Fig. 12.9. A Wavelet Tour of Signal Processing, 3rd ed. (a): Squares of wavelet coefficients on which bandlets are computed. (b-d): Directional alpert wavelets $\tilde{\psi}_{i,l,m}$ of different length $2^i$ and width $2^i$. (b’-d’): Bandlet functions $\phi_p(x)$ computed from the directional wavelets above, and the wavelets $\psi^k_j(x)$ corresponding to the squares in (a).