## **Accepted Manuscript**

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

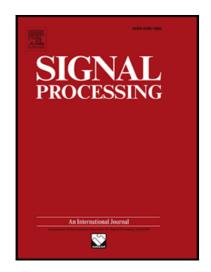
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#### ACCEPTED MANUSCRIPT

### 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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