Abstract

Fractional Fourier Transform function (FrFT) is a generalization of Fourier transforms (FT). Finite Impulse Response (FIR) filters are implemented based on Fractional Fourier transform domains, then modified filters characteristics some what tunable when compare with existing FT based FIR filters. So, in our proposals implementation is made on the FrFT FIR filters for different windows like Rectangle, Bartlett, Hamming, Hanning, and Kaiser, based on the adaptive algorithms, and the performance of the proposed filters is made by SNR values of the different obtain filters for given noisy sinusoidal inputs.

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