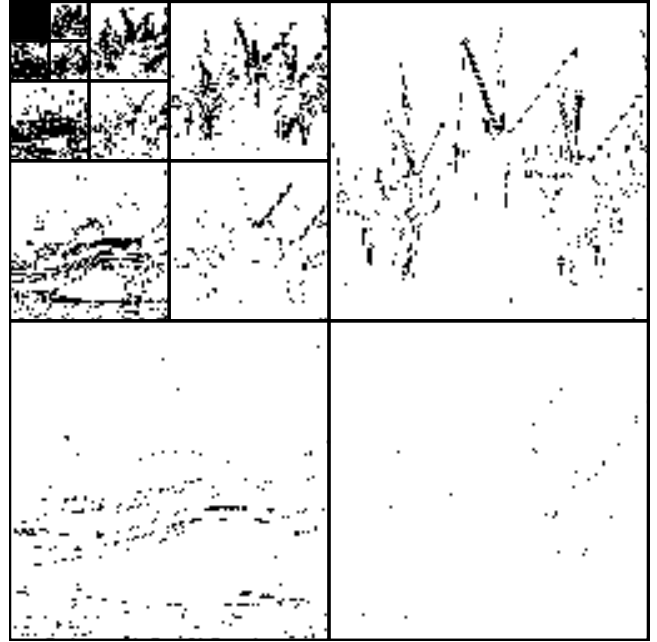(a)

(b)

(c)

(d)

Fig. 1.1. A Wavelet Tour of Signal Processing, 3rd ed. (a): Discrete image $f[n]$ of $N = 256^2$ pixels. (b): Array of N orthogonal wavelet coefficients $\langle f, \psi_{j,n}^k \rangle$ for $k = 1, 2, 3$ and 4 scales 2^j. Black points correspond to $|\langle f, \psi_{j,n}^k \rangle| > T$. (c): Linear approximation from the $N/16$ wavelet coefficients at the 3 largest scales. (d): Non-linear approximation from the $M = N/16$ wavelet coefficients of largest amplitude shown in (b).