

Box Filter - Kernel Size: 3x3  
MSE: 116.90, PSNR: 27.45 dB, FOM: 0.03

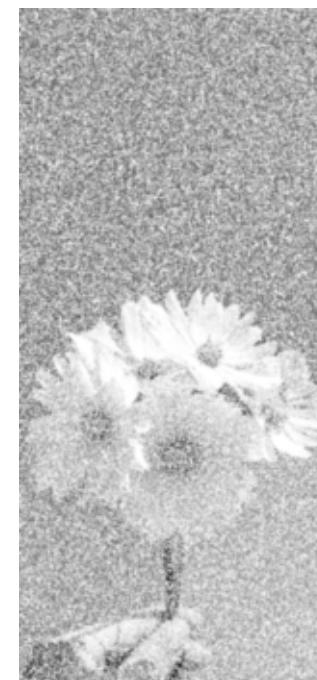
Original Image



Noisy Image



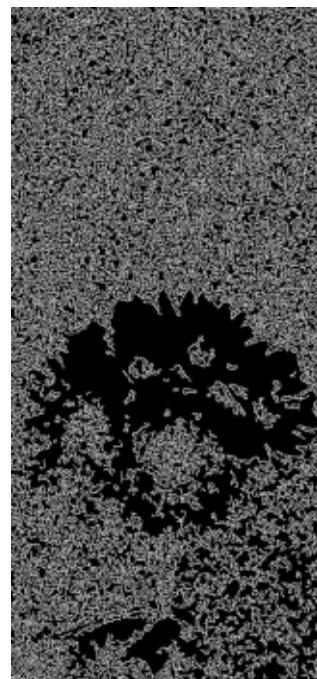
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 110.07, PSNR: 27.71 dB, FOM: 0.00

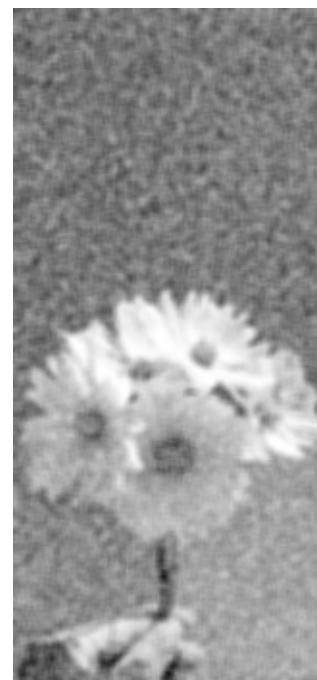
Original Image



Noisy Image



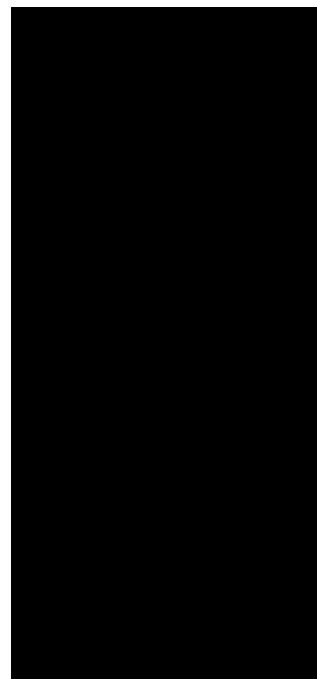
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 110.46, PSNR: 27.70 dB, FOM: 0.00

Original Image



Noisy Image



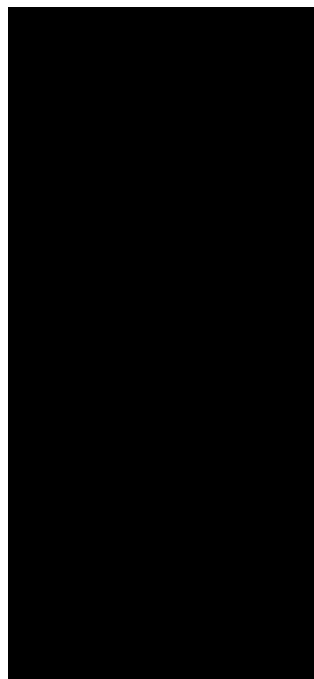
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 111.59, PSNR: 27.65 dB, FOM: 0.04

Original Image



Noisy Image



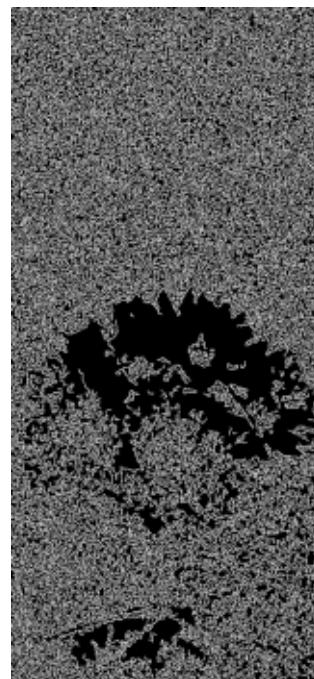
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

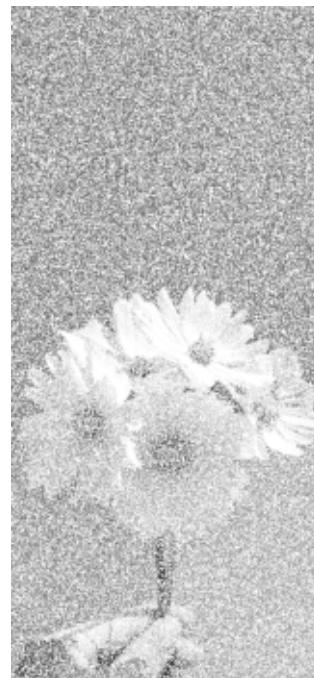


Gaussian Filter - Kernel Size: 9x9  
MSE: 111.82, PSNR: 27.65 dB, FOM: 0.04

Original Image



Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

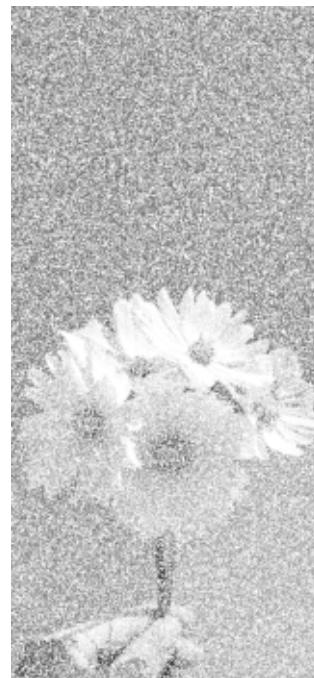


Gaussian Filter - Kernel Size: 15x15  
MSE: 109.85, PSNR: 27.72 dB, FOM: 0.00

Original Image



Noisy Image



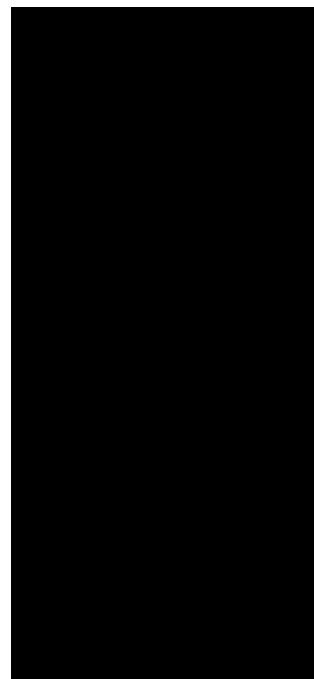
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 102.16, PSNR: 28.04 dB, FOM: 0.03

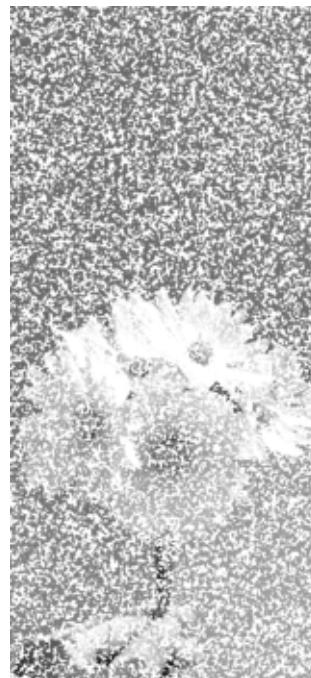
Original Image



Noisy Image



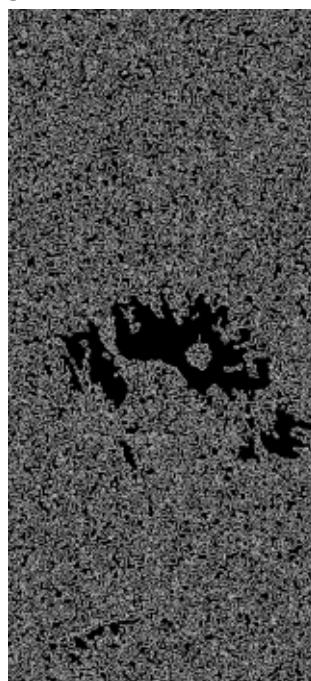
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 117.35, PSNR: 27.44 dB, FOM: 0.02

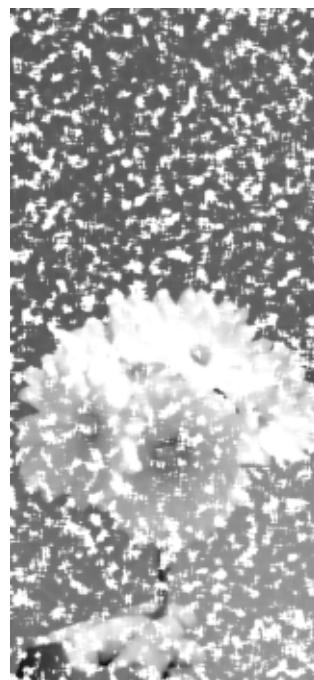
Original Image



Noisy Image



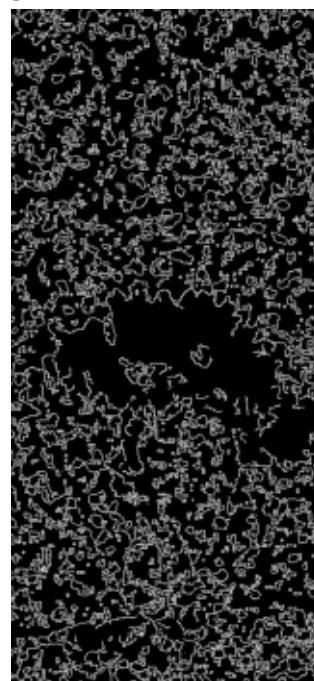
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 114.95, PSNR: 27.53 dB, FOM: 0.01

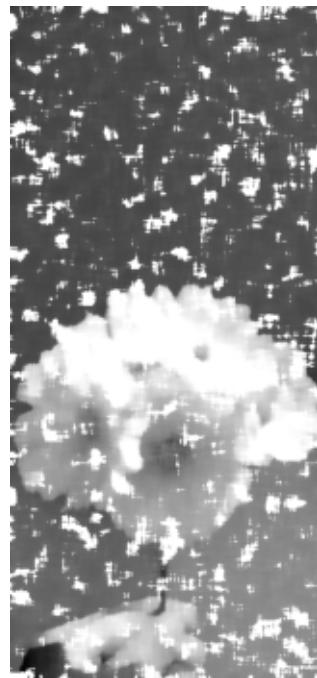
Original Image



Noisy Image



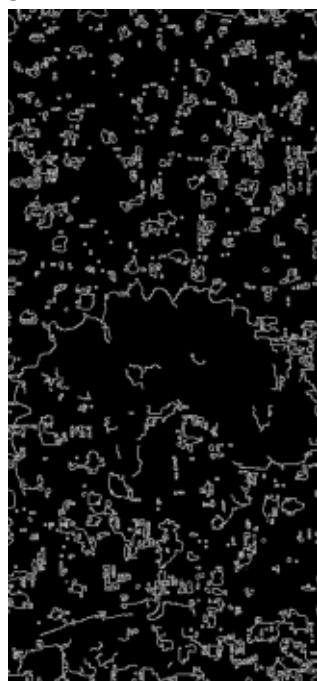
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 107.40, PSNR: 27.82 dB, FOM: 0.04

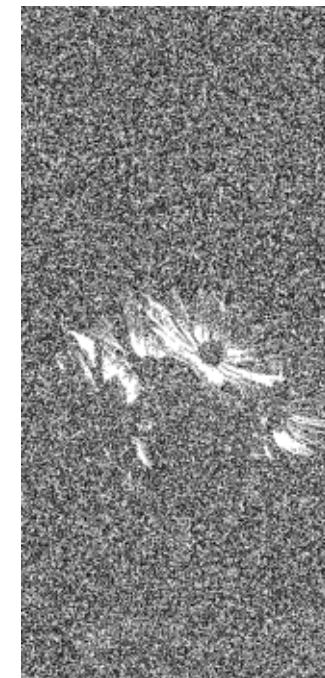
Original Image



Noisy Image



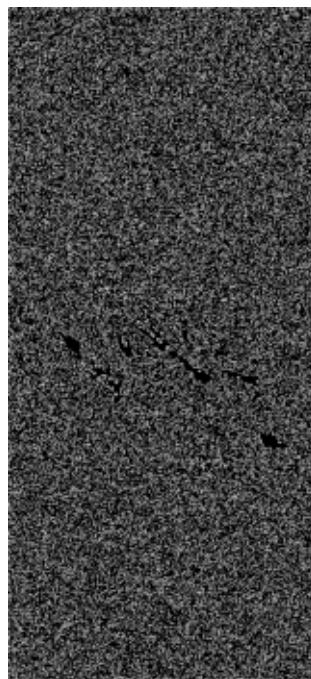
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 107.36, PSNR: 27.82 dB, FOM: 0.04

Original Image



Noisy Image



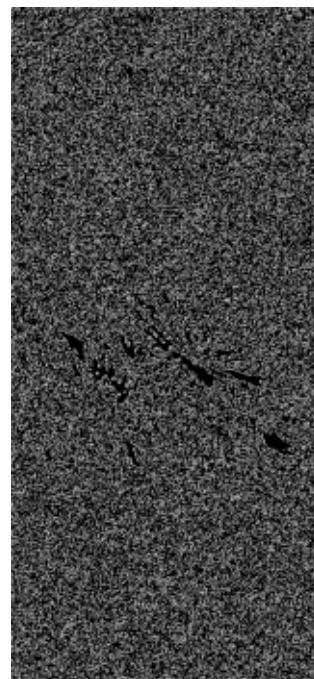
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 107.37, PSNR: 27.82 dB, FOM: 0.04

Original Image



Noisy Image



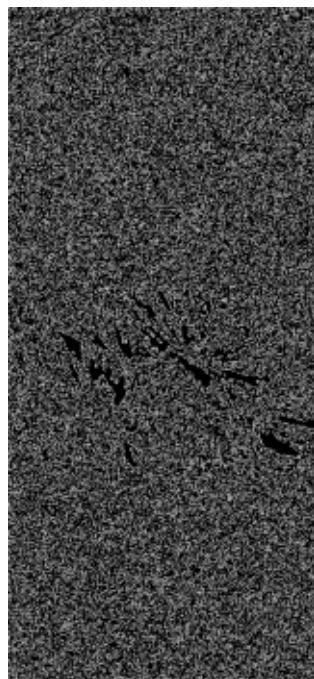
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 92.98, PSNR: 28.45 dB, FOM: 0.04

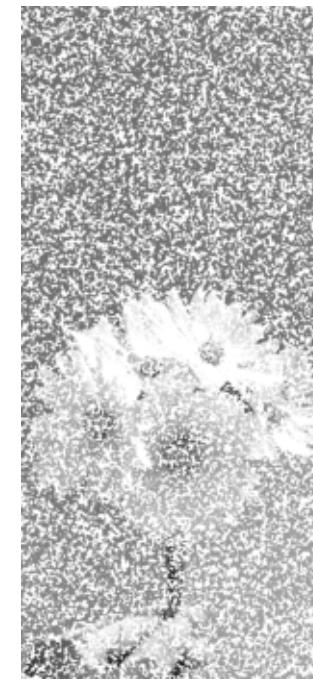
Original Image



Noisy Image



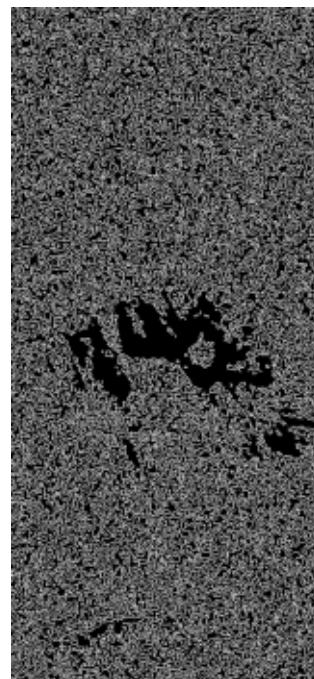
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

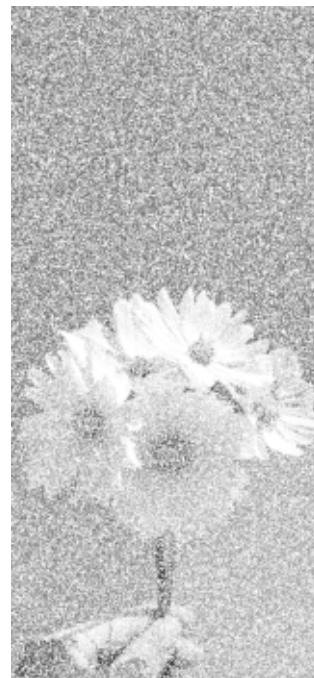


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 91.71, PSNR: 28.51 dB, FOM: 0.06

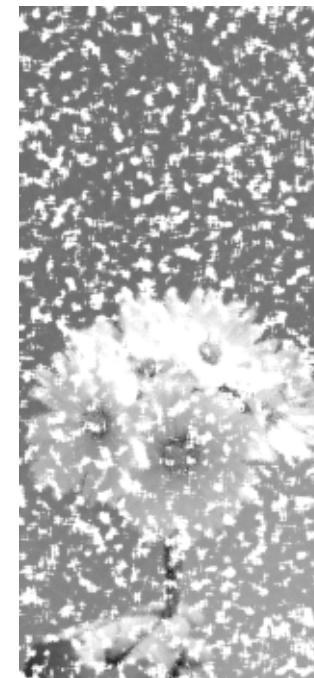
Original Image



Noisy Image



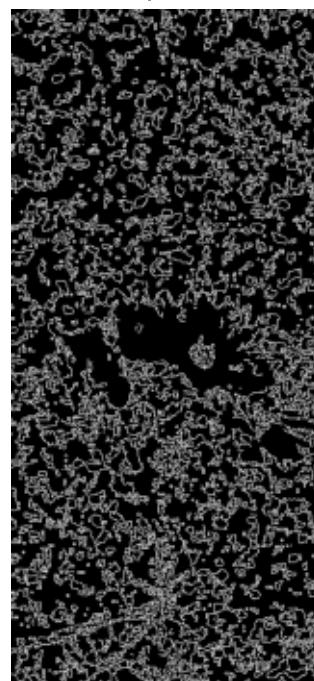
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

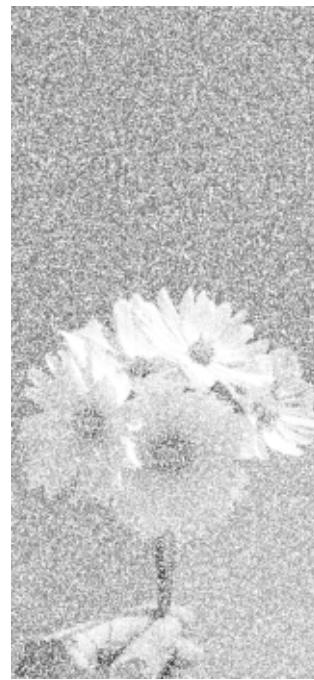


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 86.48, PSNR: 28.76 dB, FOM: 0.08

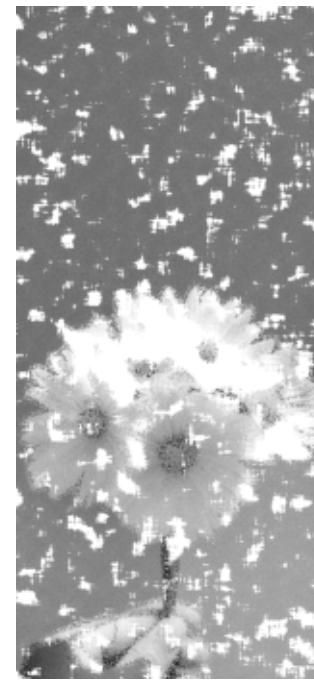
Original Image



Noisy Image



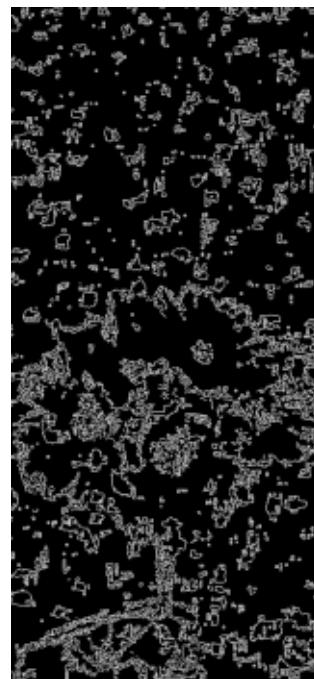
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 100.82, PSNR: 28.10 dB, FOM: 0.03

