A Wavelet Tour of Signal Processing

Stéphane Mallat, Academic Press 1999 (2nd edition)

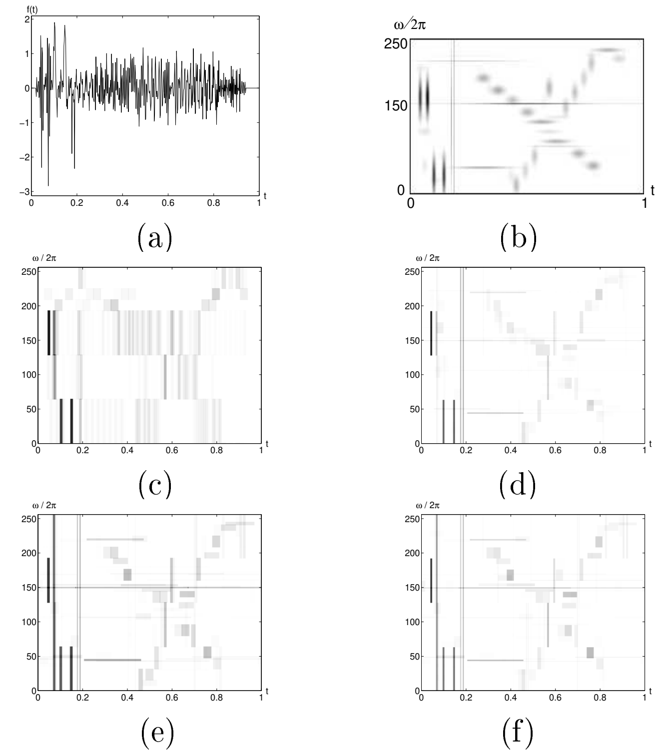

Figure 9.11: (a): Signal synthesized with a sum of chirps, truncated sinusoids, short time transients and Diracs. The time-frequency images display the atoms selected by different adaptive time-frequency transforms. The darkness is proportional to the coefficient amplitude. (b): Gabor matching pursuit. 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 basis pursuit. (e): Wavelet packet matching pursuit. (f): Wavelet packet orthogonal matching pursuit.