

Figure 1: Original image (500x323 pixel) in (a). Clustered image in (b) with FCM in 4 clusters, m=2.0, color space:  $L^*a^*b^*$ . Images from (c) to (f) have been clustered using SFCM in 4 clusters, with m=2.0, color space:  $L^*a^*b^*$  and spatial function h defined as 'likeliest cluster', while p (the membership weight), q (the spatial function weight) and r (the window radius) are varying.

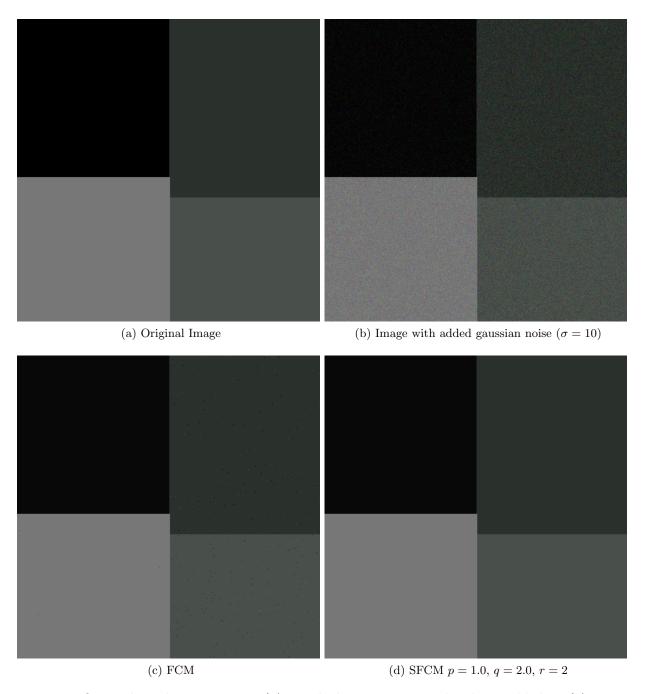


Figure 2: Original synthetic image in (a), to which gaussian noise has been added in (b). Clustered image in (c) by FCM in 4 clusters, m=2.0. Clustered image in (d) by SFCM in 4 clusters, m=2.0, spatial function h chosen as the likeliest cluster, with parameters p=1.0, q=2.0 ed r=2.

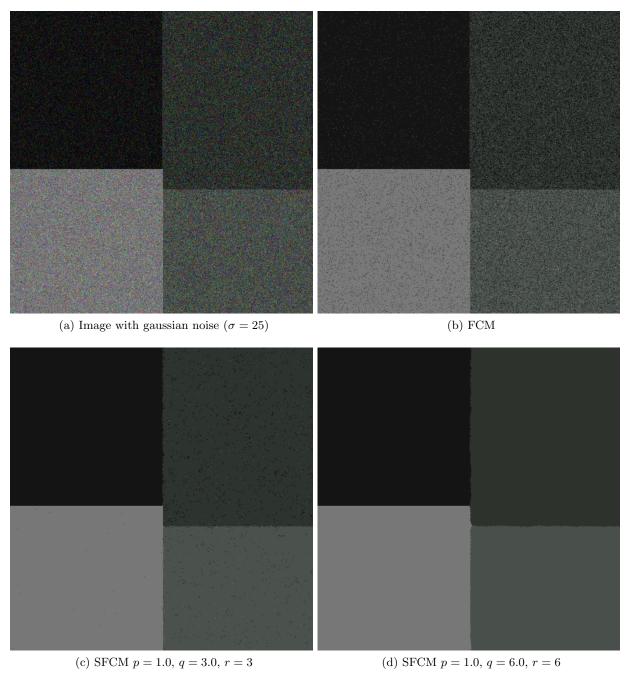


Figure 3: Original synthetic image in (a) from figure 2, to which gaussian noise has been added in (a). Clustered image in (b) by FCM in 4 clusters, m=2.0. Images (c) and (d) have been clustered by SFCM in 4 clusters, with m=2.0, spatial function h defined as the likeliest cluster, while p, q, r are varying.