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Parametric Interpolation of Gaps in Audio Signals

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ABSTRACT

The problem of interpolation of gaps in audio signals is important for the restoration of degraded recordings. Following the parametric approach over a sinusoidal model recently suggested in JAES by Lagrange et al., this paper proposes an extension to this interpolation algorithm by considering the interpolation of a noisy component in a “sinusoidal+noise” signal model. Additionally, a new interpolator for sinusoidal components is presented and evaluated. The new interpolation algorithm is suitable for a wider range of audio recordings than just the interpolation of a sinusoidal signal component.