Fig. 12.13. A Wavelet Tour of Signal Processing, 3$^{\text{rd}}$ ed. (a): Signal synthesized with a sum of chirps, truncated sinusoids, short time transients and Diracs. The time-frequency images display the atoms selected by different adaptive time-frequency transforms. The darkness is proportional to the coefficient amplitude. (b): Gabor matching pursuit. Each dark blob is the Wigner-Ville distribution of a selected Gabor atom. (c): Heisenberg boxes of a best wavelet packet basis calculated with Daubechies 8 filter. (d): Wavelet packet matching pursuit. (e): Wavelet packet basis pursuit. (f): Wavelet packet orthogonal matching pursuit.