Audio Bandwidth Extension Application Of Psychoacoustics Signal Processing And Loudspeaker Design 1

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Develops the theory and implementation of BWE applied to low-frequency sound reproduction, perceptually coded audio, speech and noise abatement; Includes a BWE patent overview; Audio Bandwidth Extension pulls together recent developments in to a single volume and presents a coherent framework to the reader. Such an approach will have instant appeal to engineers, specialists, researchers and postgraduate students in the fields of audio, signal processing and speech.

Audio Bandwidth Extension: Application of Psychoacoustics ...

Corpus ID: 107911089. Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design. @inproceedings{Larsen2004AudioBE, title={Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design}, author={Erik Larsen and Ronaldus Maria Aarts}, year={2004}} Erik Larsen, Ronaldus Maria Aarts.

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Audio Bandwidth Extension Application of Psychoacoustics, Signal Processing and Loudspeaker Design Erik Larsen MIT, Speech and Hearing Bioscience and Technology, USA Ronald M. Aarts Philips Research Laboratories, The Netherlands

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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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Among the methods to enhance the perceptual quality of the WB audio signals, blind bandwidth extension (BWE) is designed to analyze the statistical relationship between the low-frequency and...

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Audio Bandwidth Extension: Application of Psychoacoustics, Signal Processing and Loudspeaker Design By Erik Larsen, Ronald M. Aarts Bandwidth extension (BWE) refers to various methods that increase either the perceived or real frequency spectrum (bandwidth) of audio signals.

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Bandwidth extension of signal is defined as the deliberate process of expanding the frequency range of a signal in which it contains an appreciable and useful content, and/or the frequency range in which its effects are such. Its significant advancement in recent years has led to the technology being adopted commercially in several areas including psychacoustic bass enhancement of small loudspeakers and the high frequency enhancement of coded speech and audio. Bandwidth extension has been used i

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It develops the theory and implementation of BWE applied to low-frequency sound reproduction, perceptually coded audio, speech and noise abatement. It includes a BWE patent overview. "Audio Bandwidth Extension" pulls together recent developments in to a single volume and presents a coherent framework to the reader.

Audio Bandwidth Extension: Application of Psychoacoustics ...

A harmonic bandwidth extension method for audio codecs. Abstract:Today's efficient audio codecs for low bitrate application scenarios often rely on parametric coding of the upper frequency band portion of a signal while the lower frequency band portion of the same is conveyed by a waveform preserving coding method.

A harmonic bandwidth extension method for audio codecs ...

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 ...

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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 ...

This paper proposes a bandwidth extension method based on generative adversarial nets (GAN) for extending the bandwidth of an audio signal, to create a more natural sound. The method uses GAN as a generative model to fit the distribution of the MDCT coefficients of the audio signals in the high-frequency components.

AES E-Library » Bandwidth Extension Method Based on ...

Cited by. Year. Audio bandwidth extension: application of psychoacoustics, signal processing and loudspeaker design. E Larsen, RM Aarts. John Wiley & Sons. , 2005. 226. 2005. On the minimum audible...