

Extraction of signals buried in noise Part II: Experimental results

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Abstract

In the second part of this series, we report application procedures and performances of “modified frequency extent denoising (MFED)” and “constant frequency extent denoising (CFED)”. It is shown that MFED and CFED work independently of the nature of noise (colored or white, Gaussian or not) and locations of its spectral extent. Denoising is achieved without using a priori information on the signal and any sort of averaging in the time or frequency domain. Moreover, CFED depicts better white denoising performances than the modified periodogram method. Denoising ability of CFED applies with much better performances than bispectrum estimation and wavelet denoising when spectra of experimental random processes (Doppler velocimetry signals) and colored noise (Gaussian or not) superimposed to them, overlap. It is shown that CFED is a powerful denoising and analysis tool of buried random signals occurring in real world situations.

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Keywords: Denoising; Extraction; Buried signals; Spectral analysis; Colored noise; White noise

1. Introduction

We proposed in [1] two extraction methods called, respectively “modified frequency extent denoising (MFED)” and “constant frequency extent denoising (CFED)”. Here, the frequency extent is the interval $[0, f_c]$ where f_c is the sampling frequency of the noisy continuous-time signal to be analyzed. The first procedure is based on modifying the sampling frequency. The second procedure is more suited for signals whose analysis frequency extent or sampling frequency cannot be modified. It was shown in [1] that these two methods work independently of,

- (1) the nature of noise (colored or white, Gaussian or not) and
- (2) locations of its spectral extent.

This extraction is achieved without,

- (3) using a priori information on signal to be extracted and,
- (4) any sort of averaging in the time or frequency domain.

The signal-to-noise ratio (SNR) of buried signals and standard-deviation of noisy spectral estimates are, respectively, enhanced and reduced by the same proportion.

In the second part of this series, we report application procedures and performances of the above methods for extraction of simulated signals and experimental random processes (Doppler velocimetry processes) buried in noise (colored and/or white, Gaussian or not). Comparative results with techniques based on Welch’s averaged, modified

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