

Adaptive Fractional Fourier Domain Filtering In Active

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Adaptive Fractional Fourier Domain Filtering

The fractional Fourier domain adaptive filtering approach avoids the difficulties of adaptation in a rapidly time-varying signal environment by transforming these signals to fractional Fourier domains where the signals become slowly time-varying.

Adaptive fractional Fourier domain filtering - ScienceDirect

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 $\alpha = a/2$ (25). The first order FrFT is the ordinary Fourier

Adaptive Fractional Fourier Domain Filtering in Active ...

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

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 ...

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...

Fractional Fourier Transform Based Adaptive Filtering ...

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 ...

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

An adaptive method based on fractional empirical wavelet ...

Optical Engineering (OE) publishes peer-reviewed papers reporting on research, development, and applications of optics, photonics, and imaging science and engineering.

Discrete fractional Fourier transform computation by ...

Fourier domain, whose maximum in the spatial domain indicates the detection location and confidence. $\hat{k}^x z$ denotes the kernel correlation operation between the current appearance model x and the image patch z in the Fourier domain. \odot denotes the element-wise product. KCFDPT utilizes EdgeBoxes [10] to assign the back-

CORRELATION FILTER TRACKING WITH ADAPTIVE PROPOSAL ...

1. Introduction. In recent years, the fractional Fourier analysis based on fractional Fourier transform, introduced by Namias, and the time-frequency representations have been applied in different areas such as optics, signal processing and quantum mechanics, In the signals processing area, filtering in fractional domains has been used in watermarking, radar applications ...

A time-variant filtering approach for non-stationary ...

The coprime discrete Fourier transform (DFT) filter banks provide an effective scheme of spectral sensing for wide-sense stationary (WSS) signals in case that the ...

Sensing Fractional Power Spectrum of Nonstationary Signals ...

The computer program of claim 15, wherein the repeated reduced rank adaptive filtering is performed using a correlations subtraction architecture of a multistage Wiener filter (CSA-MWF) in the fractional Fourier transformation (FrFT) domain. 21. The computer program of claim 20, wherein the CSA-MWF computes the D scalar weights w_j , $j=1, 2, \dots$

INTERFERENCE SUPPRESSION USING REPEATED REDUCED RANK ...

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 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.

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Block diagram of the frequency-domain adaptive matched filter (FDAMF). The simulation signal generator is shown in the left parts of Figure 4 , in which the BP represents a bandpass filter. The target signal $s(t)$ is an LFM signal with a starting frequency of 10 kHz, a bandwidth of 10 kHz, and a duration time of 30 ms.

A Frequency-Domain Adaptive Matched Filter for Active ...

First, we analyze conception and character of FRFT (Fractional Fourier Transform), and the results shows that Chirp signal has energy concentration character in FRFT domain. Then, an adaptive filtering method is introduced in FRFT domain, and a test is done for separating Chirp signal from AWGN by the filtering method.

An Adaptive Filtering Method for Chirp Signal Based on ...

In this paper, fractional convolution and correlation structures are proposed. 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.

Fractional convolution, correlation theorem and its ...

Fractional Fourier transform applied to spatial filtering in the Fresnel domain S. Granieri , 0. Trabocchi, E.E. Sicre Cenrro de Investigaciones Opticas (CIOp), CC. 124, (1900) LQ P&a, Argentina Received 5 December 1994; revised version received 22 February 1995 Abstract The fractional Fourier transform can be optically defined through a ...

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