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Stream processing in MATLAB Streaming techniques process continuous data from a captured signal or large file by dividing it into “frames” and fully processes each frame before the next one arrives Memory efficient Streaming algorithms in DSP System Toolbox provide Implicit data buffering, state management and indexing*

Spatial Signal Processing (Beamforming)

signal is revealed by Fourier analysis of the way sound excites different parts of the set of transducers. • Beamforming can be accomplished physically (shaping and moving a transducer), electrically (analog delay circuitry), or mathematically (digital signal processing).

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Practical Statistical Signal Processing Using MATLAB Training covers signal processing systems for radar, sonar, communications, speech, imaging and other applications based on state-of-the-art computer algorithms. These algorithms include important tasks such as data simulation, parameter estimation, filtering, interpolation, detection ...

Emitted sonar signal structure - MATLAB - MathWorks Australia

The object represents sonar signals from emitters, channels, and sensors. example. ... Processing gain associated with the signal waveform, specified as a scalar. Units are in dB. Example: 10. ... Run the

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command by entering it in the MATLAB Command Window.

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A Neural Network for Real-Time Signal Processing 253 3 PERFORMANCE The sonar version was tested against three sets of totally overlapping double chirp signals, the worst possible case for this algorithm. Where training and testing SNR's differed by a factor of anywhere from 1 to 8, 46 of 48 targets were correctly recognized.

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signal = sonarEmission(Name,Value) sets object properties specified by one or more Name,Value pair arguments. Name can also be a property name and Value is the corresponding value.Name must appear inside single quotes (").You can specify several name-value pair arguments in any order as Name1,Value1,...,NameN,ValueN.

Sound Analysis with Matlab - File Exchange - MATLAB Central

28/6/2020 · Discussions (14) The present code is a Matlab program for signal analysis of a given sound file. The analysis includes: 1) Options for: - signal detrending; - signal normalization. 2) Plotting of the: - signal in the time domain (oscillogram); - signal in the frequency domain (spectrum);

System Analysis and Signal Processing: With

emphasis on ...

electronically focused sidescan sonar, and 3-D imaging sonars. His teaching has been mainly in the fields of communication systems, radar and sonar, and digital signal processing. His work as Reader at the University of Sussex has involved investigating sonar and speech.

Types of sonar systems, LOFAR and DEMON analysis

The final stage of the target signal processing is the use of a short-time Fast Fourier Transform (it allows to observe signal peaks in the frequency domain). DEMON - type analysis algorithms (also sometimes referred to as “ pattern-recognition methods ”) are also implemented within the framework of acoustic signatures detection and classification.

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Signal processing library in Java? - Stack Overflow

The FIR filter will be the tricky part if you don't know anything about filter design. The easiest method would be to use Matlab to generate your FIR filter and then copy the coefficients into java. I suggest using `firpmord()` and `firpm()` from Matlab. Shoot for -30 to -50 dB attenuation

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Preprocessing and signal processing techniques on

genomic ...

The signal processing techniques can be applied to these binary data (2-bits). These steps are shown in Figure 1B and the corresponding Matlab script is shown in Figure 2. The first 100 samples of genomic data sequence from a patient (“EU338380v1.fa”) are plotted in Figure 3.

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