

# Adaptive Fractional Fourier Domain Filtering In Active

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~~Fourier transforms in image processing (Maths Relevance)~~

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Adaptive fractional Fourier domain filtering introduces significant improvements, since chirp-type signals are transformed into narrow-band sinusoidal signals and the non-stationary signal adaptation problem is converted to a stationary form. It is necessary to estimate the transformation order of FrFT successfully to improve the system performance.

~~Adaptive fractional Fourier domain filtering – ScienceDirect~~

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Adaptive Fractional Fourier Domain Filtering in Active Noise Control 3 where  $0 < |a| < 2$ , and the transformation kernel  $K_a(t, t')$  is  $K_a(t, t') = A e^{j(t^2 \cot(\alpha) - 2tt' \csc(\alpha) + t'^2 \cot(\alpha))}$  (3)  $A = e^{j \operatorname{sgn}(\sin(\alpha))/4 + j(\alpha)/2} / |\sin(\alpha)|^{1/2}$  with the transform angle  $\alpha = \pi/2$  (25). The first order FrFT is the ordinary Fourier

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The fractional Fourier domain adaptive filtering approaches have attracted a considerable amount of attention in recent years, which avoids the difficulties of adaptation in a rapidly time-varying...

~~Adaptive fractional Fourier domain filtering | Request PDF~~

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Adaptive Fractional Fourier Domain Filtering in Active Noise Control 3 where  $0 < |a| < 2$ , and the transformation kernel  $K_a(t, t')$  is  $K_a(t, t') = A e^{-j\pi(t^2 \cot(\alpha) - 2tt' \csc(\alpha) + t'^2 \cot(\alpha))}$  (3)

~~Adaptive Fractional Fourier Domain Filtering in Active ...~~

A novel adaptive filtering technique based on fractional Fourier domains to suppress non-stationary noise is investigated and analyzed in this paper. In case of adapting in fractional Fourier domains, the MSE of ANC systems improved at least twice compared to the time-domain adaptation.

~~Fractional Fourier domain LMS based adaptive filtering ...~~

In this method, the noisy signal is rotated in time-frequency plane to extract the signal in Fractional Fourier domain (FrFD). Two adaptive filters viz. least mean squares and normalized least mean squares are studied for FrFD based ANC approach.

~~Fractional Fourier Transform Based Adaptive Filtering ...~~

And the proposed adaptive fractional Fourier transform filter contains the following steps: 1) The primary input signal and the reference signal are transformed into the fractional Fourier domain by the FrFT with a fractional order; 2) The primary signal in the fractional transform domain is filtered by a series of filter with

~~Journal of Physics: Conference Series OPEN ACCESS Related ...~~

the components to be separated from each other in an appropriate fractional Fourier domain. On the other hand, based on the analysis of the EWT, a wavelet filter bank in the fractional Fourier domain is constructed adaptively to extract the fault feature components of rotor

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~~An adaptive method based on fractional empirical wavelet ...~~

Description. The Frequency-Domain Adaptive Filter block implements an adaptive finite impulse response (FIR) filter in the frequency domain using the fast block least mean squares (LMS) algorithm. The Filter length and the Block length parameters specify the filter length and the block length values the algorithm uses.

~~Frequency-Domain Adaptive Filter — MathWorks~~

In this paper, adaptive filters are applied (in the fractional Fourier transform domain – FRFd) for denoising lightning electric-field signals, both in high and low signal-to-noise-ratio (SNR) environments. These filters are based on the concentration energy property of the fractional Fourier transform (FRFT).

~~Denoising of measured lightning electric field signals ...~~

Let Radar Sonar and Navigation Attention has been focused on the moving target detection in heavy sea clutter. On the basis of detection model of moving target with fluctuant amplitudes, a novel adaptive algorithm in fractional Fourier transform (FRFT) domain is proposed, which combines statistic-based and FRFT-based detection method.

~~Adaptive fractional fourier transform based detection ...~~

The approach relies on the use of adaptive filters in the fractional Fourier transform domain with the optimised fractional transform order and the filter parameters, while the transform orders are selected when the signal have the highest energy gathering and the filter parameters are determined by evolutionary rules.

~~Gear fault signal detection based on an adaptive ...~~

The corresponding theorems for fractional Fourier transform (FRFT) are derived, which state that fractional convolution in the time domain is equivalent to a simple multiplication operation for FRFT and FT domain; this feature is more instrumental for the multiplicative filter model in FRFT domain. Moreover, the fractional convolution operation proposed in this paper can be expressed as ordinary convolution form in FT domain; such expression is particularly useful and easy to implement in ...

~~Fractional convolution, correlation theorem and its ...~~

The construction of sensing dictionary adopts the Pei type fast fractional Fourier decomposition method, which serves as an efficient basis for the LFM signal. The proposed adaptive iterative optimization algorithm can solve grid mismatch problems brought on by undetermined signals and quickly achieve higher detection precision.

~~Joint FrFT-FFT basis compressed sensing and adaptive ...~~

Fractional Fourier transform (FrFT) is the general case for the FT and is superior in chirp pulse compression using the

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optimum FrFT order. In this paper a matched filter is implemented for a chirp radar signal in the optimum FrFT domain.

~~Radar matched filtering using the Fractional Fourier ...~~

The response of the matched filter in fractional Fourier domain to chirp signals is analyzed, and the sidelobe suppression method for matched filtering in the fractional Fourier domain is considered. The theory introduced in this paper is validated by simulations.

~~Matched Filtering in Fractional Fourier Domain—IEEE ...~~

Attention has been focused on the moving target detection in heavy sea clutter. On the basis of detection model of moving target with fluctuant amplitudes, a novel adaptive algorithm in fractional Fourier transform (FRFT) domain is proposed, which combines statistic-based and FRFT-based detection method.

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