

# Speech-Codec Detection by Spectral Harmonic-Plus-Noise Decomposition

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## ABSTRACT

This paper presents a new method for speech-codec detection providing reliable information about the perceived quality of a telephone link. Our specific decomposition of the shorttime speech-spectrum into a harmonic and a noise component reveals codec-specific distortions of the speech signal. In conjunction with an appropriate classifier, we thus can identify five different codecs with an error rate of less than 8%.