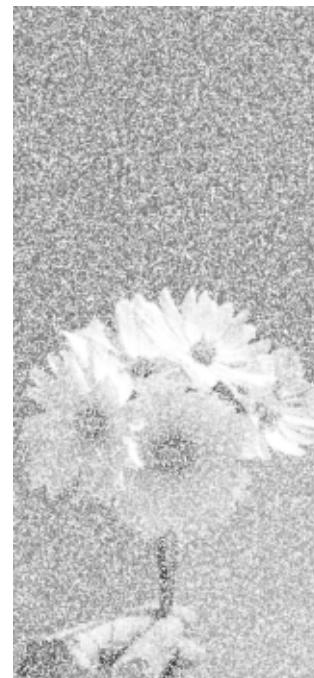
Original Image



Noisy Image



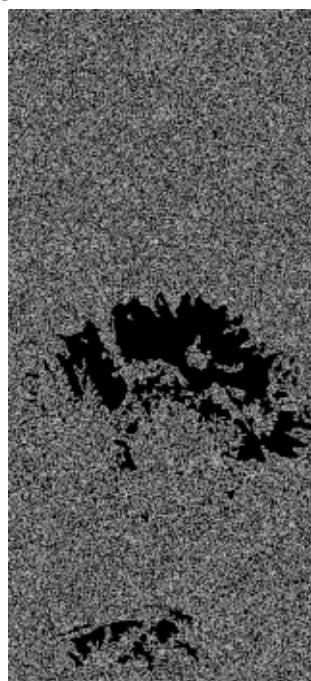
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

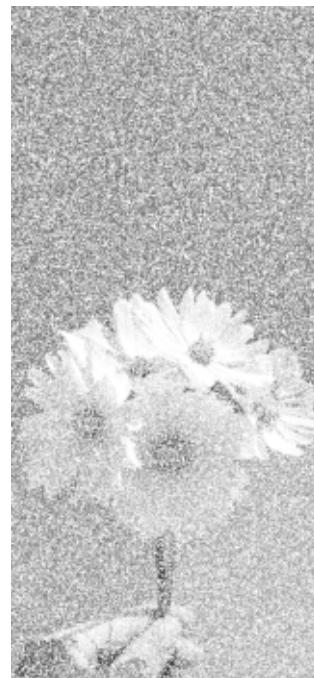


Bilateral Filter - Kernel Size: 9x9  
MSE: 97.16, PSNR: 28.26 dB, FOM: 0.03

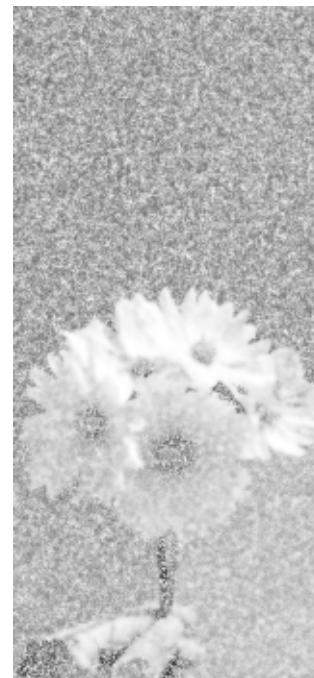
Original Image



Noisy Image



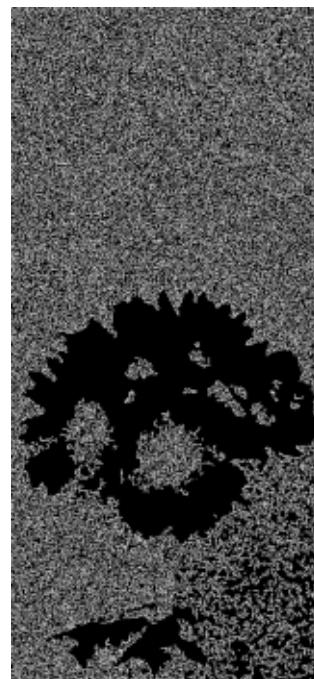
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

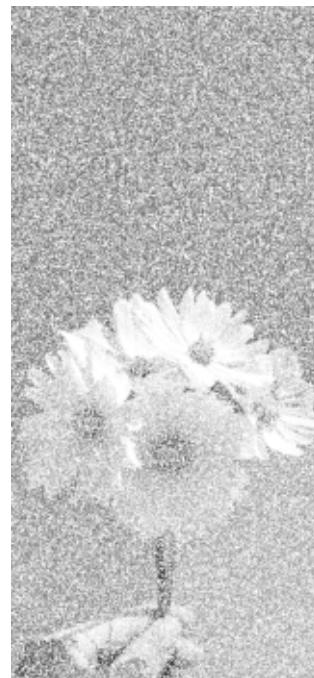


Bilateral Filter - Kernel Size: 15x15  
MSE: 96.06, PSNR: 28.31 dB, FOM: 0.03

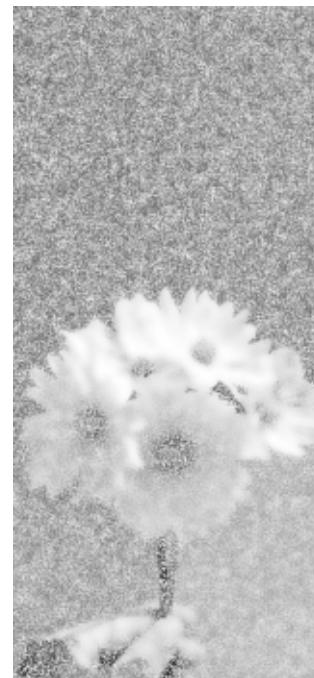
Original Image



Noisy Image



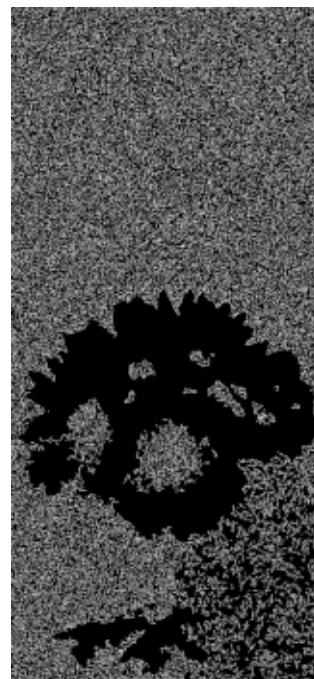
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

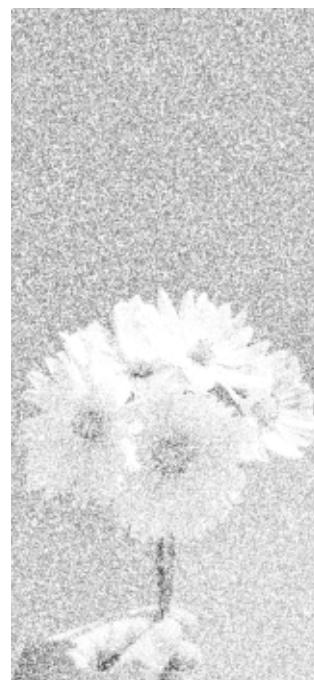


Box Filter - Kernel Size: 3x3  
MSE: 110.91, PSNR: 27.68 dB, FOM: 0.03

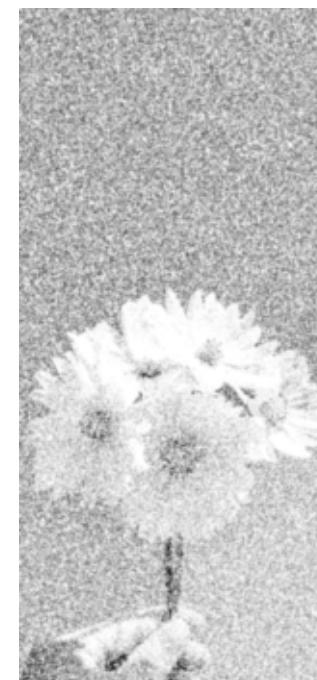
Original Image



Noisy Image



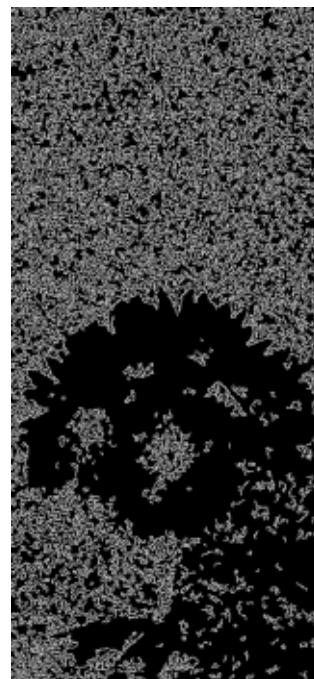
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

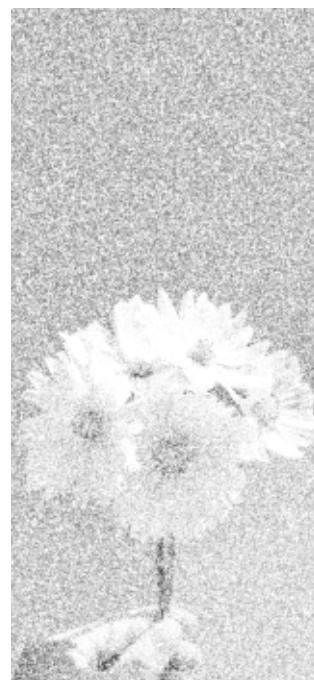


Box Filter - Kernel Size: 9x9  
MSE: 114.87, PSNR: 27.53 dB, FOM: 0.00

Original Image



Noisy Image



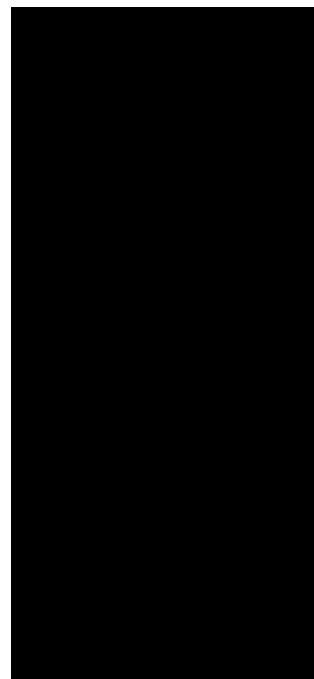
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

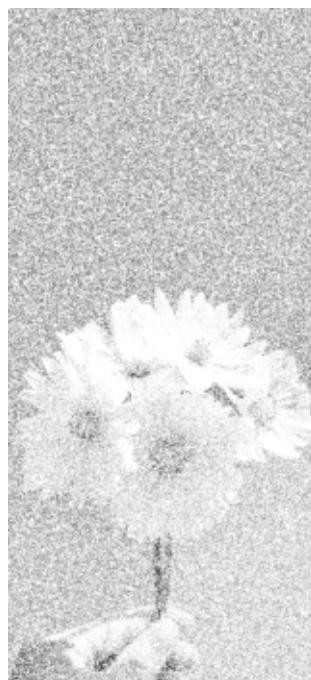


Box Filter - Kernel Size: 15x15  
MSE: 113.91, PSNR: 27.57 dB, FOM: 0.00

Original Image



Noisy Image



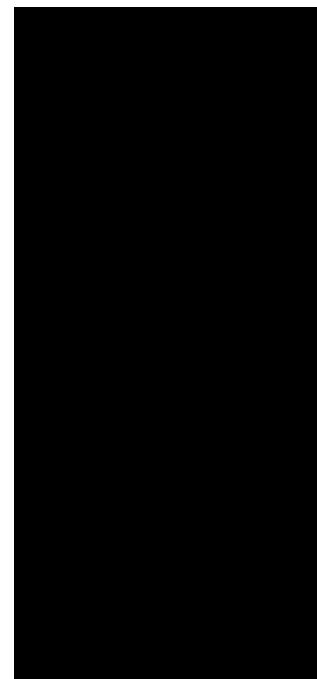
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

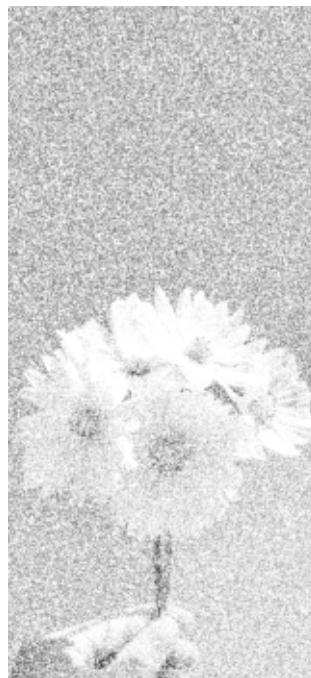


Gaussian Filter - Kernel Size: 3x3  
MSE: 110.08, PSNR: 27.71 dB, FOM: 0.03

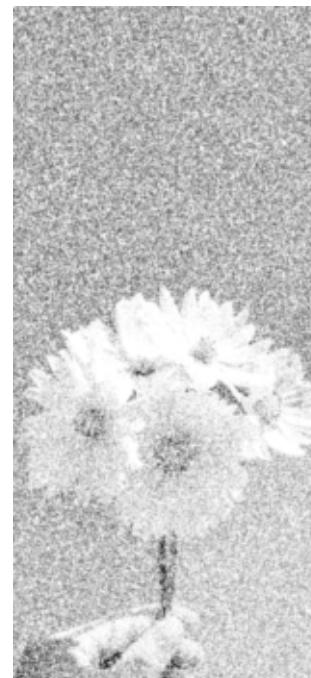
Original Image



Noisy Image



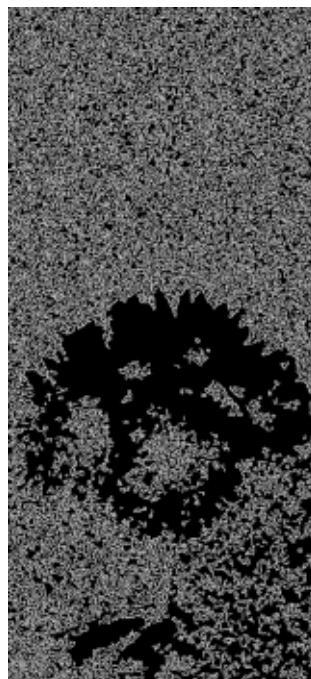
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

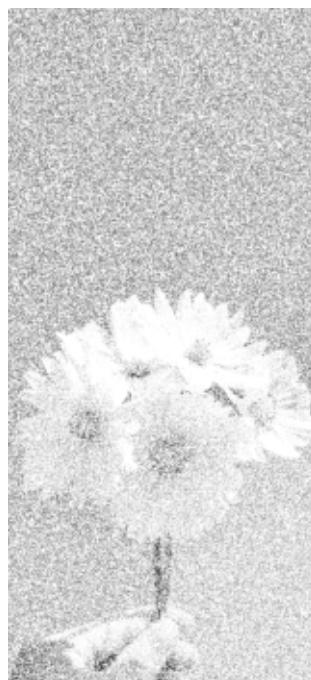


Gaussian Filter - Kernel Size: 9x9  
MSE: 114.83, PSNR: 27.53 dB, FOM: 0.02

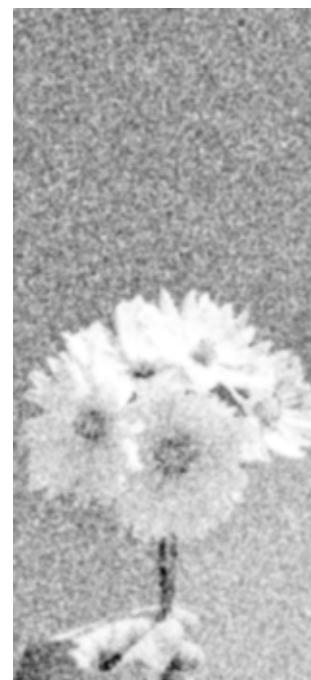
Original Image



Noisy Image



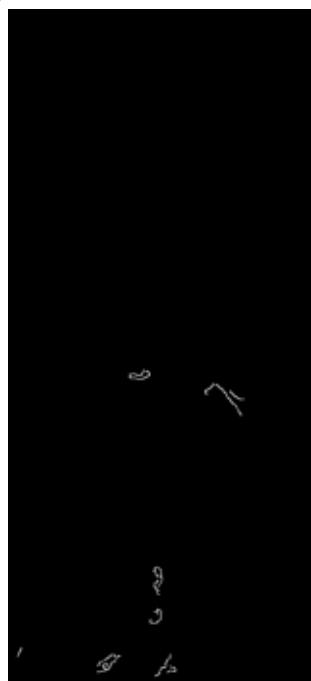
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

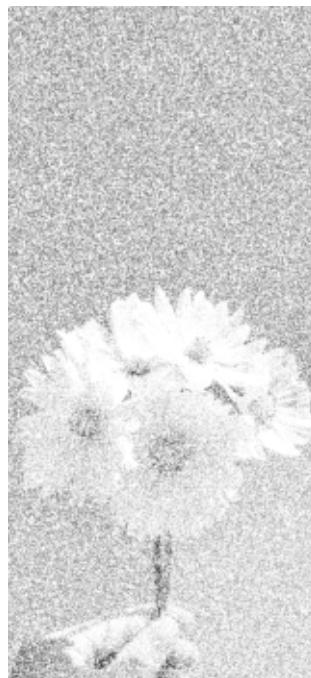


Gaussian Filter - Kernel Size: 15x15  
MSE: 114.65, PSNR: 27.54 dB, FOM: 0.00

Original Image



Noisy Image



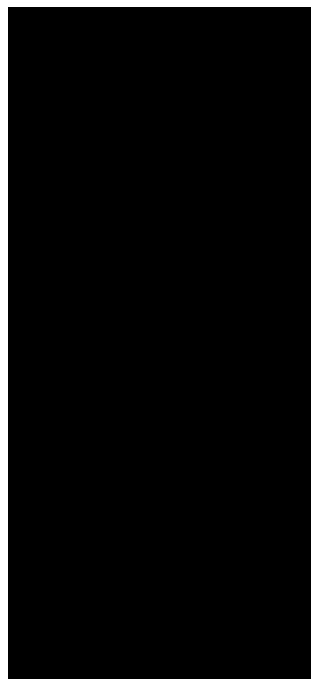
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

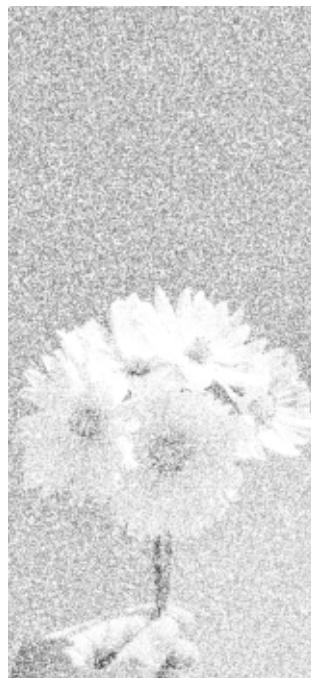


Median Filter - Kernel Size: 3x3  
MSE: 111.32, PSNR: 27.66 dB, FOM: 0.02

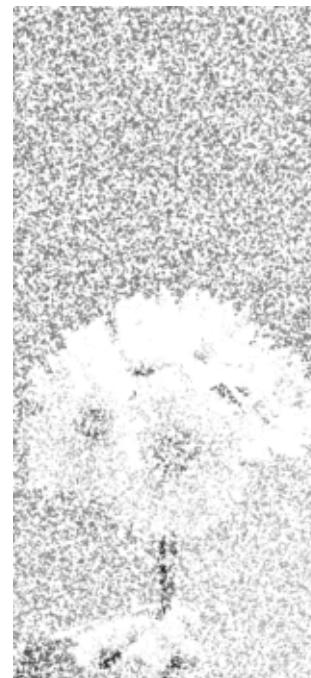
Original Image



Noisy Image



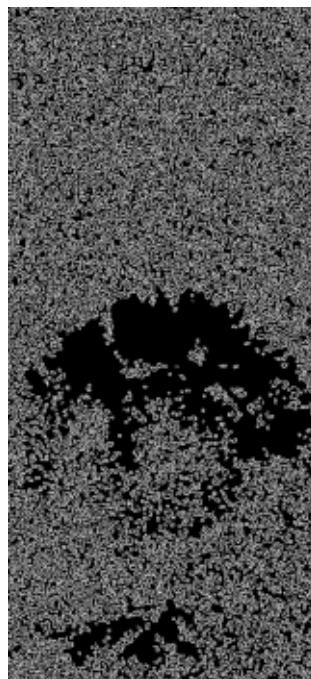
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

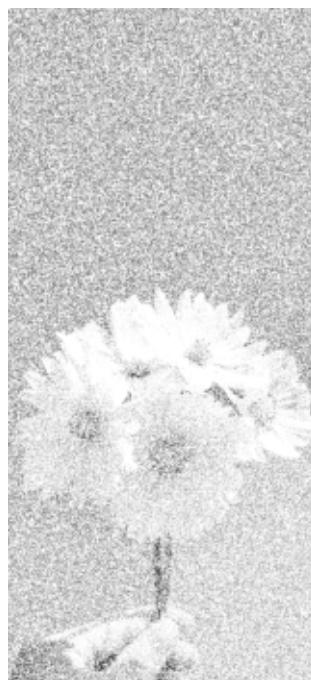


Median Filter - Kernel Size: 9x9  
MSE: 109.01, PSNR: 27.76 dB, FOM: 0.01

Original Image



Noisy Image



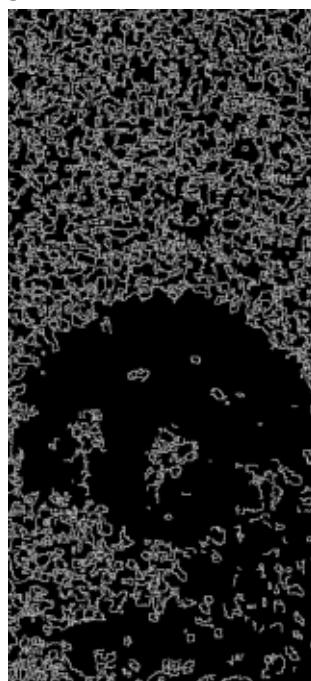
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

