



An Efficient Double Talk Detection Algorithm Based on Normalized Least Mean Square Method

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Abstract—Stereophonic acoustic echo cancellation has generated much interest in recent years due to the nonuniqueness and misalignment problems that are caused by the strong interchannel signal coherence. In this paper, we introduce a novel adaptive filtering approach to reduce interchannel coherence which is based on a selective-tap updating procedure. This tap-selection technique is then applied to the normalized least-mean-square, affine projection and recursive least squares algorithms for stereophonic acoustic echo cancellation. Simulation results for the proposed algorithms have shown a significant improvement in convergence rate compared with existing techniques. In this way we can be able to overcome the drawbacks and has elaborated furtherly.

Keywords-component; acoustic double talk; NLMS

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