

Mobile Phone Performance Evaluation in Background Noise

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The performance of mobile terminals in the presence of background noise is crucial because this represents the typical use case today. This also motivates the development and conduction of appropriate speech quality tests. The D-value calculated from DELSM according to ITU-T Recommendation G.111 and the ANR in a similar way represent a one-dimensional score indicating the sensitivity differences of a terminal for speech and background noise and is typically used in telecommunication. A more advance method, SNRI is described in ITU-T Rec. G.160. A perceptually based method for determine the performance of terminals in background noise is described in ETSI EG 202 396-3. For objective performance evaluation all methods are compared for different narrowband and wideband mobile phones. All methods are analyzed with respect to their ability to predict quality parameters of speech in a noisy environment. The results are discussed and conclusions about the applicability and comparability of the methods are drawn.

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