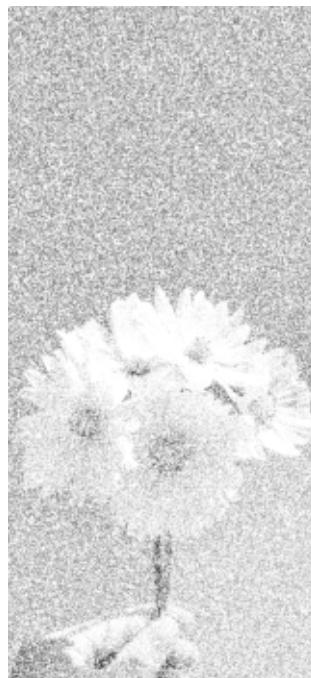


Median Filter - Kernel Size: 15x15  
MSE: 107.77, PSNR: 27.81 dB, FOM: 0.00

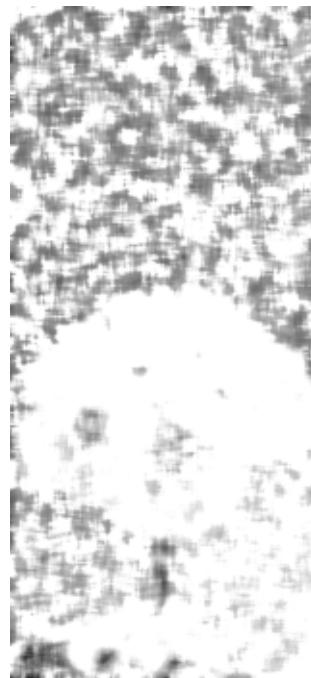
Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

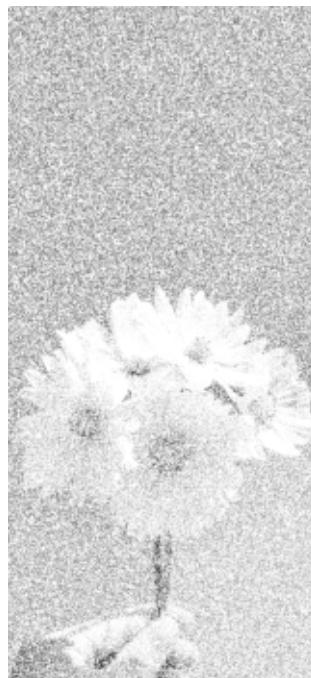


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 107.98, PSNR: 27.80 dB, FOM: 0.04

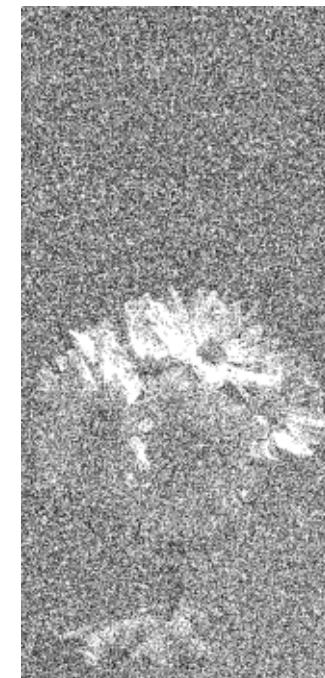
Original Image



Noisy Image



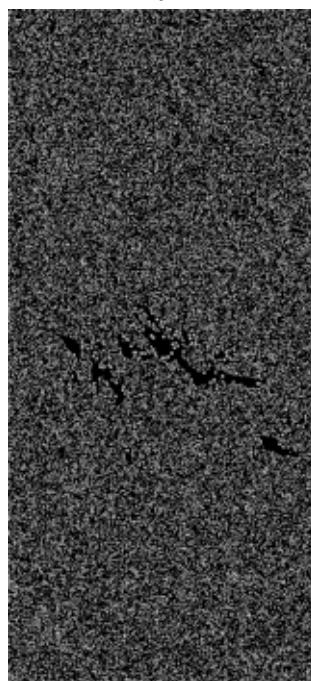
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

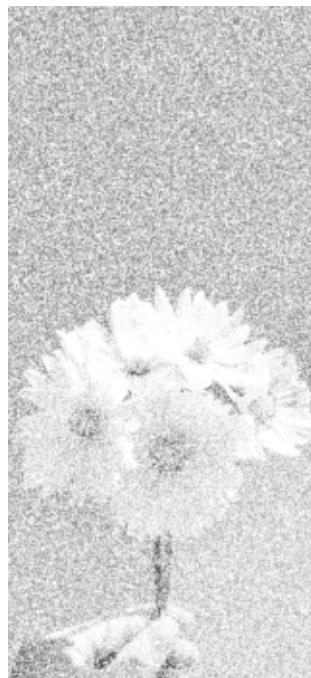


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 107.88, PSNR: 27.80 dB, FOM: 0.04

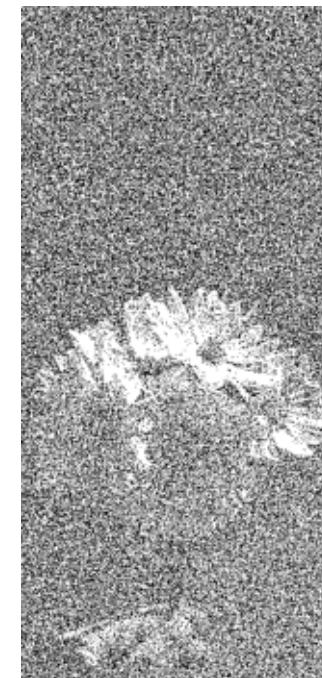
Original Image



Noisy Image



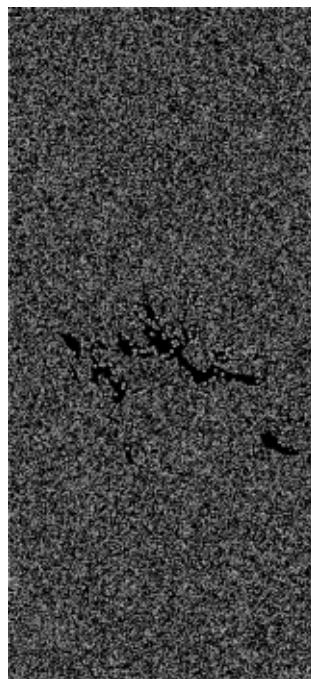
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

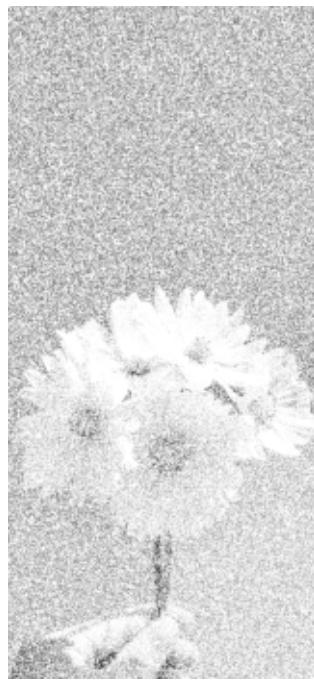


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 107.87, PSNR: 27.80 dB, FOM: 0.04

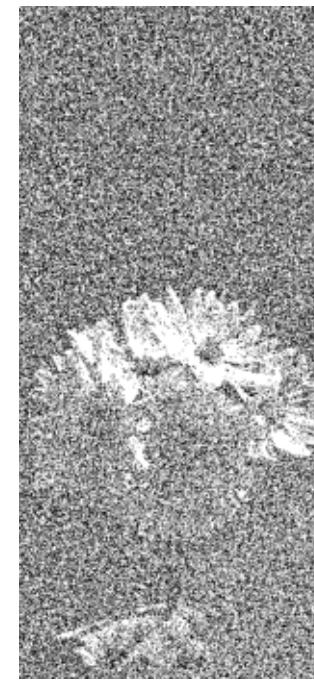
Original Image



Noisy Image



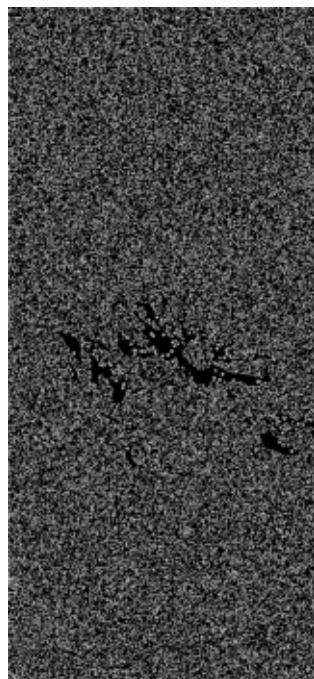
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

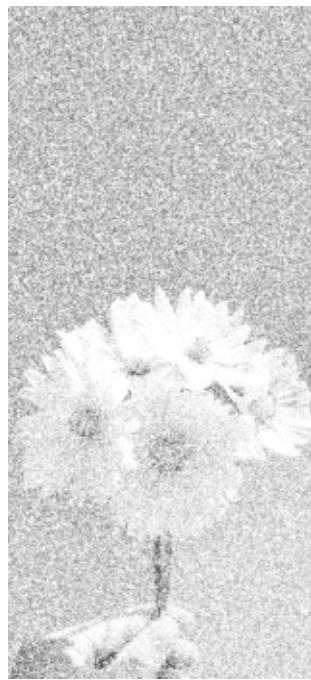


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 110.52, PSNR: 27.70 dB, FOM: 0.02

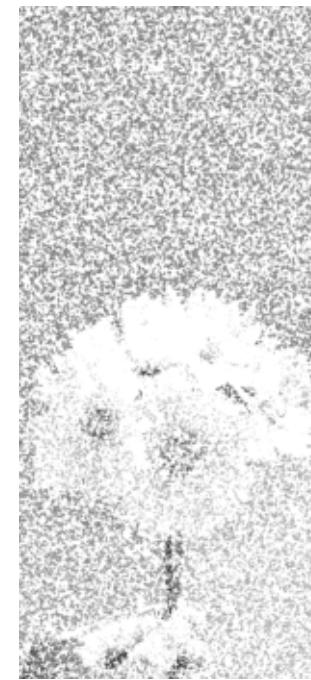
Original Image



Noisy Image



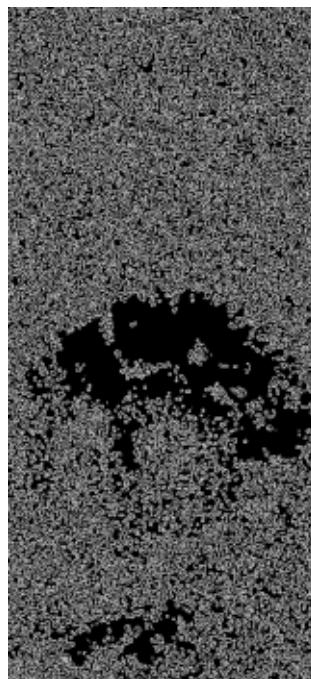
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

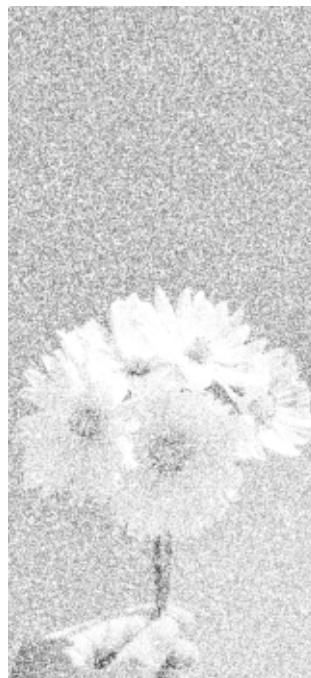


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 107.65, PSNR: 27.81 dB, FOM: 0.02

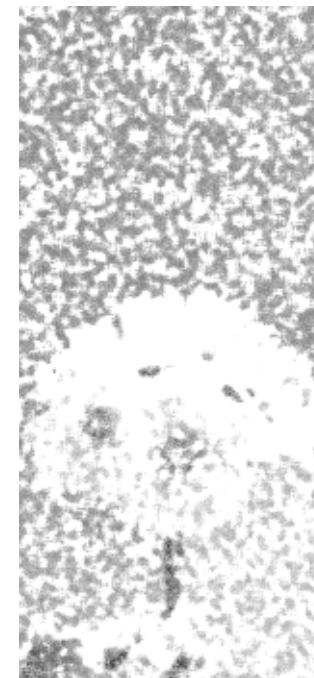
Original Image



Noisy Image



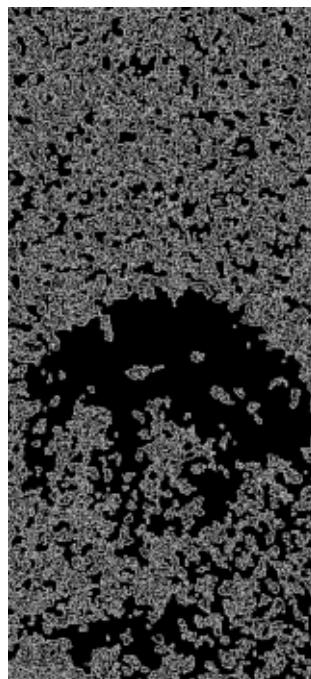
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

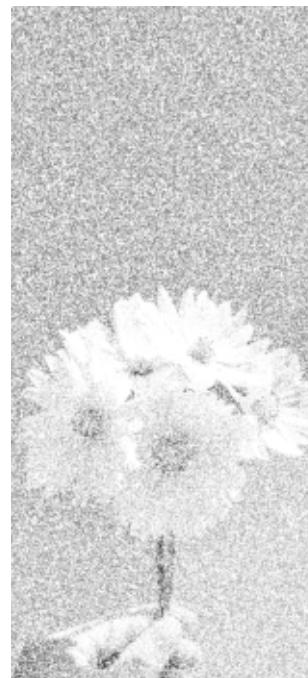


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 106.71, PSNR: 27.85 dB, FOM: 0.02

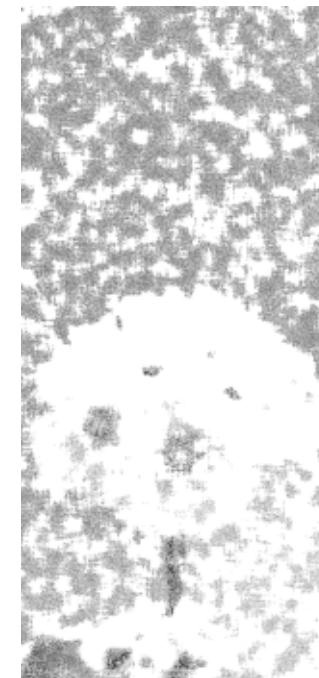
Original Image



Noisy Image



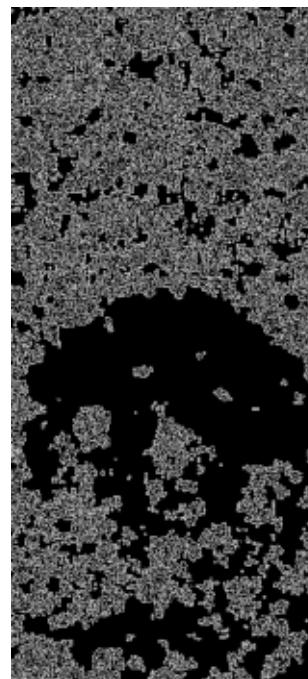
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

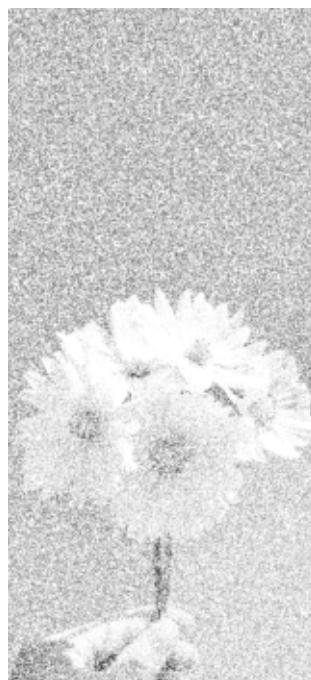


Bilateral Filter - Kernel Size: 3x3  
MSE: 103.36, PSNR: 27.99 dB, FOM: 0.03

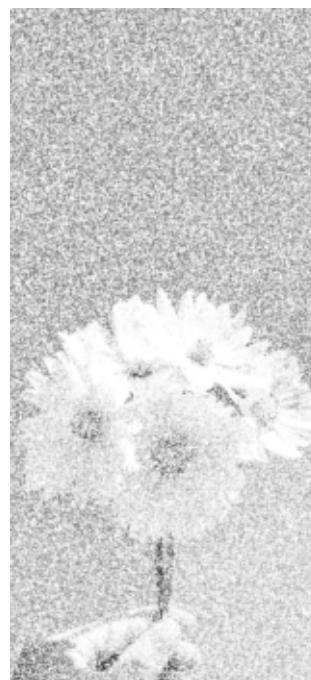
Original Image



Noisy Image



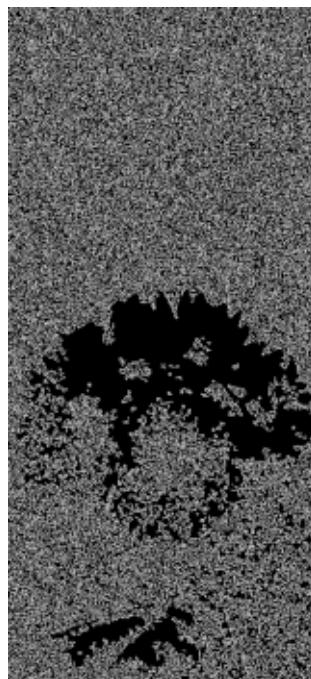
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

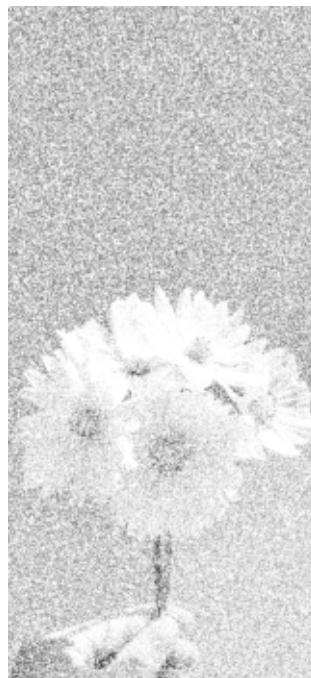


Bilateral Filter - Kernel Size: 9x9  
MSE: 98.68, PSNR: 28.19 dB, FOM: 0.02

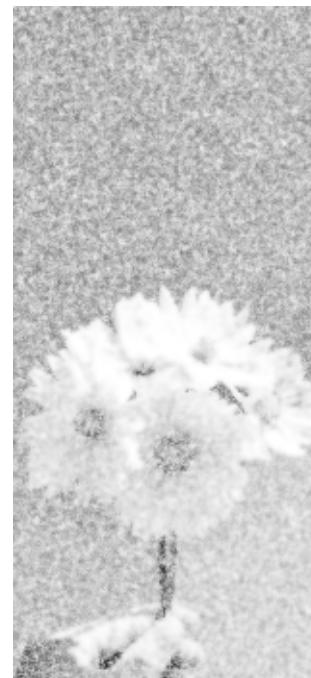
Original Image



Noisy Image



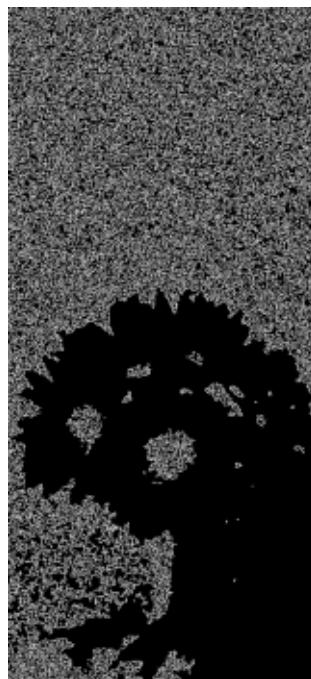
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

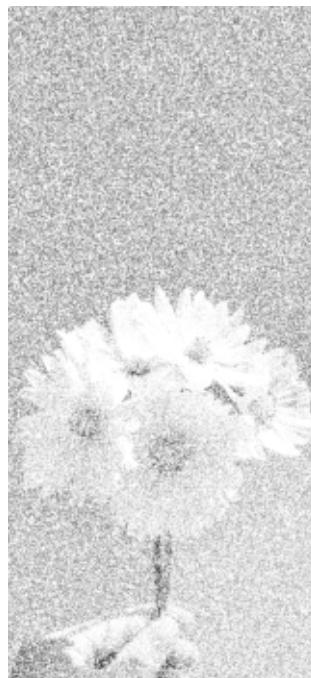


Bilateral Filter - Kernel Size: 15x15  
MSE: 97.41, PSNR: 28.24 dB, FOM: 0.02

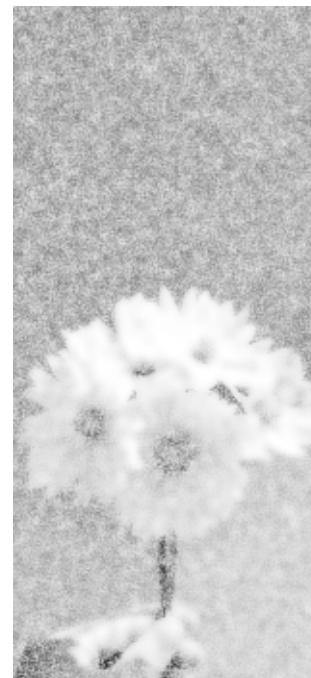
Original Image



Noisy Image



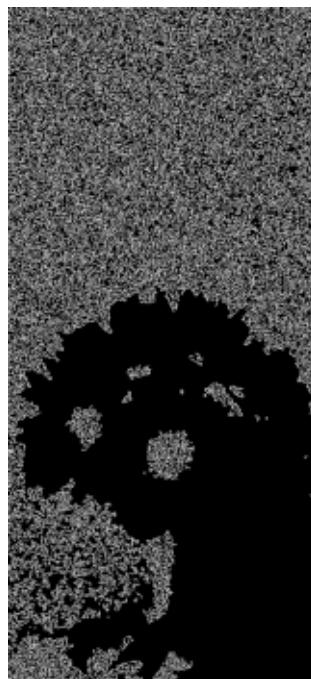
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 107.60, PSNR: 27.81 dB, FOM: 0.03

