



Fig. 11.5. A Wavelet Tour of Signal Processing, 3<sup>rd</sup> ed. (a): Original signal. (b): Noisy signal (SNR = 13.1 db). (c): Estimation by a hard thresholding in a wavelet basis (Symmlet 4), with  $T = \bar{\sigma} \sqrt{2 \log_e N}$  (SNR = 23.3 db). (d): Soft thresholding calculated with Sure thresholds  $T_j$  adapted to each scale  $2^j$  (SNR = 24.5 db). (e): Translation invariant hard thresholding with  $T = \bar{\sigma} \sqrt{2 \log_e N}$  (SNR = 25.7 db). (f): Translation invariant soft thresholding with Sure thresholds (SNR = 25.6 db).