

## Correction to: Improved Eigenvalue Decomposition-Based Approach for Reducing Cross-Terms in Wigner–Ville Distribution

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### Correction to: Circuits Syst Signal Process <https://doi.org/10.1007/s00034-018-0846-0>

The original version of the article unfortunately contained few errors in reference citations and equations. This has been corrected with this erratum.

- In Sect. 1, the sentence “The time–frequency representation (TFR) finds applications in many areas like as communication [14], seismology [41], speech signal analysis and synthesis [6], biomedical engineering [24], and mechanical vibrational signal analysis [17,71].” should read as follows:  
“The time–frequency representation (TFR) finds applications in many areas such as communication [3], seismology [41], acoustic signal analysis [6], biomedical engineering [24], and induction motor and rotating machinery fault diagnosis [17,71].”
- In Sect. 1, the sentence “The short-time Fourier transform (STFT) computes the Fourier transform (FT) of windowed signal, which leads to fixed resolution in time–frequency domain [13,35].” should read as follows:  
“The short-time Fourier transform (STFT) computes the Fourier transform (FT) of windowed signal, which leads to fixed resolution in time–frequency domain [14,35].”

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The original article can be found online at <https://doi.org/10.1007/s00034-018-0846-0>.

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- In Sect. 2, the sentence “If FT of  $s(t)$  is represented by  $S(\Omega)$ , the representation of WVD in frequency domain can be given as follows [16]:” should read as follows: “If FT of  $s(t)$  is represented by  $S(\Omega)$ , the representation of WVD in frequency domain can be given as follows [16,35]:”
- Equation (2) should read as follows:

$$\text{WVD}_S(t, \Omega) = \frac{1}{2\pi} \int_{-\infty}^{+\infty} S\left(\Omega + \frac{\Omega'}{2}\right) S^*\left(\Omega - \frac{\Omega'}{2}\right) e^{+j\Omega't} d\Omega'$$

- Equation (6) should read as follows:

$$X_m[l] = A_{y(m)} \text{Fn}(V_{y(m)}) + A_{y(L-m+1)} \text{Fn}(V_{y(L-m+1)})$$