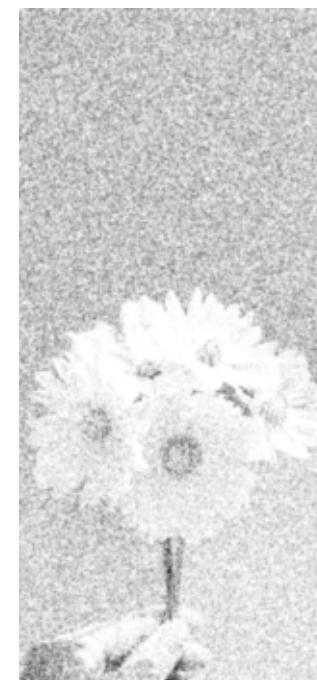
Original Image



Noisy Image



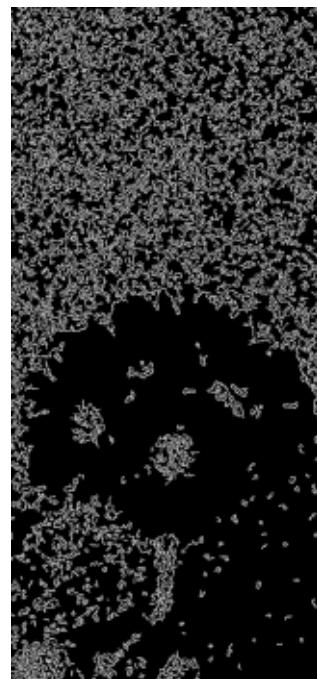
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 113.75, PSNR: 27.57 dB, FOM: 0.00

Original Image



Noisy Image



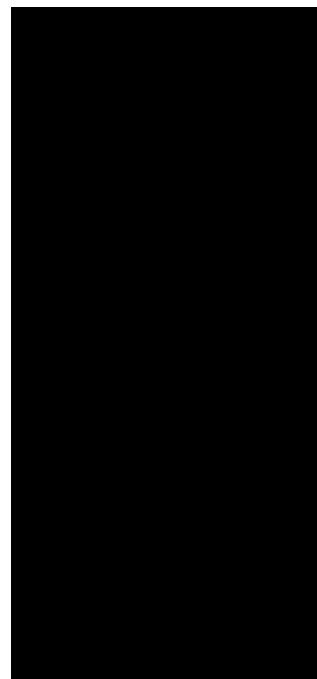
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 114.26, PSNR: 27.55 dB, FOM: 0.00

Original Image



Noisy Image



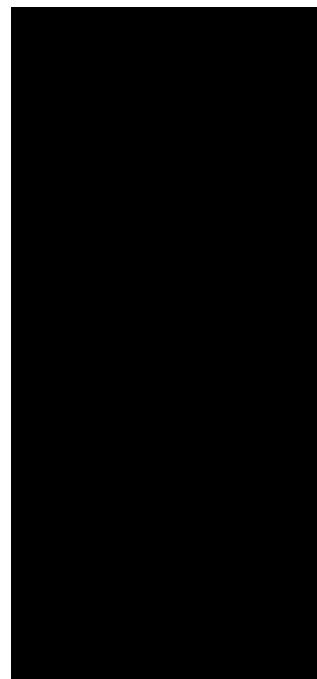
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 105.99, PSNR: 27.88 dB, FOM: 0.03

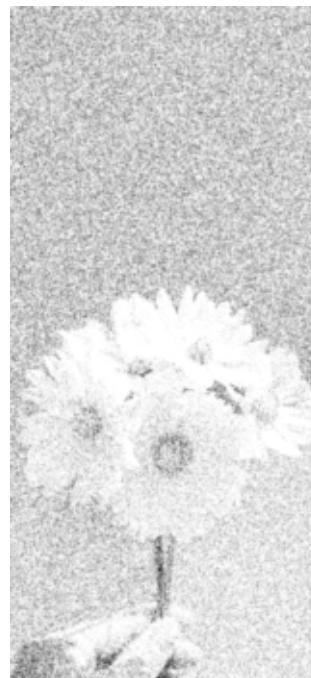
Original Image



Noisy Image



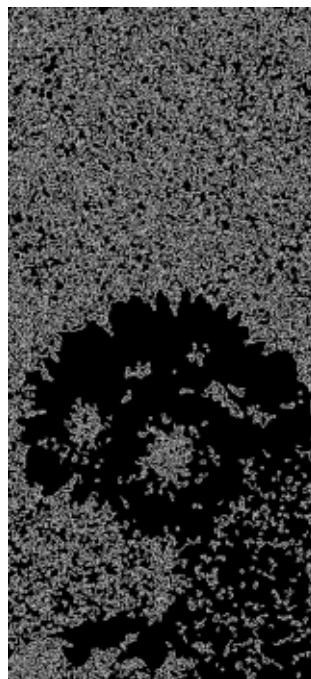
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 9x9  
MSE: 113.95, PSNR: 27.56 dB, FOM: 0.02

Original Image



Noisy Image



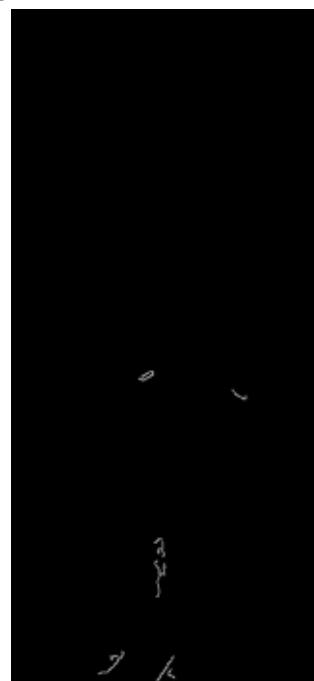
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

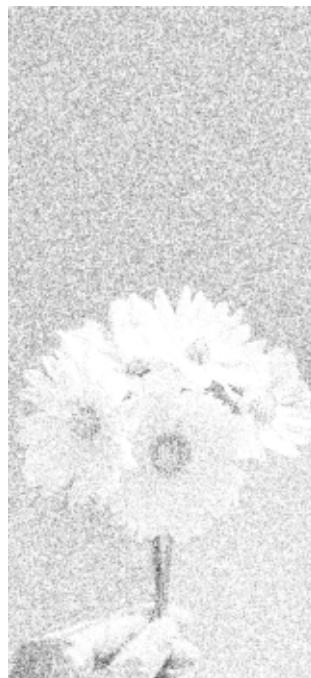


Gaussian Filter - Kernel Size: 15x15  
MSE: 113.65, PSNR: 27.58 dB, FOM: 0.00

Original Image



Noisy Image



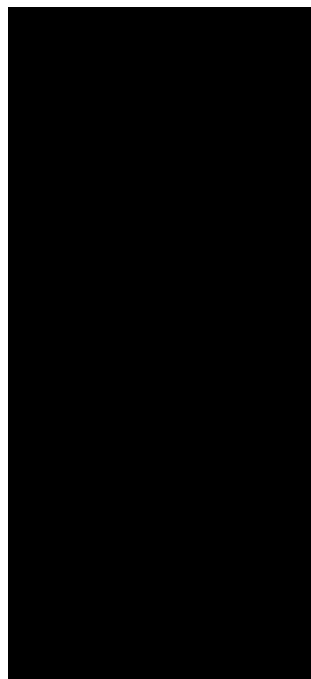
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 104.88, PSNR: 27.92 dB, FOM: 0.02

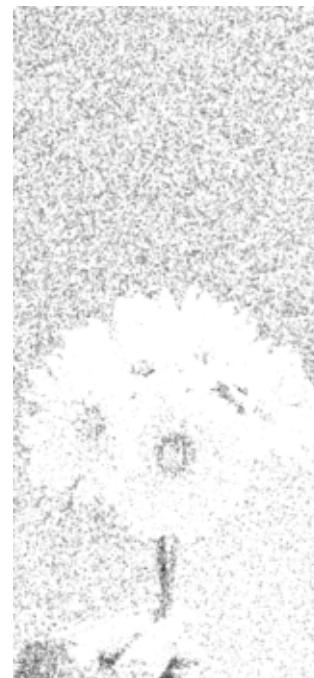
Original Image



Noisy Image



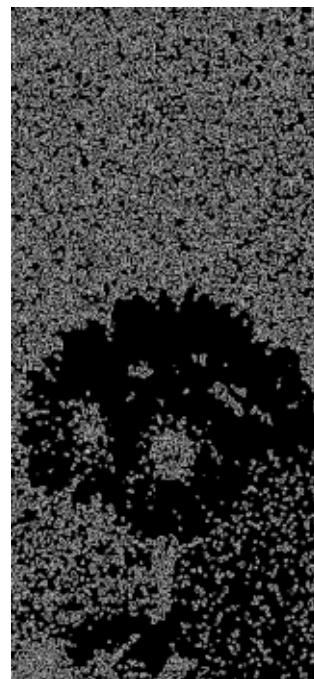
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 90.76, PSNR: 28.55 dB, FOM: 0.02

Original Image



Noisy Image



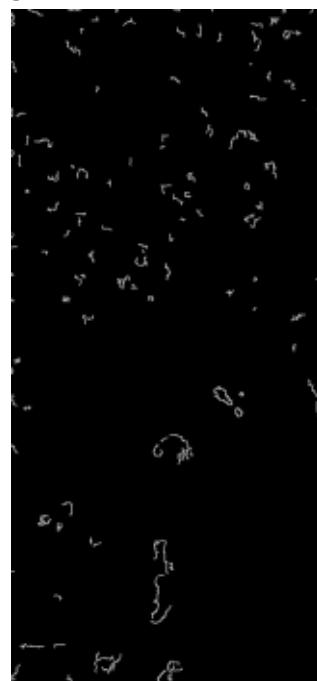
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 79.06, PSNR: 29.15 dB, FOM: 0.00

Original Image



Noisy Image



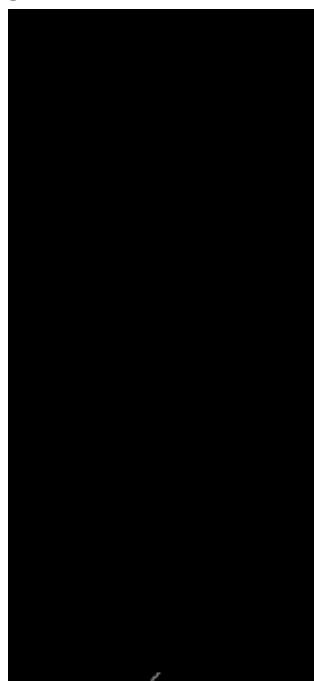
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 108.54, PSNR: 27.77 dB, FOM: 0.04

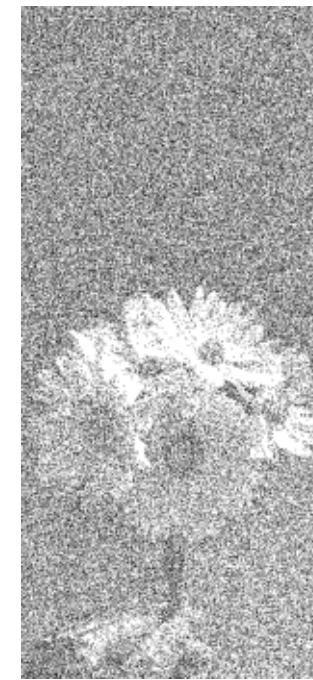
Original Image



Noisy Image



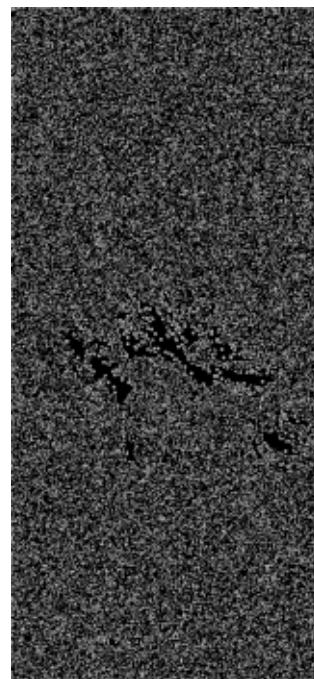
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 108.53, PSNR: 27.78 dB, FOM: 0.04

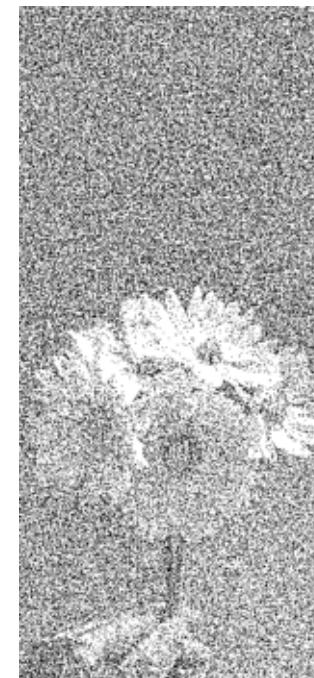
Original Image



Noisy Image



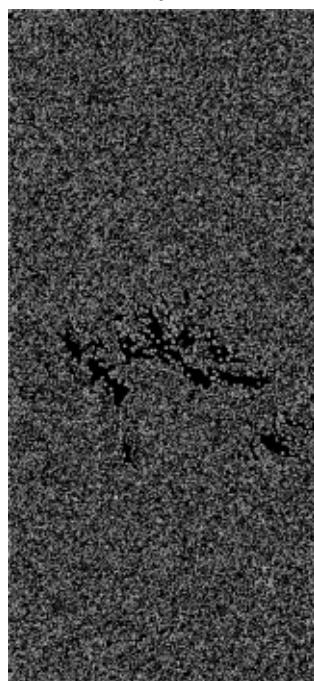
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 108.52, PSNR: 27.78 dB, FOM: 0.04

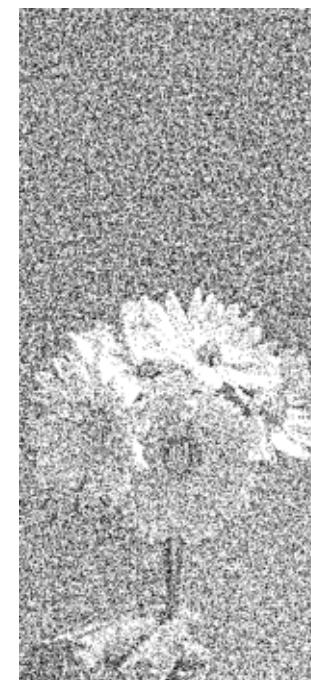
Original Image



Noisy Image



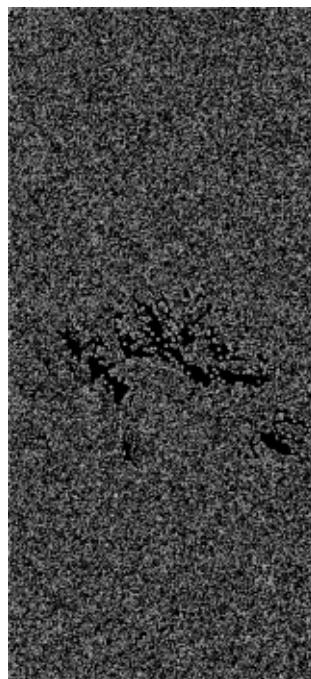
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 106.13, PSNR: 27.87 dB, FOM: 0.02

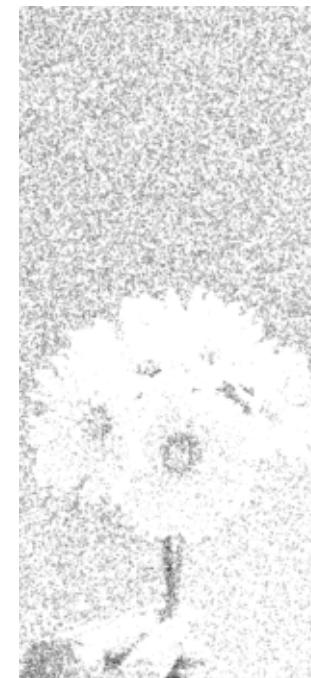
Original Image



Noisy Image



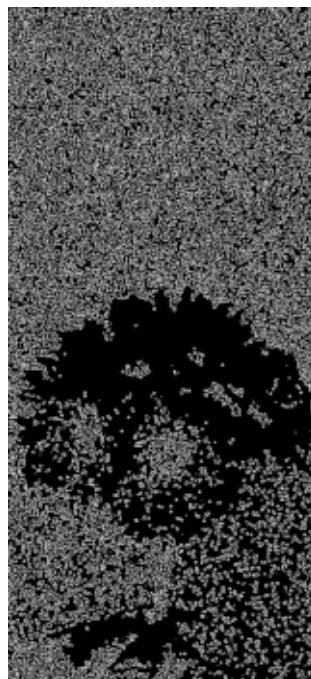
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 9x9  
MSE: 99.45, PSNR: 28.15 dB, FOM: 0.02

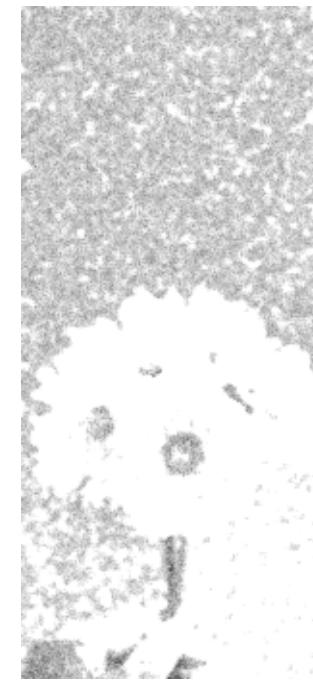
Original Image



Noisy Image



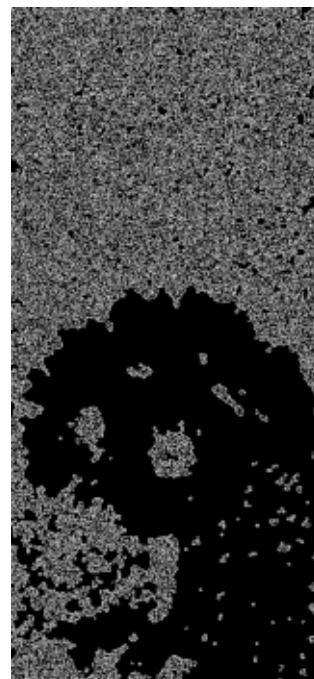
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

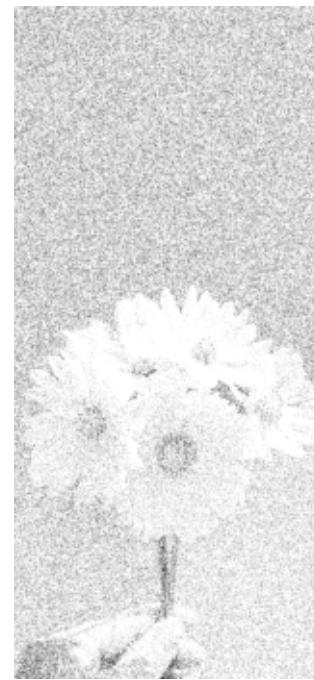


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 94.03, PSNR: 28.40 dB, FOM: 0.01

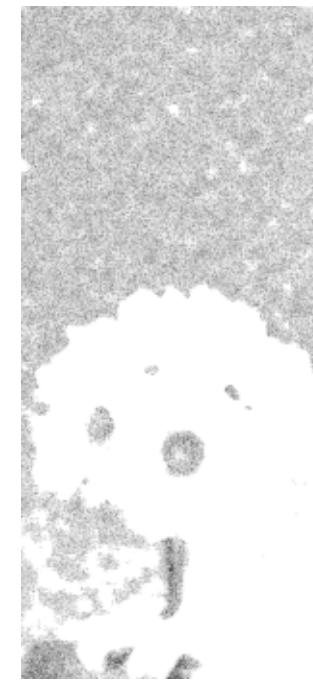
Original Image



Noisy Image



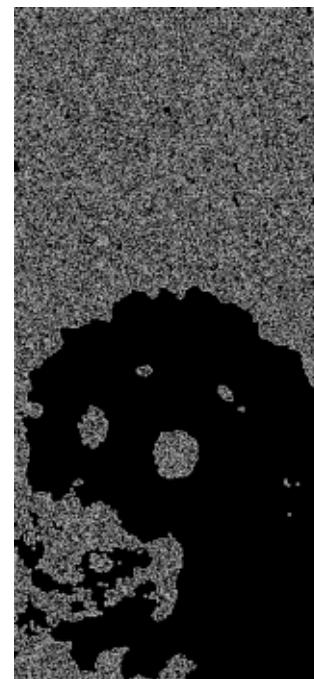
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 99.44, PSNR: 28.16 dB, FOM: 0.03

