

A noise-estimation algorithm for highly non-stationary environments

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Abstract

A noise-estimation algorithm is proposed for highly non-stationary noise environments. The noise estimate is updated by averaging the noisy speech power spectrum using time and frequency dependent smoothing factors, which are adjusted based on signal-presence probability in individual frequency bins. Signal presence is determined by computing the ratio of the noisy speech power spectrum to its local minimum, which is updated continuously by averaging past values of the noisy speech power spectra with a look-ahead factor. The local minimum estimation algorithm adapts very quickly to highly non-stationary noise environments. This was confirmed with formal listening tests which indicated that the proposed noise-estimation algorithm when integrated in speech enhancement was preferred over other noise-estimation algorithms. © 2005 Elsevier B.V. All rights reserved.

Keywords: Speech enhancement; Noise estimation; Non-stationary noise

1. Introduction

In most speech-enhancement algorithms, it is assumed that an estimate of the noise spectrum is available. Such an estimate is critical for the performance of speech-enhancement algorithms as it is needed, for instance, to evaluate the Wiener filter in the Wiener algorithms (Lim and Oppenheim, 1978) or to estimate the a priori SNR in the MMSE algorithms (Ephraim and Malah, 1984) or to estimate the noise covariance matrix in the subspace algorithms (Ephraim and Van Trees, 1993). The

noise estimate can have a major impact on the quality of the enhanced signal. If the noise estimate is too low, annoying residual noise will be audible, while if the noise estimate is too high, speech will be distorted resulting possibly in intelligibility loss. The simplest approach is to estimate and update the noise spectrum during the silent (e.g., during pauses) segments of the signal using a voice-activity detection (VAD) algorithm (e.g., Sohn and Kim, 1999). Although such an approach might work satisfactorily in stationary noise (e.g., white noise), it will not work well in more realistic environments (e.g., in a restaurant) where the spectral characteristics of the noise might be changing constantly. Hence there is a need to update the noise spectrum continuously over time and this can be done using noise-estimation algorithms.

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