عنوان مقاله:

Generating optimal time-frequency distribution using image fusion method.

محل انتشار:

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خلاصه مقاله:

One of the oldest and most effective methods in signal analysis is time-frequency methods. Methods such as Short Term Fourier Transform (STFT), Wigner-Ville Distribution and Smoothed Wigner-Ville Distribution that each of them has been able to show the status of the signals. In this paiper,we considerd a signal of parallel chrips and have implemented the mentioned methods for it and obtain their frequency domain modulation images by using the MATLAB software and by using image fusion method, we combine the results of them and generate an optimal conversion at time and frequency and has the much better output in terms of noise and parasite compared to the results of the time -frequency methods mentioned. Finally, we have tried to prove quantitatively the results of this method using statistical methods and creating appropriate equations.

کلمات کلیدی:

STFT,wigner-ville,Smoothed wigner-ville,Image Fusion,

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