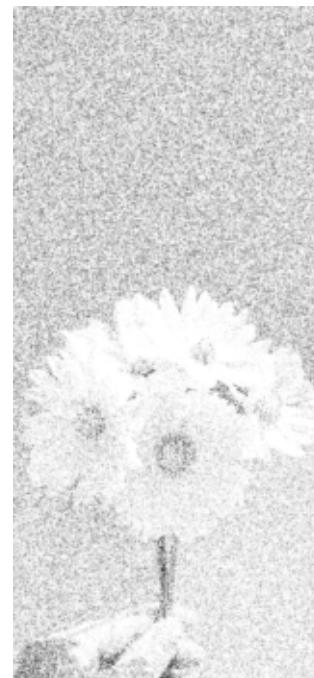
Original Image



Noisy Image



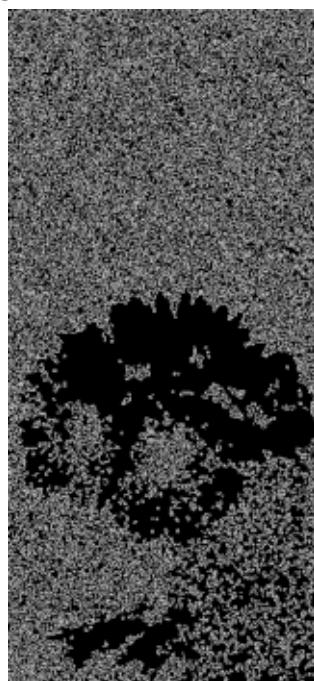
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 97.06, PSNR: 28.26 dB, FOM: 0.03

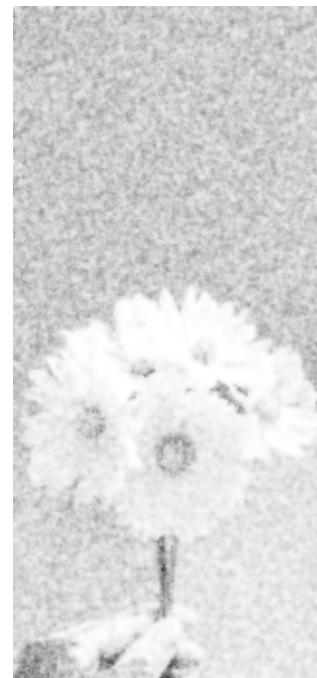
Original Image



Noisy Image



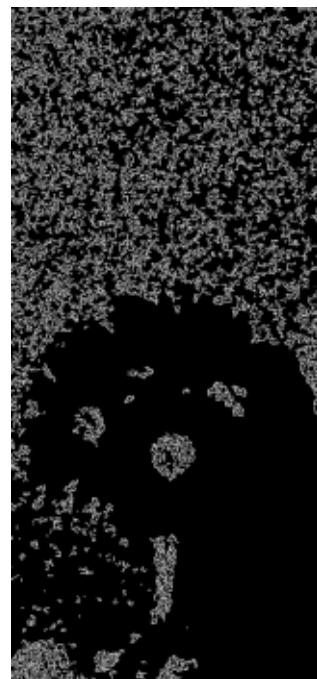
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 97.24, PSNR: 28.25 dB, FOM: 0.02

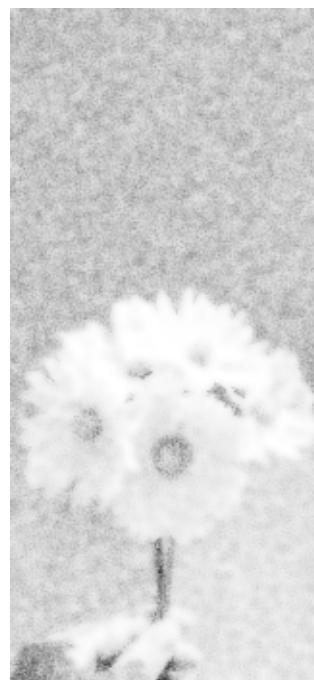
Original Image



Noisy Image



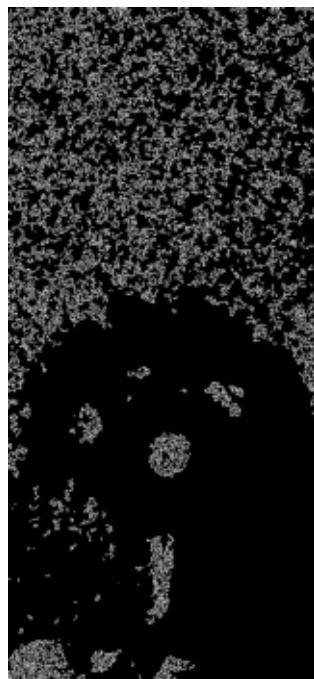
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

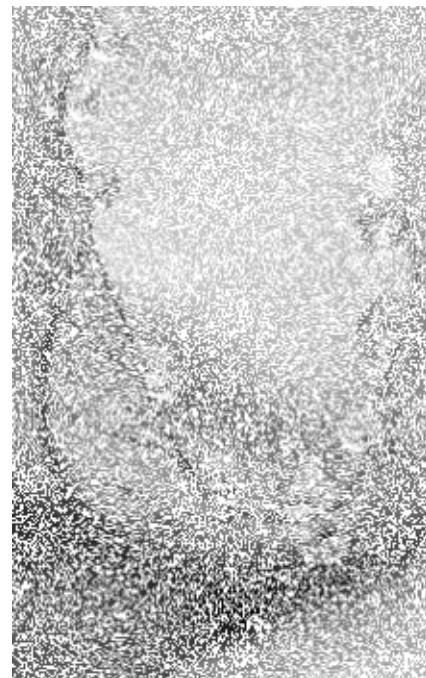


Box Filter - Kernel Size: 3x3  
MSE: 115.45, PSNR: 27.51 dB, FOM: 0.06

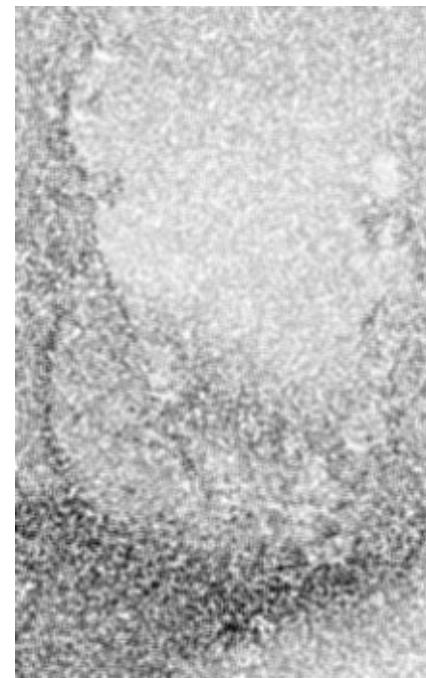
Original Image



Noisy Image



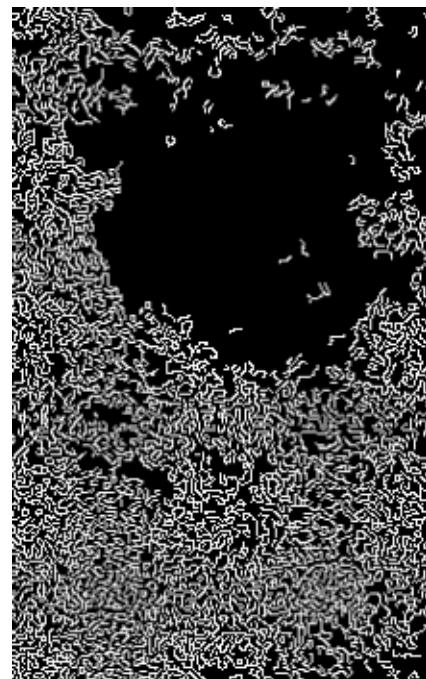
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

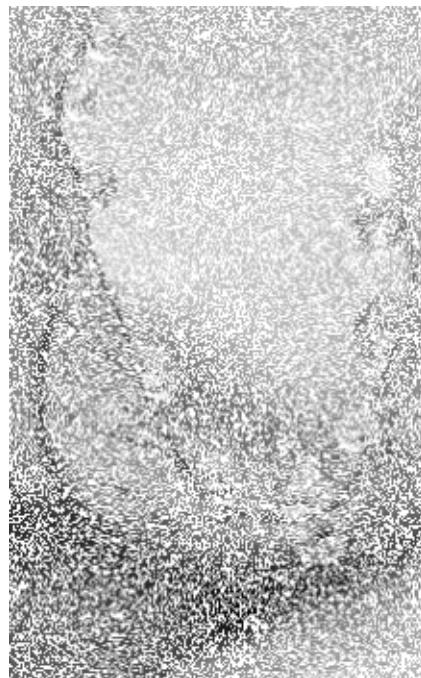


Box Filter - Kernel Size: 9x9  
MSE: 116.54, PSNR: 27.47 dB, FOM: 0.00

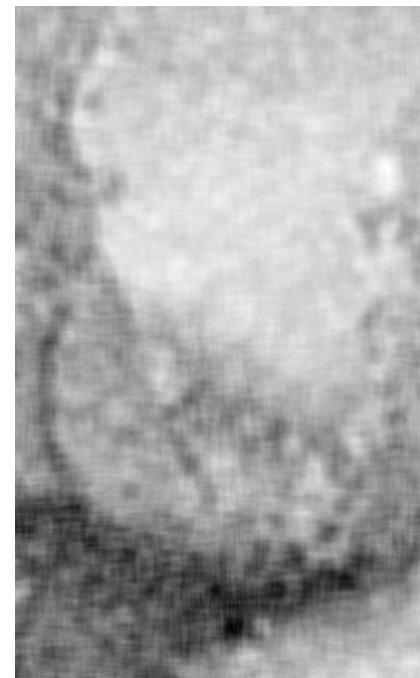
Original Image



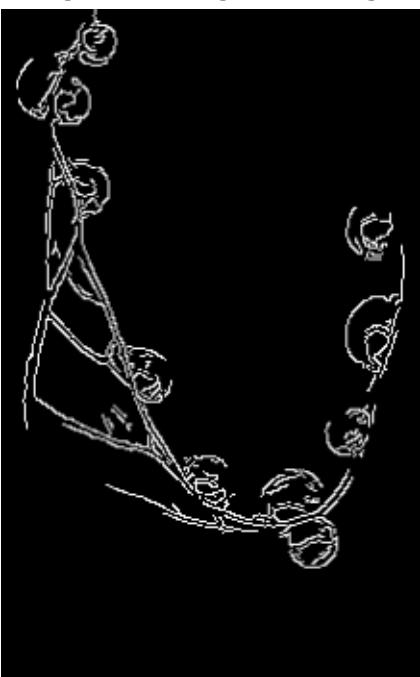
Noisy Image



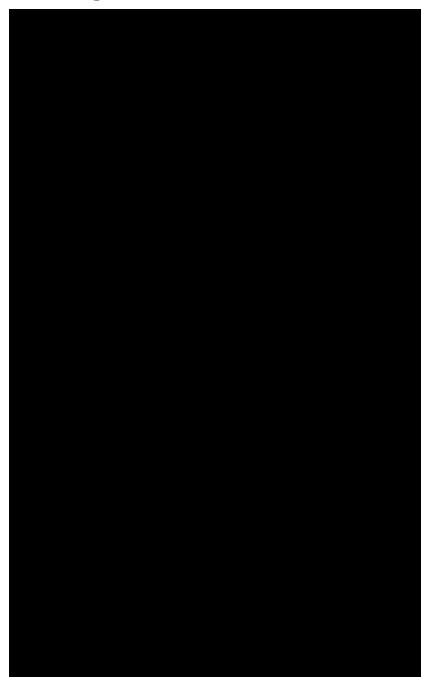
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

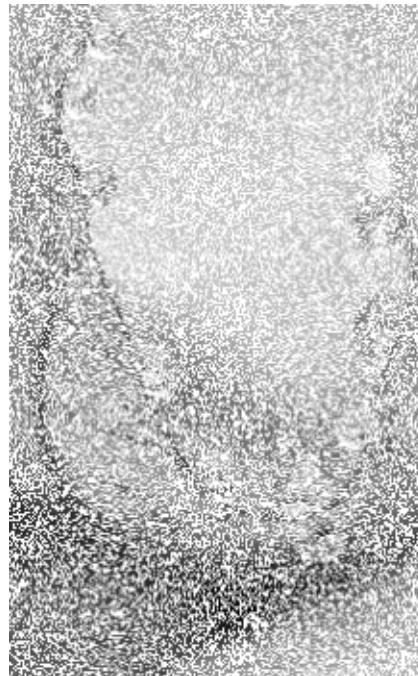


Box Filter - Kernel Size: 15x15  
MSE: 116.98, PSNR: 27.45 dB, FOM: 0.00

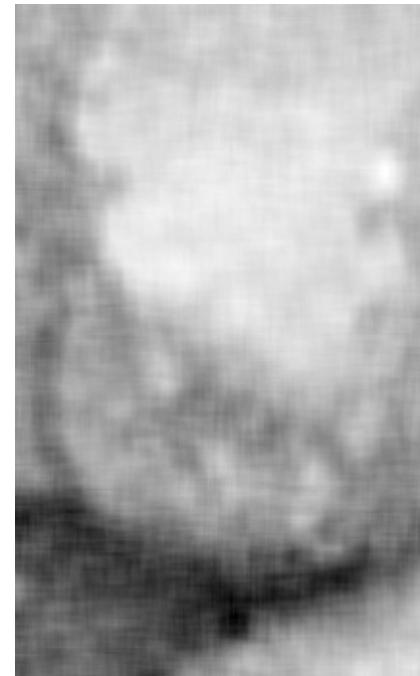
Original Image



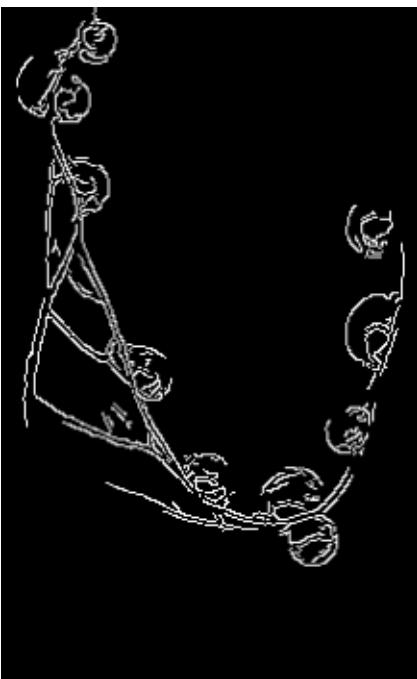
Noisy Image



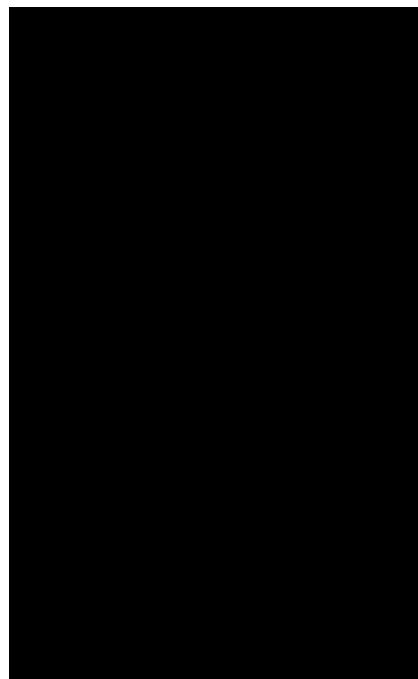
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

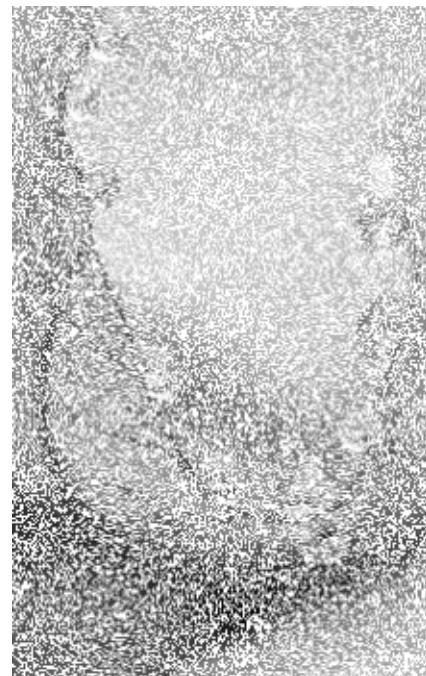


Gaussian Filter - Kernel Size: 3x3  
MSE: 115.17, PSNR: 27.52 dB, FOM: 0.05

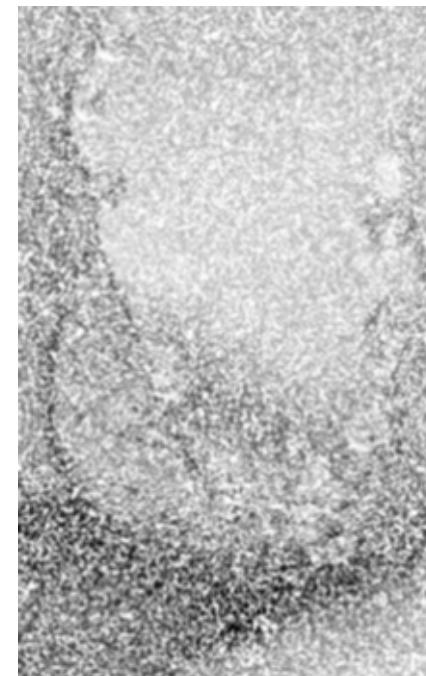
Original Image



Noisy Image



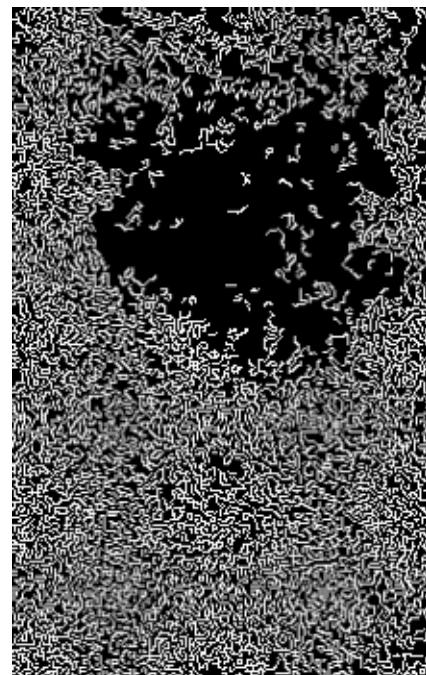
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

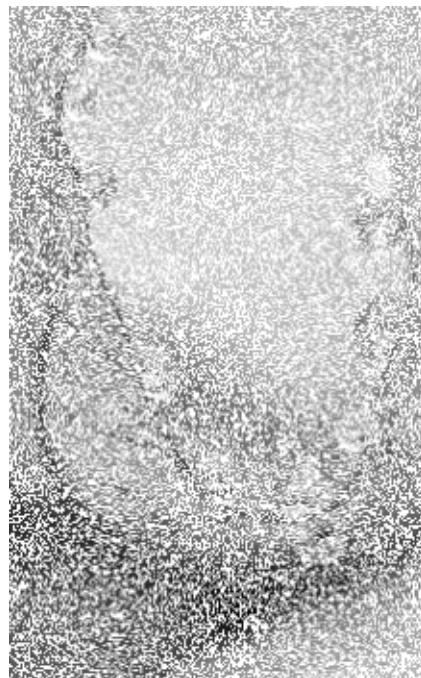


Gaussian Filter - Kernel Size: 9x9  
MSE: 116.85, PSNR: 27.45 dB, FOM: 0.01

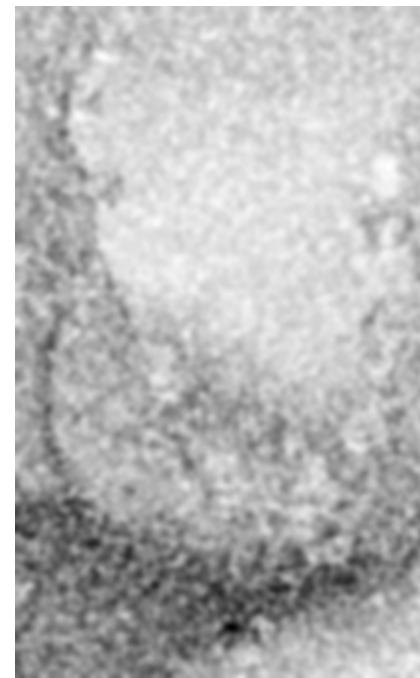
Original Image



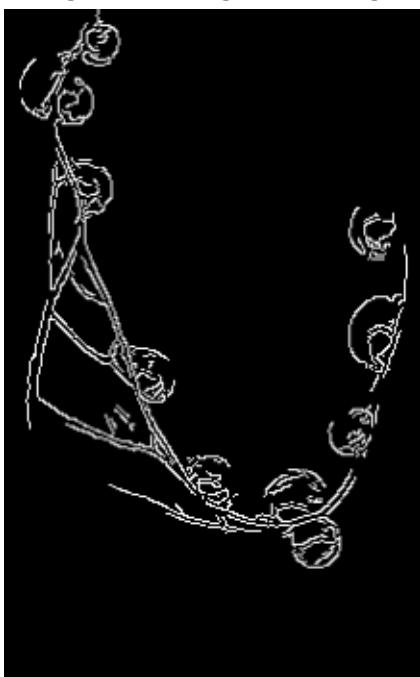
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

