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Higher Order Spectra Analysis: A Non-Linear Signal Processing Framework [Nikias, Chrysostomos, Petropulu, Athina P.] on Amazon.com. *FREE* shipping on qualifying offers. Higher Order Spectra Analysis: A Non-Linear Signal Processing Framework

Higher Order Spectra Analysis: A Non-Linear Signal ...
Higher-order spectra, or polyspectra, are defined as the multidimensional Fourier transforms of higher-order cumulants. Cumulants, or polyspectra, of Gaussian processes, of order > 2, are identically zero. Thus, in theory, HOS are high signal-to-noise-ratio domains, where system identification or signal reconstruction can be performed.

Higher-Order Spectra Analysis - Rutgers ECE
Higher Order Spectra Analysis: A Non-Linear Signal Processing Framework Chrysostomos Nikias, Northeastern University Athina P. Petropulu, Northeastern University

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Higher-order spectra, or polyspectra, are defined as the multidimensional Fourier transforms of higher-order cumulants. Cumulants, or polyspectra, of Gaussian processes, of order > 2, are identically zero. Thus, in theory, HOS are high signal-to-noise-ratio domains, where system identification or signal reconstruction can be performed.

Higher Order Spectra Analysis - Rutgers ECE
Analysis (HOSA) Toolbox provides comprehensive higher-order spectral analysis capabilities for signal processing applications. The toolbox is an excellent resource for the advanced researcher and the practicing engineer, as well as the novice student who wants to learn about concepts and algorithms in statistical signal processing. The Higher-Order Spectral Analysis Toolbox is a collection of M-files that

Higher-Order Spectral Analysis Toolbox
Higher-order spectra which are defined in terms of the higher-order moments or cumulants of a signal, contain this additional information. The Higher-Order Spectral Analysis (HOSA) Toolbox provides comprehensive higher-order spectral analysis capabilities for signal processing applications.

HOSA - Higher Order Spectral Analysis Toolbox - File ...
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A Review of Higher Order Statistics and Spectra ...
So, higher order spectral (HOS) analysis, which is more suitable for non-linear systems and is robust to noise, was used. An automated intelligent system for the identification of cardiac health is very useful in healthcare technology. In this work, we have extracted seven features from the heart rate signals using HOS and fed them to a support ...

Cardiac Health Diagnosis Using Higher Order Spectra and ...
Higher-Order Spectra Analysis: A Nonlinear Signal Processing Framework, C.L. Nikias and A.P. Petropulu, Prentice Hall Incorporated, Oppenheim Series in Signal Processing, 1993.

Publications - Rutgers University
Higher-order spectra (HOS) analysis is a valuable tool for the analysis of nonlinear aeroelastic systems.

Characterization of a 3DOF aeroelastic system with ...
The use of high order spectral analysis is justified in that with the one-dimensional analysis resulting from the Fourier Transform, there may not always be solid differences at the spectral level...

(PDF) Higher-Order Spectra Analysis-Based Diagnosis Method ...
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In addition, The HRV signal can be analyzed using different higher order spectra (HOS) (also known as polyspectra) that are spectral representations of higher order moments or cumulants of a signal (Nikias and Raghuveer 1987). Quantification of nonlinear coupling of physiological time series has been of considerable interest during recent years.

Comparison of higher order spectra in heart rate signals ...
As a result the bispectrum is particularly of use when the analyst wishes to detect quadratic (or other even powers of) nonlinearity. The next in the series of higher-order spectra is the fourth-order spectra, the trispectrum. The trispectrum is particularly useful when analysing a signal for cubic (or other odd powers of) nonlinearity.

Higher-order spectra for identification of nonlinear modal ...
ANALYSIS OF CARDIAC AND EPILEPTIC SIGNALS USING HIGHER ORDER SPECTRA by Chua Kuang Chua B.Eng (Hons), MSc (Dist) PhD Thesis Submitted In Partial Fulfilment of the Requirements for the Degree of Doctor of Philosophy at the Queensland University of Technology March 2010 Abstract The theory of nonlinear dyamic systems provides some new methods to handle complex systems Chaos theory offers new concepts, algorithms and methods for processing, enhancing and analyzing the measured signals In recent ...

Analysis of cardiac and epileptic signals using higher ...
Generalizations Bispectra fall in the category of higher-order spectra, or polyspectra and provide supplementary information to the power spectrum. The third order polyspectrum (bispectrum) is the easiest to compute, and hence the most popular. A statistic defined analogously is the bispectral coherency or bicoherence.

Bispectrum - Wikipedia
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