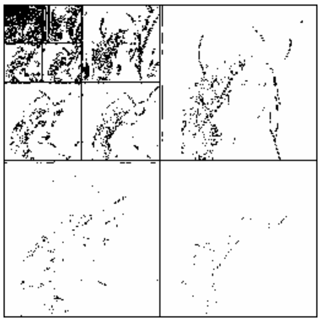
A Wavelet Tour of Signal Processing

Stéphane Mallat, Academic Press 1999 (2nd edition)

(a)

(b)



(c)

(d)

Figure 9.3: (a): Original Lena f of $N^2 = 256^2$ pixels. (b): Linear approximations f_M calculated from the $M = N^2/16$ Symmlet 4 wavelet coefficients at the largest scales: $\|f - f_M\|/\|f\| = 0.036$. (c): The positions of the $M = N^2/16$ largest amplitude wavelet coefficients are shown in black. (d): Non-linear approximation f_M calculated from the M largest amplitude wavelet coefficients: $\|f - f_M\|/\|f\| = 0.011$.