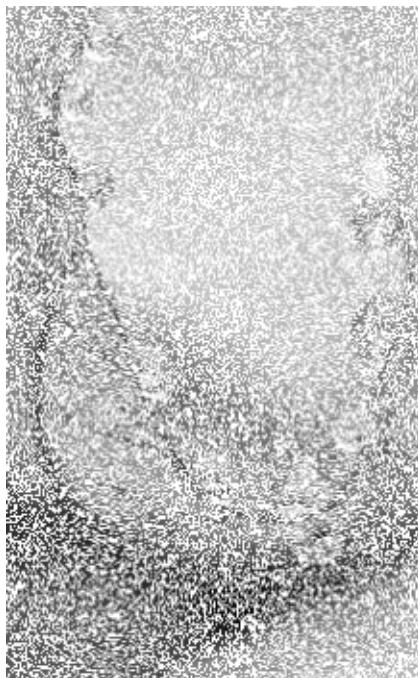


Gaussian Filter - Kernel Size: 15x15  
MSE: 116.19, PSNR: 27.48 dB, FOM: 0.00

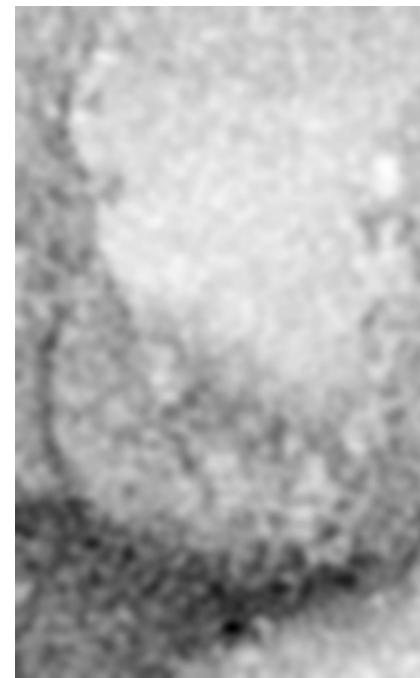
Original Image



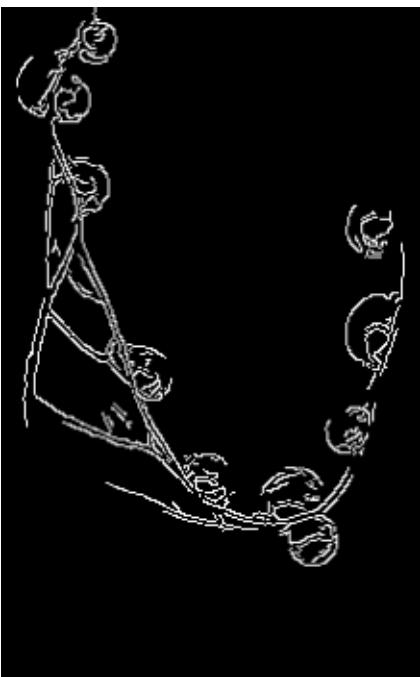
Noisy Image



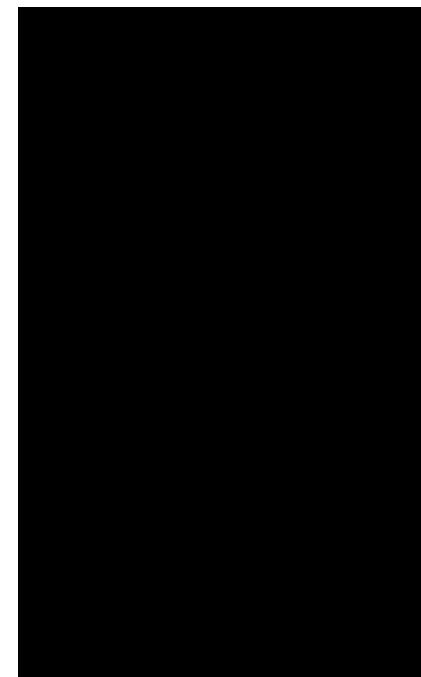
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

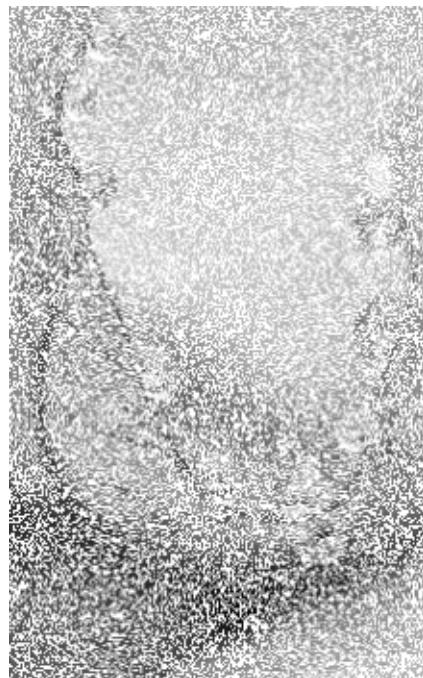


Median Filter - Kernel Size: 3x3  
MSE: 100.30, PSNR: 28.12 dB, FOM: 0.04

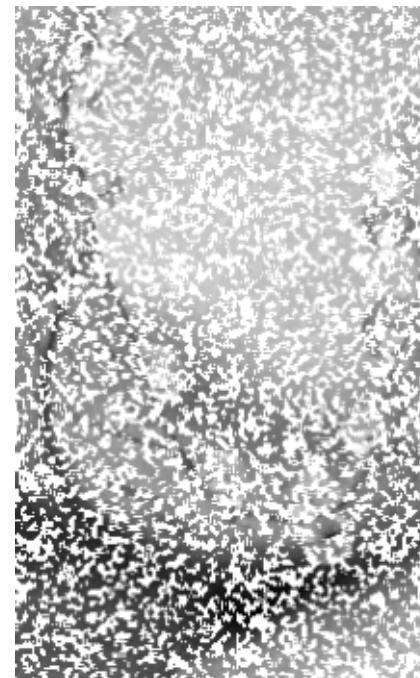
Original Image



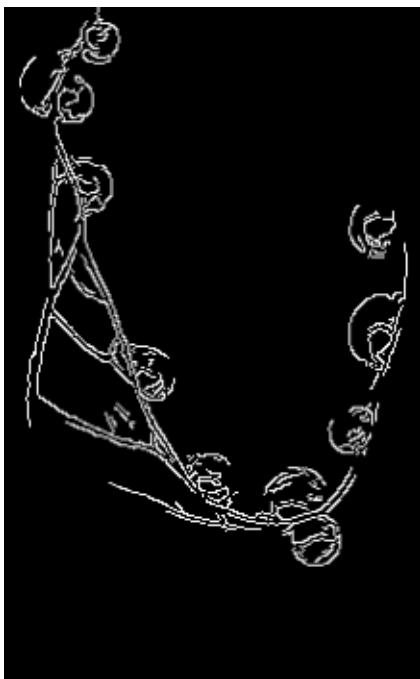
Noisy Image



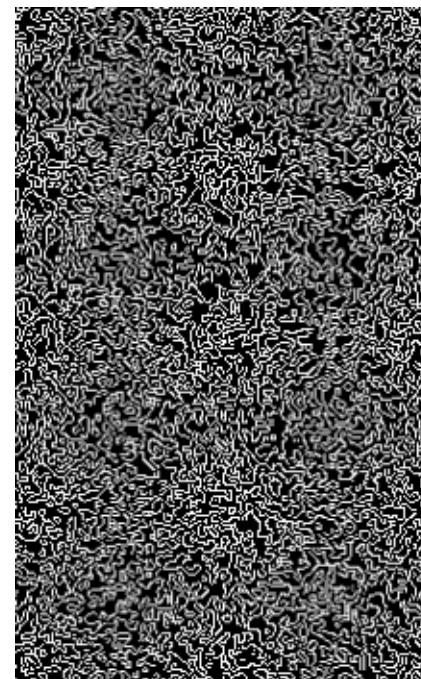
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

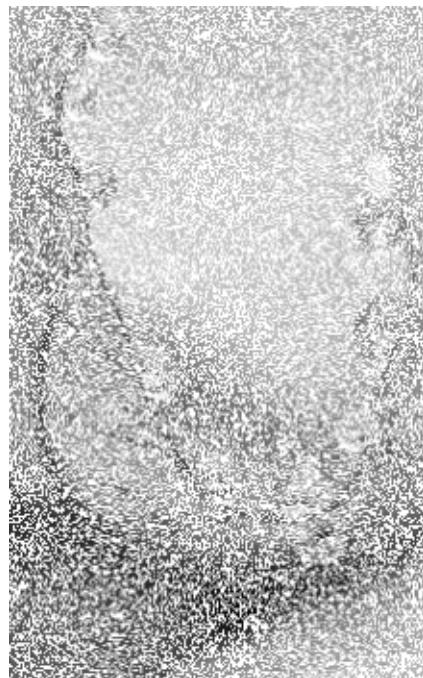


Median Filter - Kernel Size: 9x9  
MSE: 115.31, PSNR: 27.51 dB, FOM: 0.04

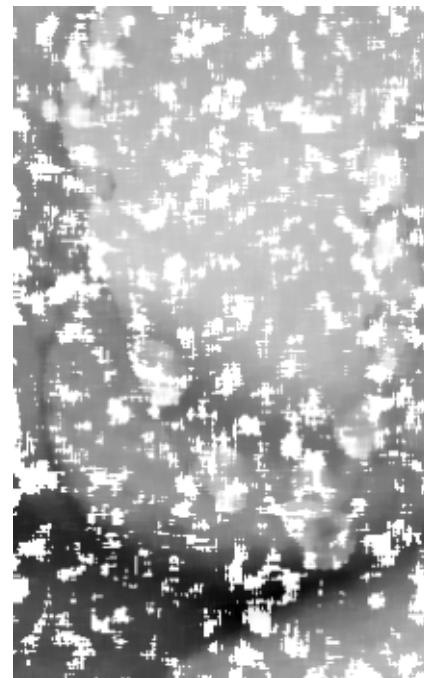
Original Image



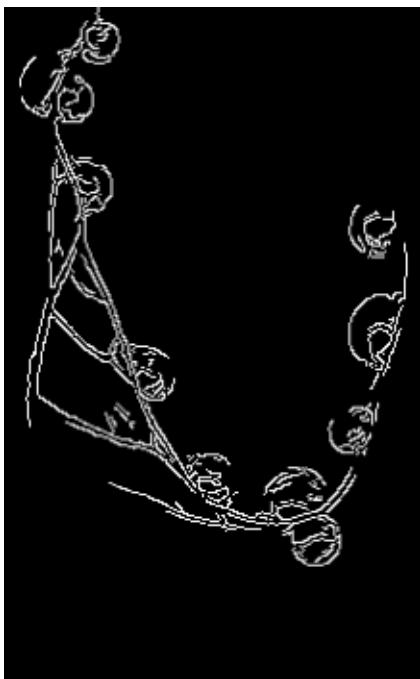
Noisy Image



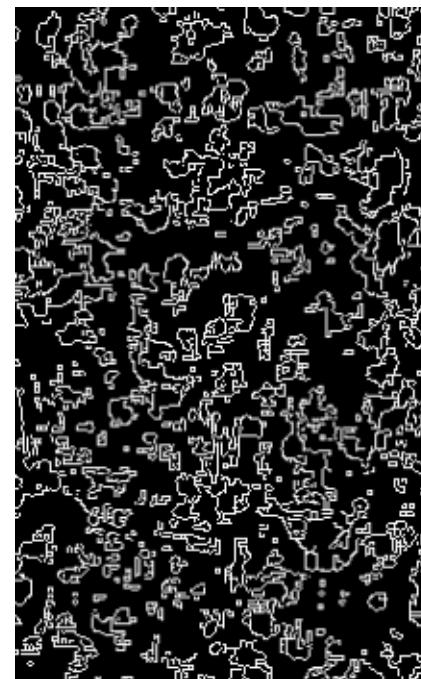
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

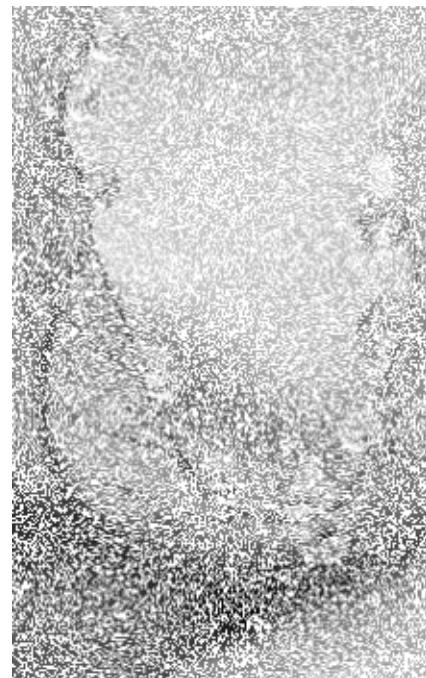


Median Filter - Kernel Size: 15x15  
MSE: 114.42, PSNR: 27.55 dB, FOM: 0.04

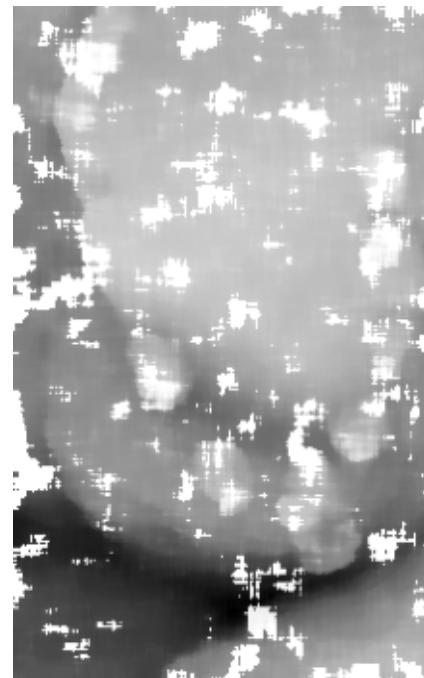
Original Image



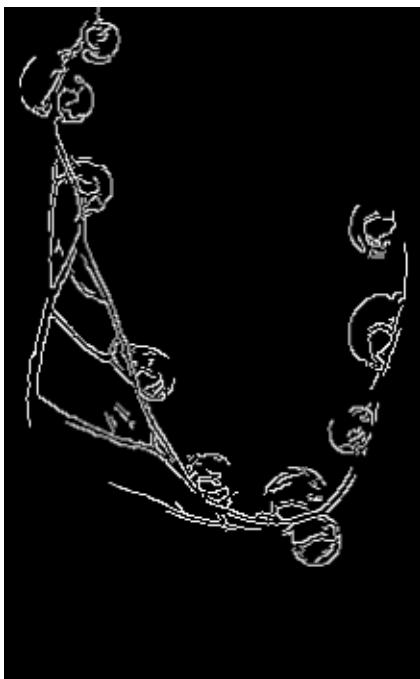
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

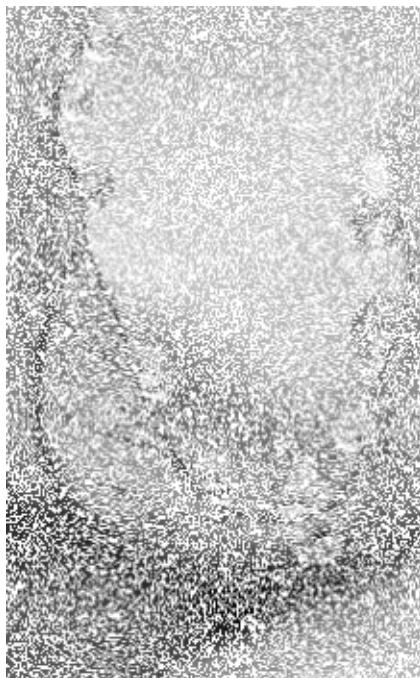


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 102.41, PSNR: 28.03 dB, FOM: 0.04

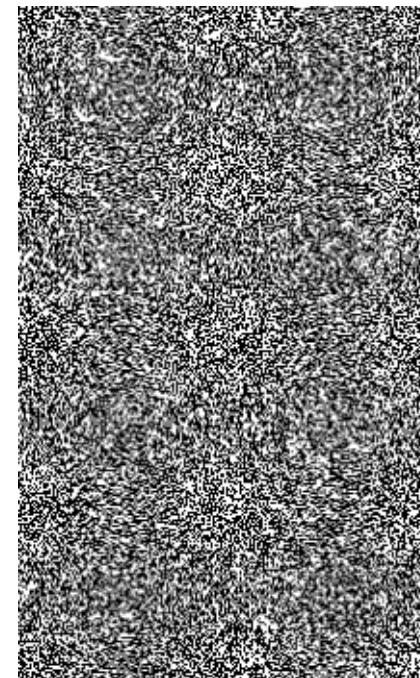
Original Image



Noisy Image



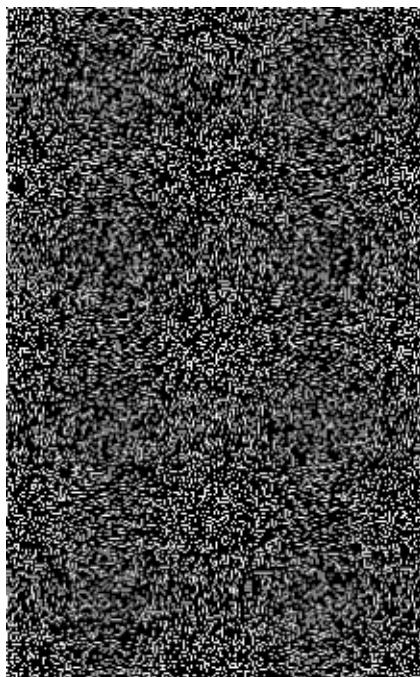
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

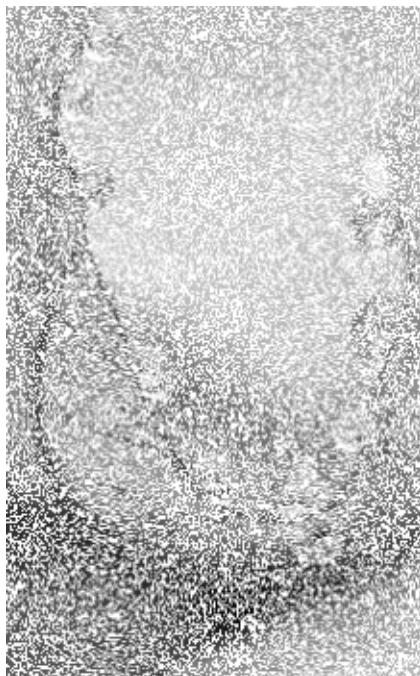


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 102.34, PSNR: 28.03 dB, FOM: 0.04

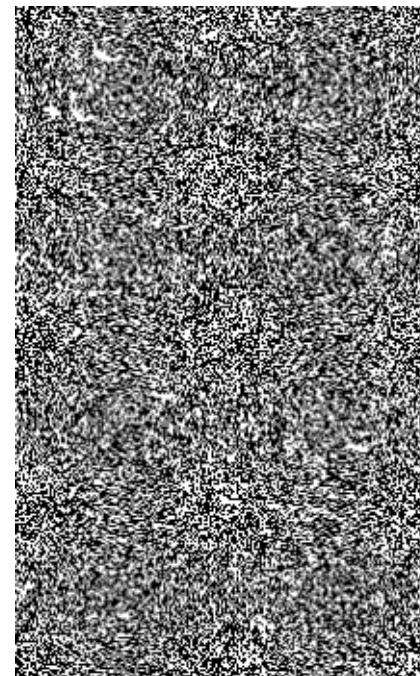
Original Image



Noisy Image



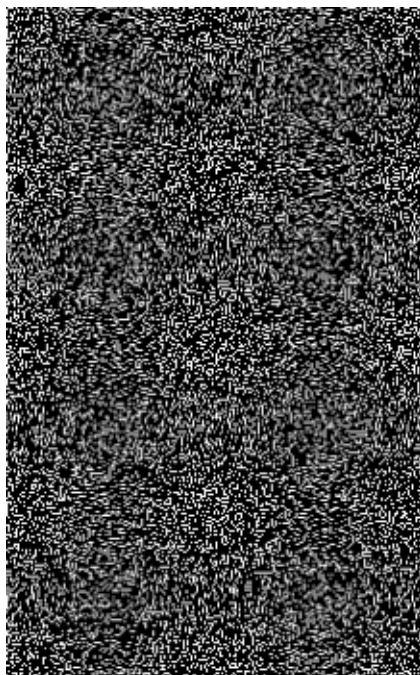
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

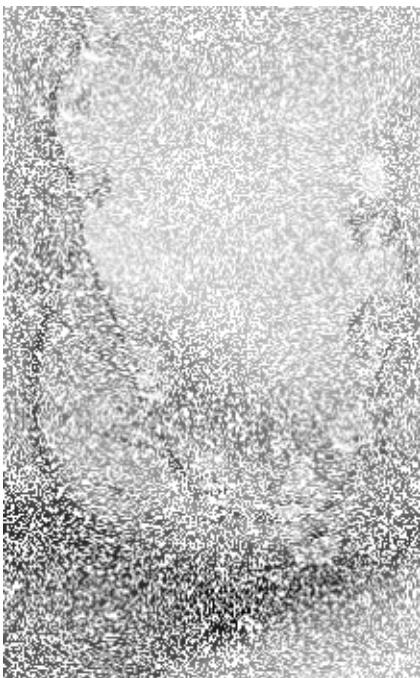


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 102.36, PSNR: 28.03 dB, FOM: 0.04

