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Audio Bandwidth Extension Application Of
Bandwidth extension (BWE) refers to various methods that increase either the perceived or real frequency spectrum (bandwidth) of audio signals. Such frequency extension is desirable if at some point the frequency content of the audio signal has been reduced, as can happen for example during recording, transmission or reproduction.

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Bandwidth extension has been used in both speech and audio compression applications. The algorithms used in G.729.1 and Spectral Band Replication (SBR) are two of many examples of bandwidth extension algorithms currently in use. In these methods, the low band of the spectrum is encoded using an existing codec, whereas the high band is coarsely parameterized using fewer parameters.

Bandwidth extension - Wikipedia
Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design. Audio Bandwidth Extension. : Application of Psychoacoustics, Signal Processing and Loudspeaker Design. Author (s): Erik Larsen. Ronald M. Aarts. First published: 24 September 2004. Print ISBN: 9780470858646 | Online ISBN: 9780470858714 | DOI: 10.1002/0470858710.

Audio Bandwidth Extension | Wiley Online Books
Larsen (speech and hearing bioscience and technology, Massachusetts Institute of Technology) and Aarts, a researcher in the private sector in The Netherlands, examine applications of bandwidth extension (BWE) to music and speech, placing special emphasis on signal processing techniques.

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Audio Bandwidth Extension: Application of Psychoacoustics ...
In this paper, a new method for blind bandwidth extension of WB audio signals is proposed based on non-linear prediction and hidden Markov model (HMM). The high-frequency (HF) components in the band of 7–14 kHz are artificially restored only from the low-frequency information of the WB audio.

Blind bandwidth extension of audio signals based on non ...
Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker DesignNovember 2004.

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ity speech audio from a constrained conditioning representation, we extend this technology is to the problem of bandwidth extension (BWE) for speech, also known as audio super-resolution. While BWE can be taken to mean the extension of a band-

SPEECH BANDWIDTH EXTENSION WITH WAVENET Archit Gupta ...
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Abstract Modern audio coding technologies apply methods of bandwidth extension (BWE) to efficiently represent audio data at low bitrates. An established method is the well-known spectral band replication (SBR) that can provide the very high sound quality with imperceptible artifact. However, its bitrates and complexity are very high.

Low Bitrates Audio Bandwidth Extension Using a Deep Auto ...
Bandwidth extension is an effective technique for enhancing the quality of audio signals by reconstructing their high-frequency components. In this paper, a novel blind bandwidth extension method is proposed based on phase space reconstruction.

A blind bandwidth extension method for audio signals based ...
The advantage of bandwidth extension is that it allows much higher audio bandwidth at lower bit rates. Therefore, bandwidth extension has emerged as a popular tool for low bit rate audio coding. A detailed elaboration of individual techniques used in ABET can be found in our previous presentations,,.

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