

DAGA 2016 - Abstract

Applications for Time-synchronized Noise Compensation (TNC)

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A new method for a very efficient noise compensation facilitating speech quality analysis in presence of simulated background was introduced by Müsch et al. at the 2015 DAGA for analysis of In-Car Communication systems (ICC). If the noise playback system, used e.g. for hands-free (HFT) or ICC testing, and the speech quality measurement system are accurately synchronized in the time domain, the noise playback can be compensated by subtracting the noise signal (noise-only) from the speech and noise recording (denominated as Time-synchronized Noise Compensation (TNC)). This contribution discusses applications like the very accurate analysis of speech in presence of noise (relevant for HFT and ICC testing), the ability to measure Talker Echo Loudness Rating via real phones (instead of calculations based on standard sensitivities) or echo tests on 2-wire interfaces. Practical limits are demonstrated.

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