

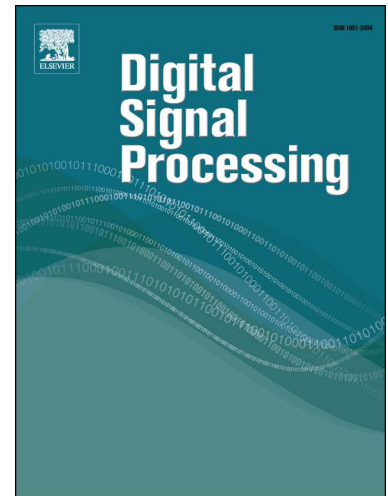
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Detection of power quality disturbances using an adaptive process noise covariance Kalman filter

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Graphical abstract

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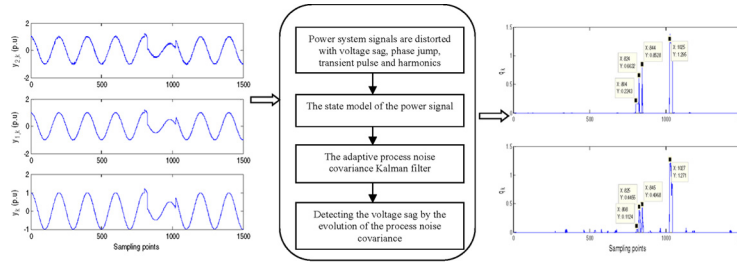


Fig. 1 The observed sinusoidal signals and the clean sinusoidal signal (y_1, y_2, y_3 denote the clean signal without noise and the observed signals disturbed with SNR values of 40 dB and 30 dB).

Fig. 2 Dynamic changes of the parameter q_k for the ANPCKF at 40 dB (top) and 30 dB (bottom) SNR's noises.

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