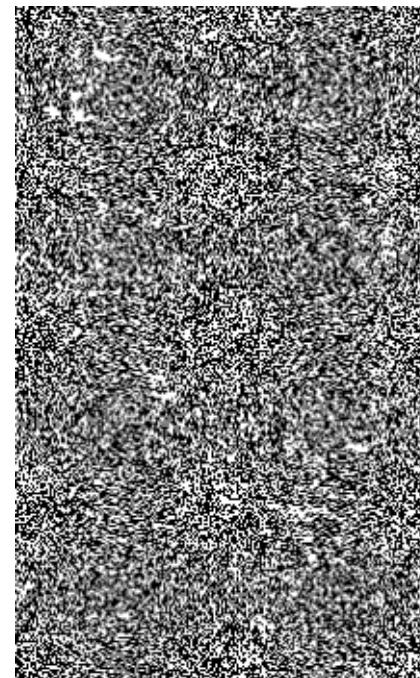
Original Image



Noisy Image



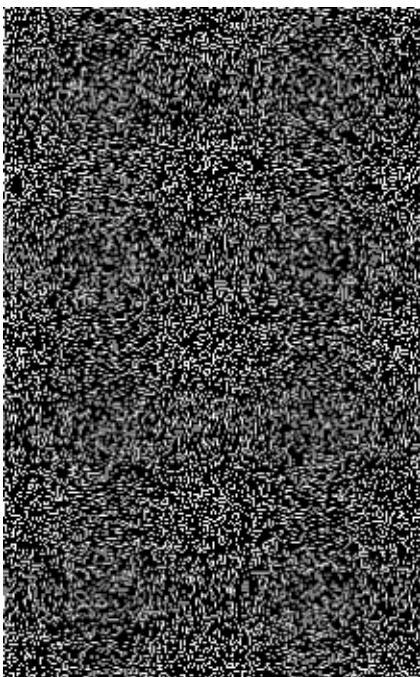
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

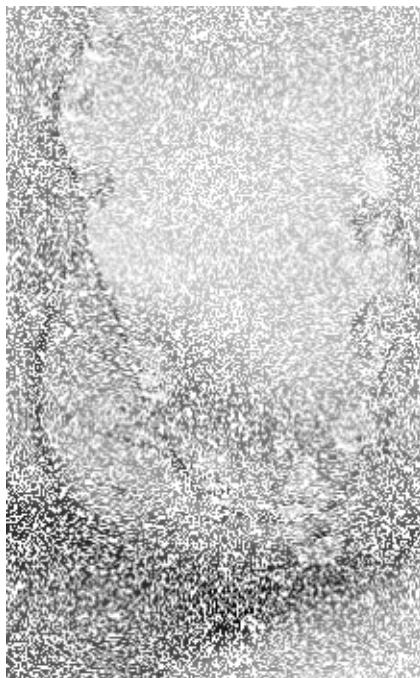


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 90.11, PSNR: 28.58 dB, FOM: 0.04

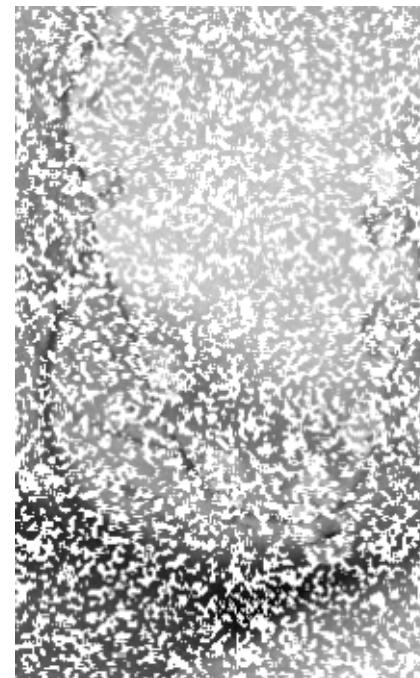
Original Image



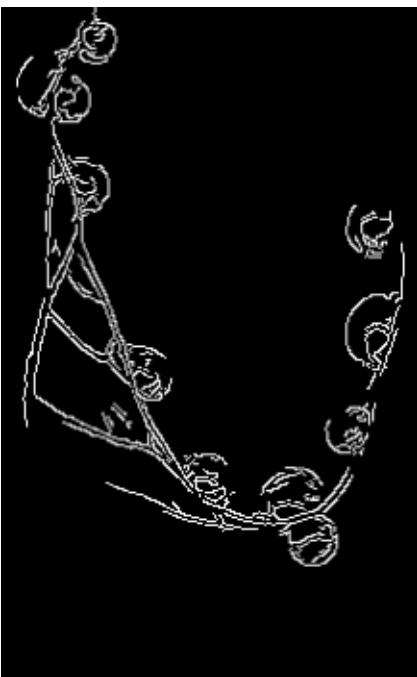
Noisy Image



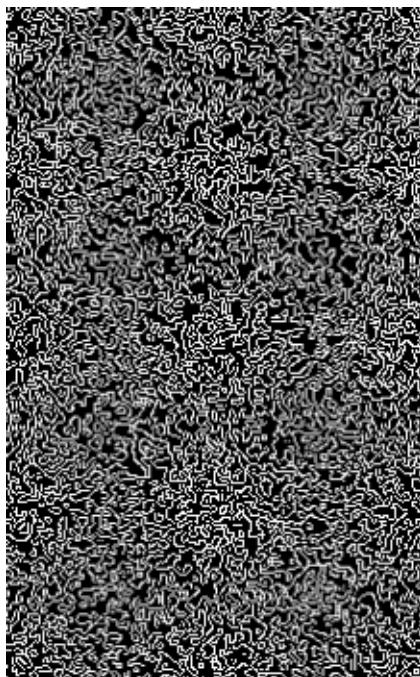
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

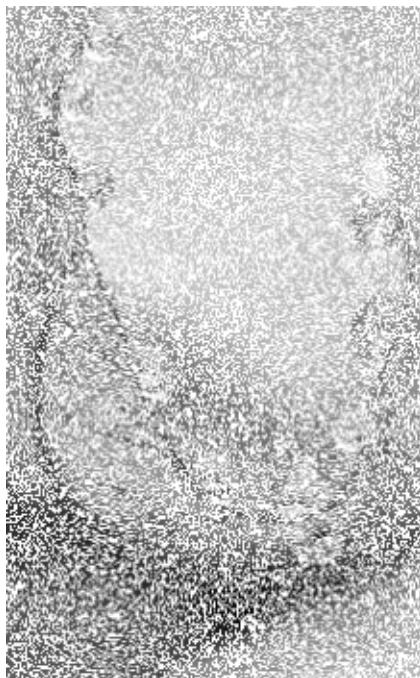


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 87.31, PSNR: 28.72 dB, FOM: 0.07

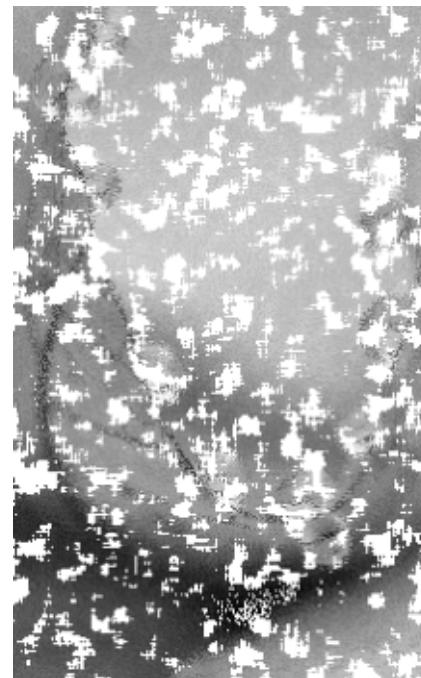
Original Image



Noisy Image



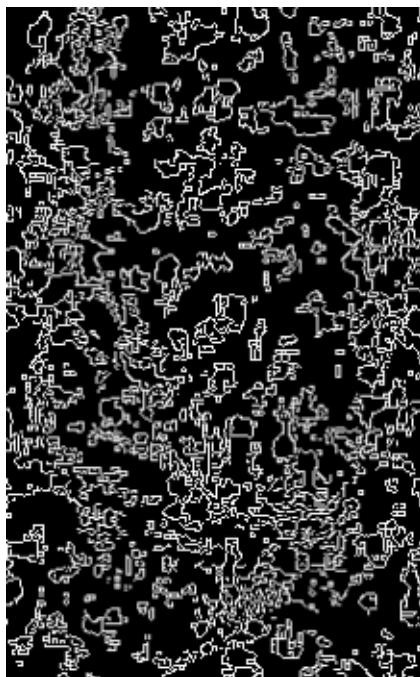
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

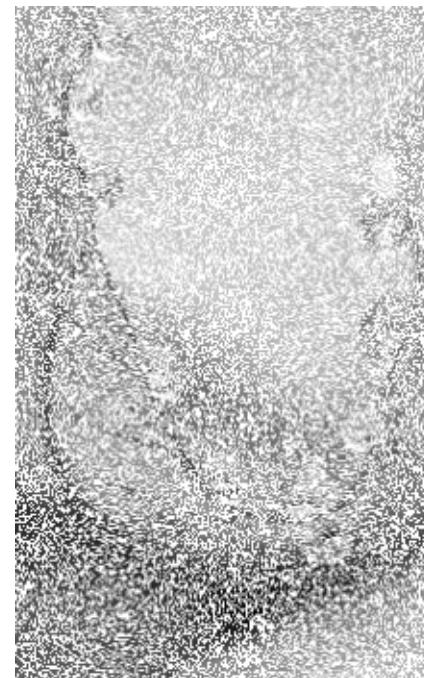


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 83.53, PSNR: 28.91 dB, FOM: 0.10

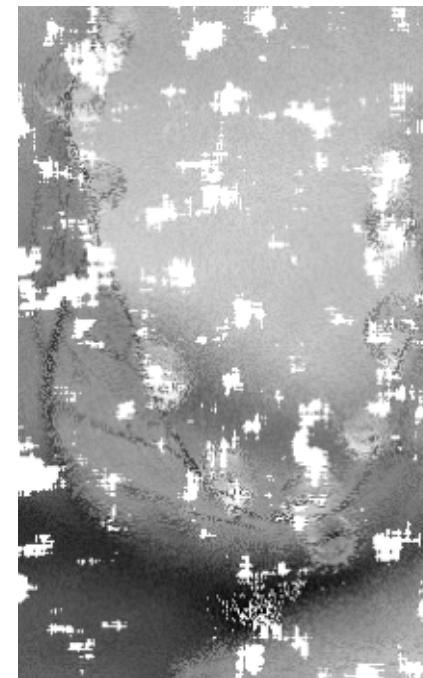
Original Image



Noisy Image



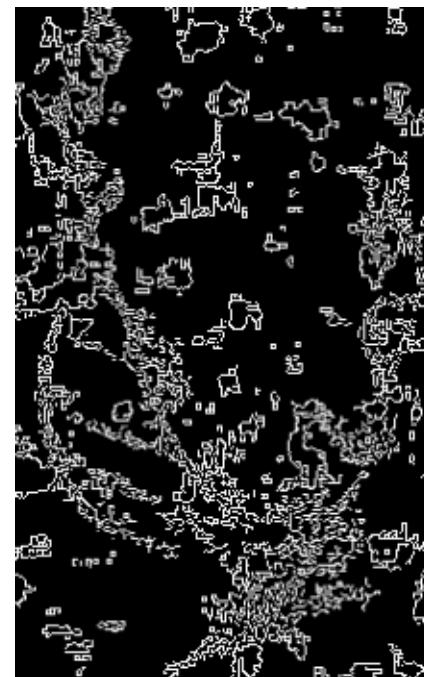
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

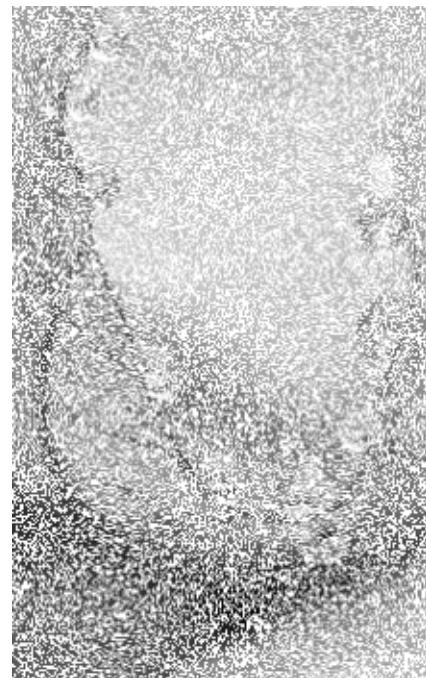


Bilateral Filter - Kernel Size: 3x3  
MSE: 109.35, PSNR: 27.74 dB, FOM: 0.04

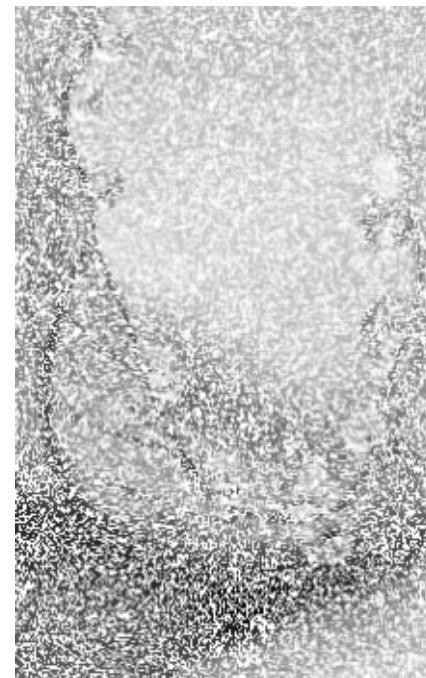
Original Image



Noisy Image



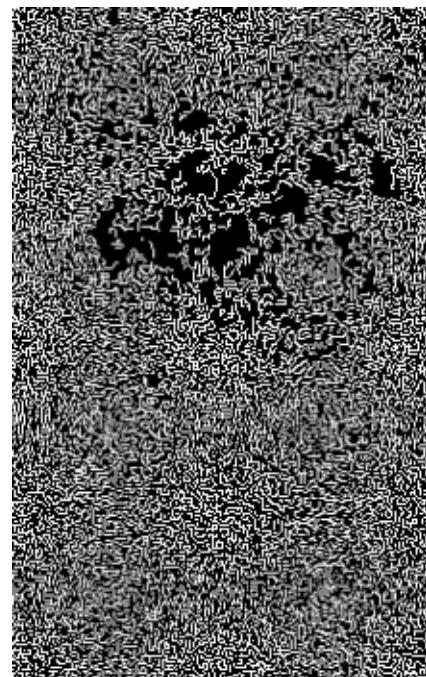
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

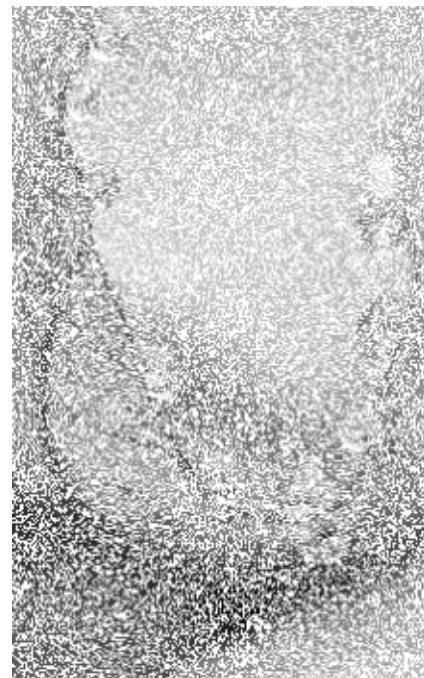


Bilateral Filter - Kernel Size: 9x9  
MSE: 114.63, PSNR: 27.54 dB, FOM: 0.06

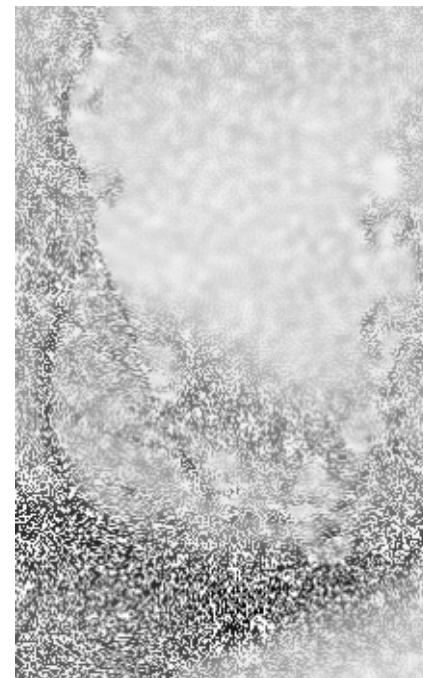
Original Image



Noisy Image



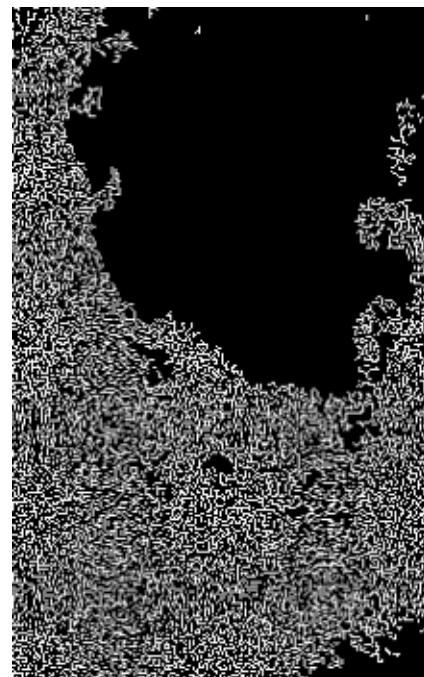
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

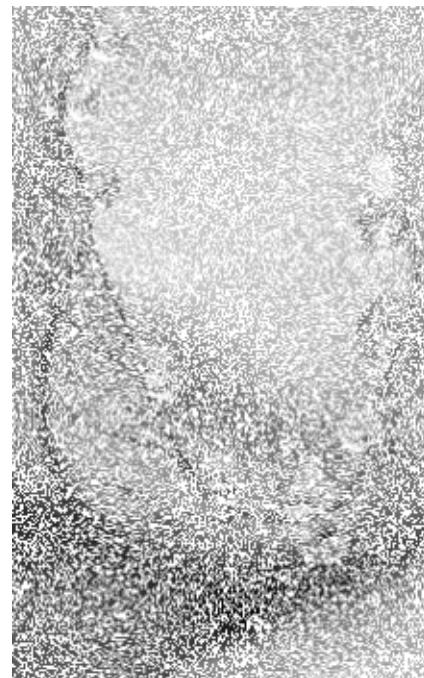


Bilateral Filter - Kernel Size: 15x15  
MSE: 114.83, PSNR: 27.53 dB, FOM: 0.06

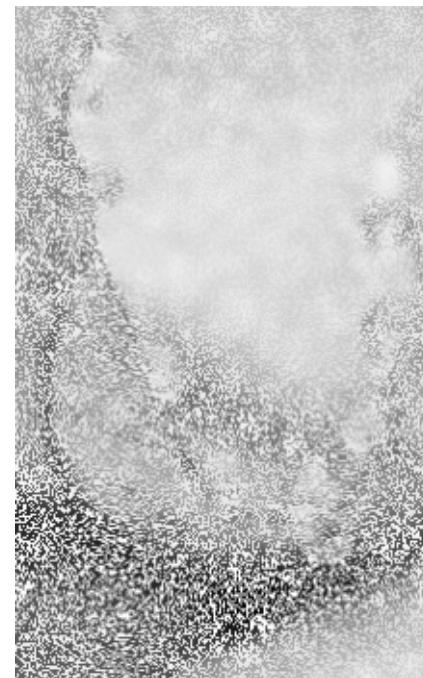
Original Image



Noisy Image



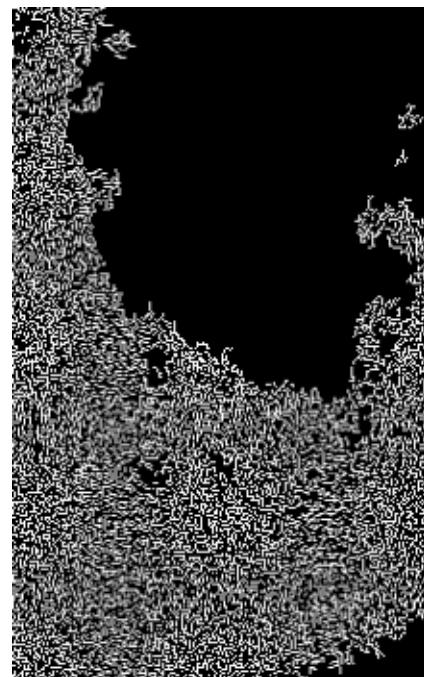
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 111.20, PSNR: 27.67 dB, FOM: 0.07

Original Image



Noisy Image



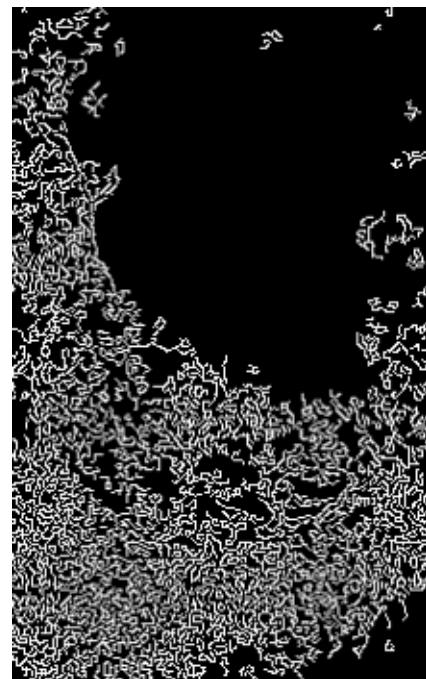
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 109.79, PSNR: 27.73 dB, FOM: 0.00

