



Fig. 12.9. A Wavelet Tour of Signal Processing, 3<sup>rd</sup> 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  $\psi_j^k(x)$  corresponding to the squares in (a).