

