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Fractional Fourier transform - Wikipedia

To verify the performance of the JDCS-AIO algorithm, comparisons with traditional matched filtering (MF) and fractional Fourier transform compressed sensing (FrFT-CS) methods are presented by changing the ISRs, and these experimental results are shown in

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Figure 8, where the results of the JDCS-AIO algorithm is after two iterations.

Infrared maritime target detection using the high order ...

A new adaptive beamforming technique is presented here based on the numerical selection of the fractional

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order. The new method maximizes the fractional domain spectral kurtosis and optimum fractional Fourier domain cyclostationarity of the non-stationary linear chirp signal.

Adaptive fractional Fourier domain filtering - ScienceDirect

In [10], an adaptive fractional Fourier

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domain filtering scheme in the presence of linear frequency modulated type noise was considered. ...

Adaptive time-varying filter for linear FM signal in ...

Frequency domain adaptive filtering can be performed by Fourier transforming the input-signal vector and weighting

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the contents of each frequency bin.

Adaptive fractional Fourier domain filtering

Adaptive fractional Fourier domain filtering introduces significant improvements, since chirp-type signals are transformed into narrow-band sinusoidal signals and the non-stationary

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(PDF) A novel adaptive filtering for LFM signal in FRFT domain

Sultan Aldırmaz and Lütfiye Durak-Ata (March 2nd 2012). Adaptive Fractional Fourier Domain Filtering in Active Noise Control, Noise Control, Reduction and Cancellation Solutions in Engineering,

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Daniela Siano, IntechOpen, DOI:
10.5772/26973. Available from: Sultan
Aldırmaz and Lütfiye Durak ...

An adaptive method based on fractional empirical wavelet ...

In mathematics, in the area of harmonic analysis, the fractional Fourier transform (FRFT) is a family of linear

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transformations generalizing the Fourier transform. It can be thought of as the Fourier transform to the n -th power, where n need not be an integer — thus, it can transform a function to any intermediate domain between time and frequency.

Adaptive fractional Fourier domain

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Adaptive Fractional Fourier Domain
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estimation of chirp-type signals FrFT
converts time-varying chirp-type signals
into sinusoidals at appropriate
transform orders. Thus it is crucial to
estimate the instantaneous frequency
(IF) value of the chirp components

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Adaptive Fractional Fourier Filter | Think India Journal

A novel adaptive filtering scheme based on fractional Fourier transform (FrFT) is introduced and characterized. As a generalization of the ordinary Fourier transform, FrFT is a powerful analysis

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tool to describe signals with chirp-type components.

An adaptive method based on fractional empirical wavelet ...

In this paper, an adaptive filter method for Chirp signal in additional white Gaussian noise (AWGN) is studied. First, we analyze conception and character of

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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 ...

(PDF) Adaptive Fractional Fourier Domain Filtering in ...

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Abstract. In this article, we investigate the multiplicative filtering in the fractional Fourier transform (FRFT) domain based on the generalized convolution theorem which states that the convolution of two signals in time domain results in simple multiplication of their FRFTs in the FRFT domain.

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Adaptive Fractional Fourier Domain Filtering in Active ...

And the concept of adaptively choose the cut-of-frequencies for the band pass filter in every Fractional Fourier Domain (FRFD) has been introduced, depending upon the desired frequencies. The proposed filtering algorithm able to reduces the MSE by a factor of 2 for a

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single having one frequency component, and reduces the MSE by a factor of 21 for a signal having five frequency components.

Adaptive Fractional Fourier Domain Filtering

The fractional Fourier domain adaptive

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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.

Denoising of measured lightning electric field signals ...

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Adaptive Fractional Fourier Domain
Filtering in Active Noise Control 9 of the
gradient with a step-size μ by using the
filtered reference signal through the se
condary path model $s(n)$,

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The fractional Fourier transform (FRFT) is

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a generalization of the conventional Fourier transform (FT) and has been popular in applications such as optics, time-frequency analysis, filter design and denoising, signal compression, parameter estimation, music and biomedical signal processing, mechanical vibrations and pattern recognition , , . Compared with the FT,

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the FRFT is more flexible and suitable for processing non-stationary signals such as chirps and transients.

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

The fractional Fourier transform (FRFT) is the extension of the Fourier transform in the fractional order, and has richer

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spatial-frequency information. By combining it with the high order statistic filtering, a new ship detection method is proposed.

Adaptive Fractional Fourier Domain Filtering in Active ...

Adaptive time-varying filter for linear FM signal in fractional Fourier domain

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Abstract: The aim of the paper is to propose an adaptive method for filtering the linear FM signal embedded in white Gaussian noise.

An Adaptive Filtering Method for Chirp Signal Based on FRFT

On the other hand, based on the analysis of the EWT, a wavelet filter

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bank in the fractional Fourier domain is constructed adaptively to extract the fault feature components of rotor startup vibration signals.

Multiplicative filtering in the fractional Fourier domain ...

Adaptive segmentation of the signal fractional Fourier domainThe local

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maximum in the fractional Fourier domain is found and the boundaries are set in the horizontal coordinate of the minimum value between the adjacent maximum values. Then, the fractional Fourier domain is decomposed into N consecutive intervals.

Matched Filtering in Fractional

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proposed fractional Fourier domain adaptive filtering is more successful at suppressing noise compared to the time domain adaptation with the appropriate transform order.

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