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Parameterized Gammatone filterbanks for universal source separation



$$g(t) = \sqrt{2 \frac{(4\pi b)^{2p+1}}{2p!}} t^{p-1} e^{-2\pi bt} \cos(2\pi f_c t + \phi)$$



to ERB scale.

AUDITORY FILTERBANKS BENEFIT UNIVERSAL SOUND SOURCE SEPARATION

Underlying separation mechanisms

in frequency and time) automatically from nature sound sources !



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