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A Structure for Representation of Localized Time-Frequency
Distributions in Presence of Noise

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Highlights

- This paper investigates the undesirable impact of noise on the TFDs.
- A three-step structure is presented for localization of TFDs at low SNRs.
- A separable kernel reduces the noise in the AF domain to improve the SNR in the TF plane.
- The proposed procedure determines regions as the auto-terms and then concentrates them into their centroids.
- It removes the noise while localizing the desired components.

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