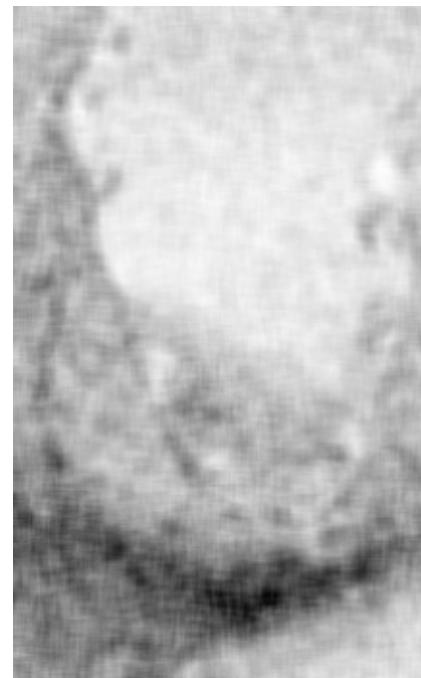
Original Image



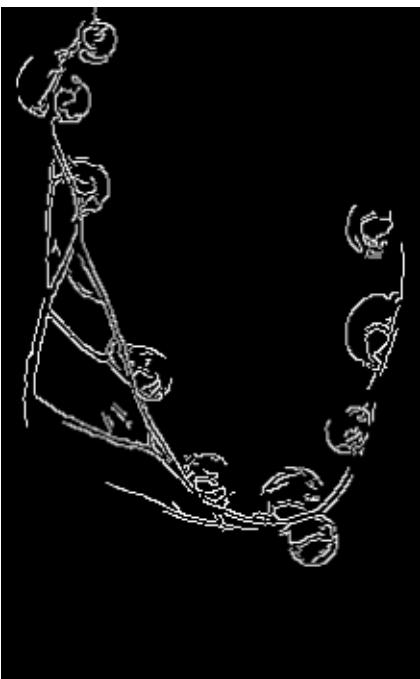
Noisy Image



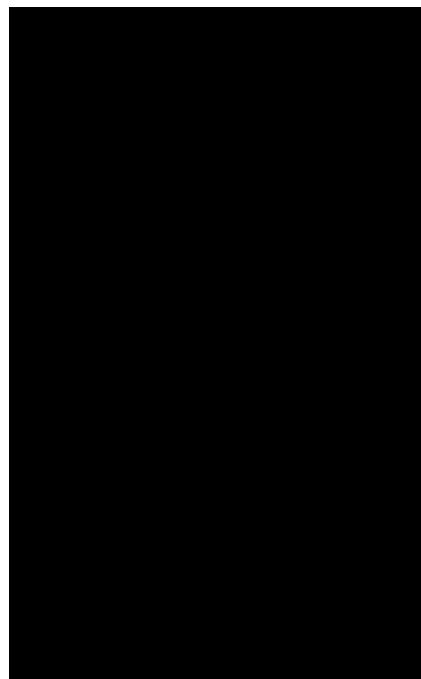
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 108.88, PSNR: 27.76 dB, FOM: 0.00

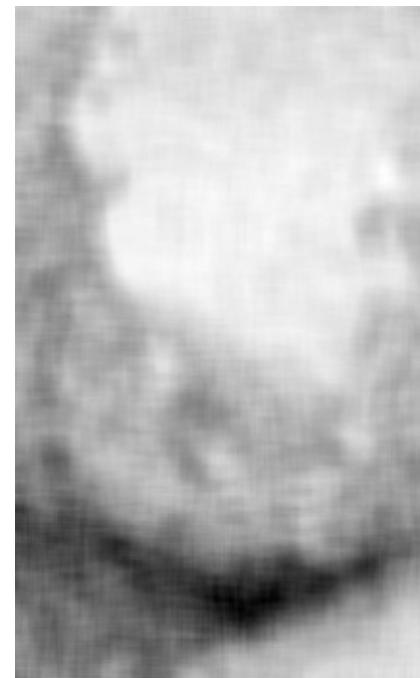
Original Image



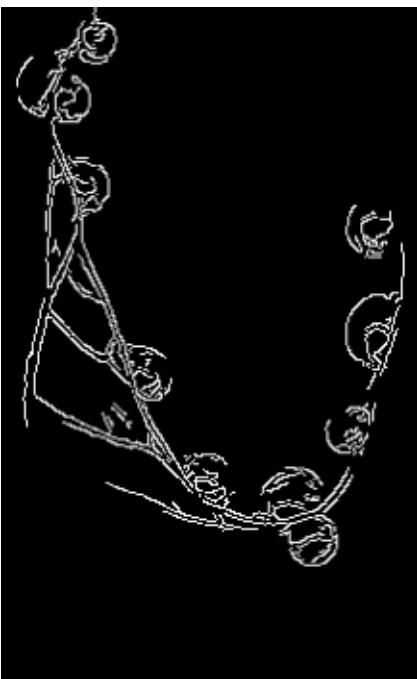
Noisy Image



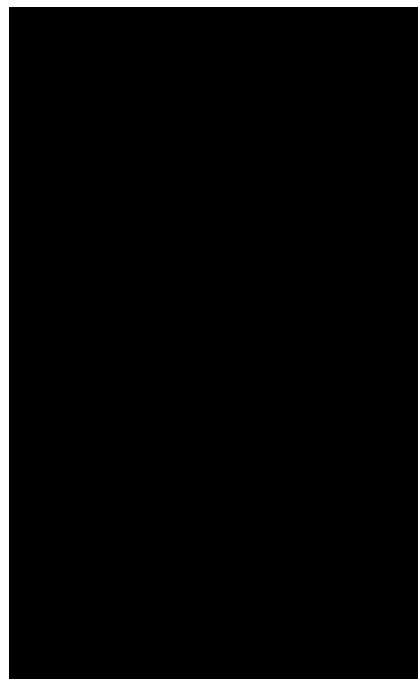
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

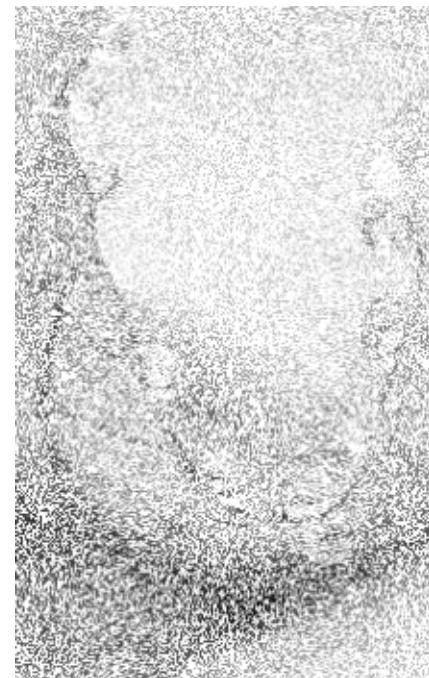


Gaussian Filter - Kernel Size: 3x3  
MSE: 111.02, PSNR: 27.68 dB, FOM: 0.06

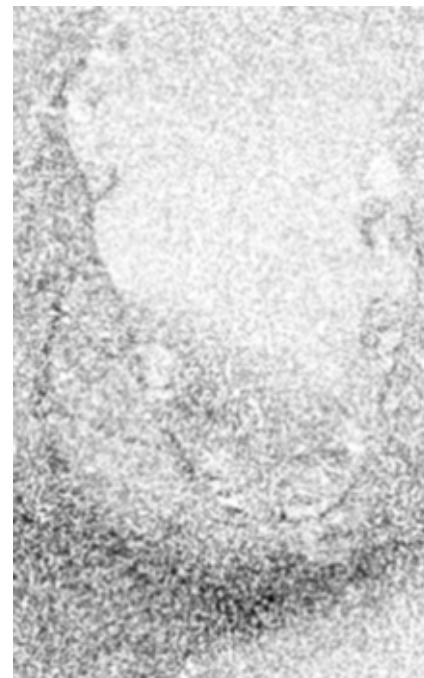
Original Image



Noisy Image



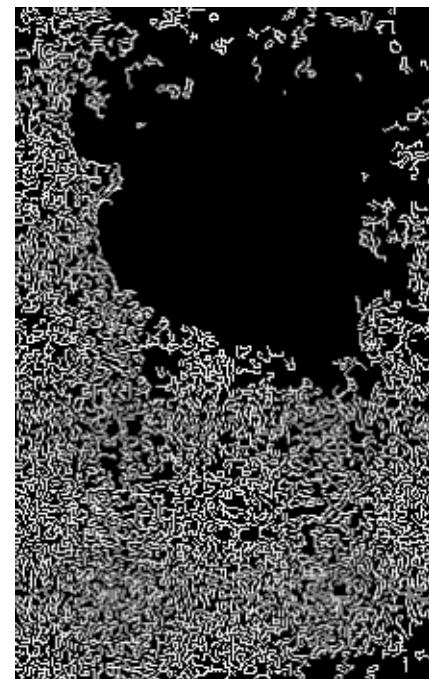
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 9x9  
MSE: 110.91, PSNR: 27.68 dB, FOM: 0.01

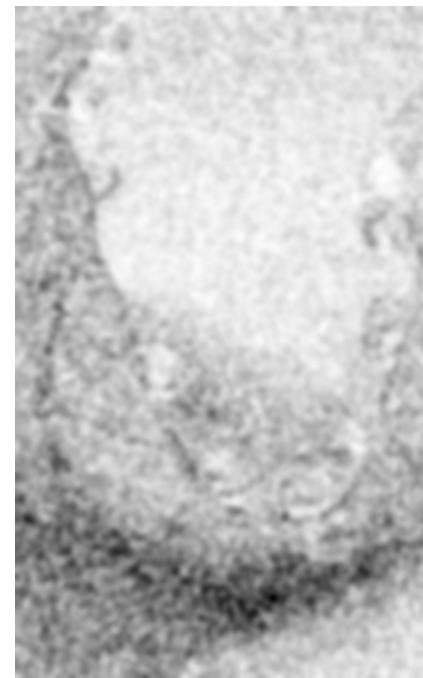
Original Image



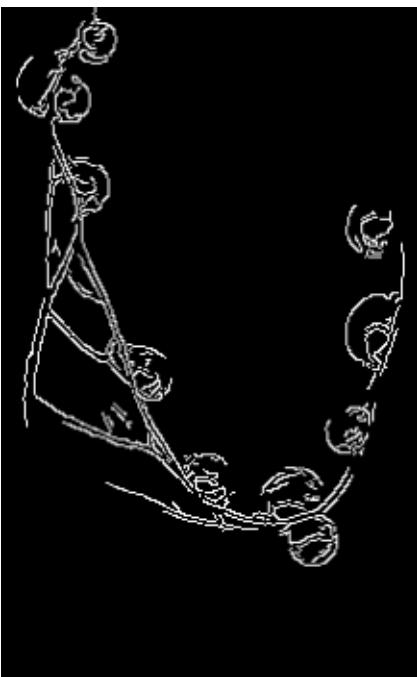
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 109.97, PSNR: 27.72 dB, FOM: 0.00

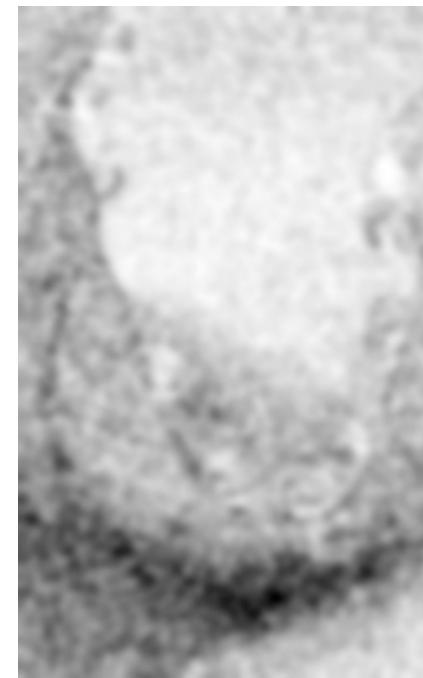
Original Image



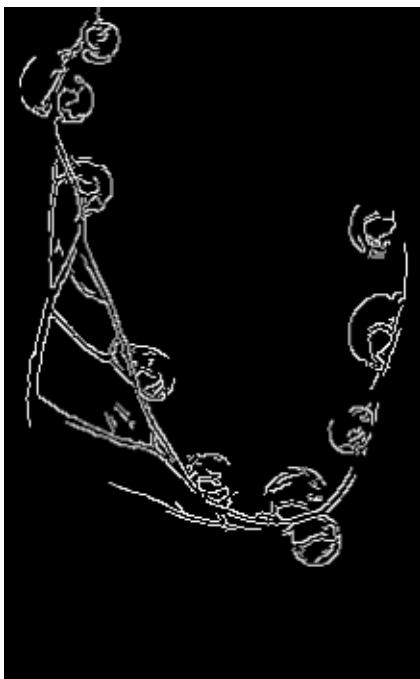
Noisy Image



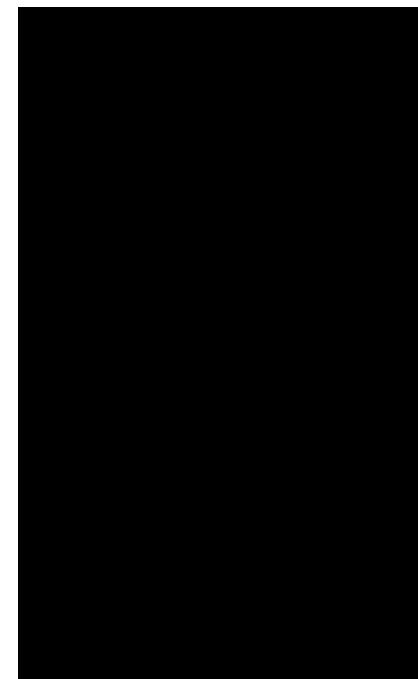
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 108.50, PSNR: 27.78 dB, FOM: 0.04

Original Image



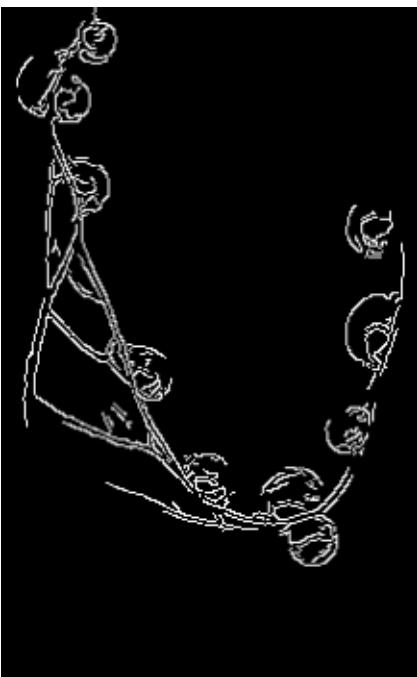
Noisy Image



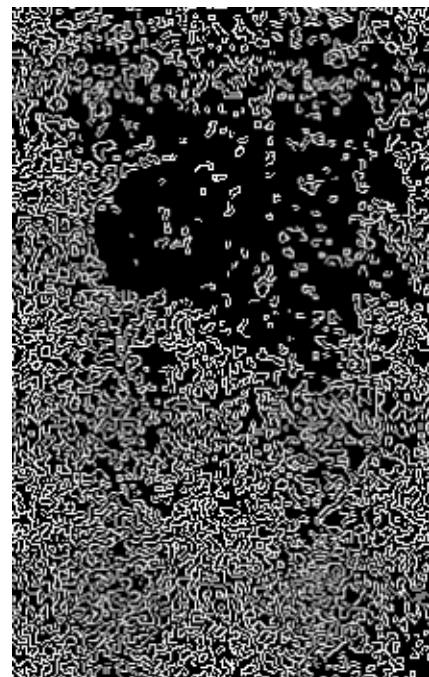
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 106.01, PSNR: 27.88 dB, FOM: 0.04

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 106.60, PSNR: 27.85 dB, FOM: 0.02

Original Image



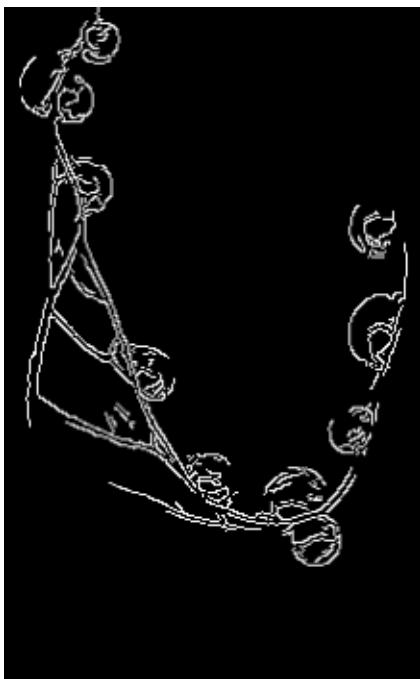
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 102.03, PSNR: 28.04 dB, FOM: 0.04

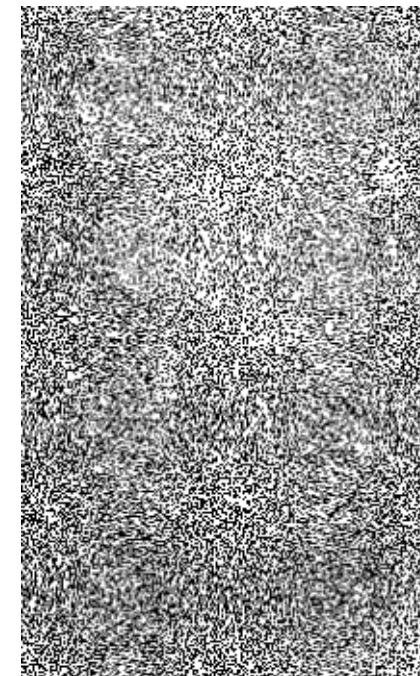
Original Image



Noisy Image



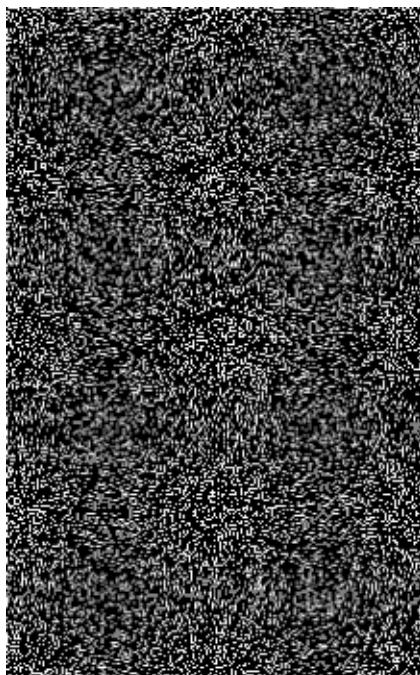
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 102.03, PSNR: 28.04 dB, FOM: 0.04

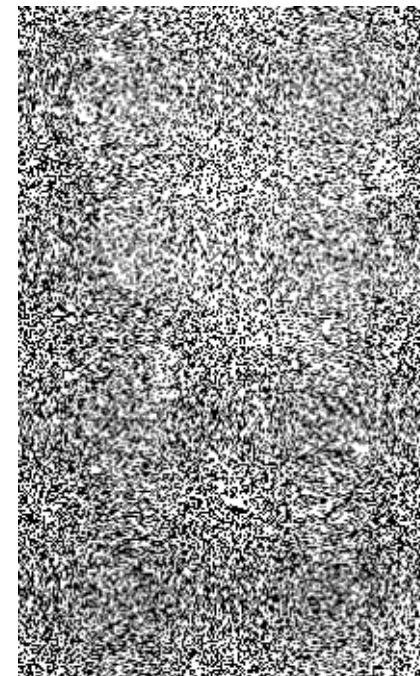
Original Image



Noisy Image



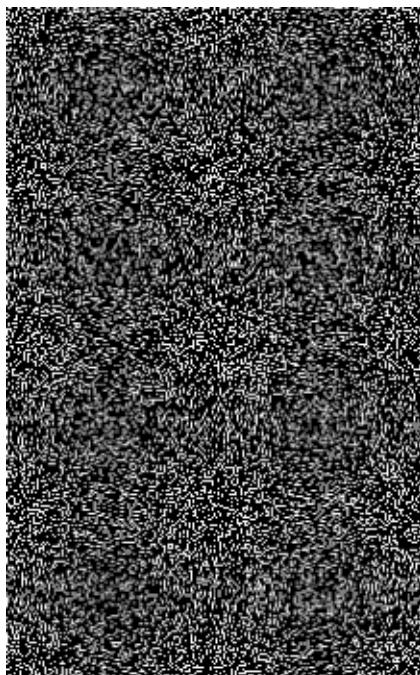
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 101.95, PSNR: 28.05 dB, FOM: 0.04

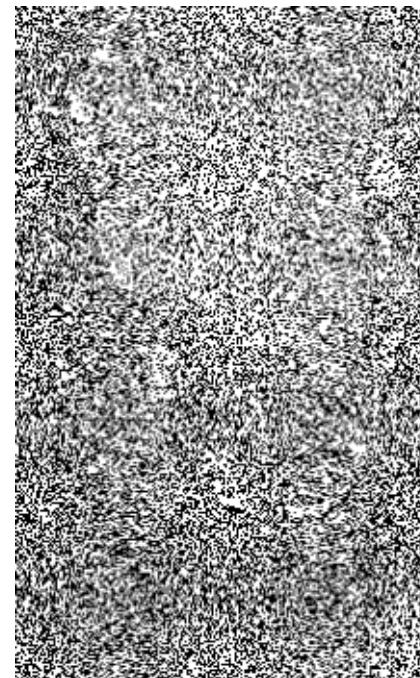
Original Image



Noisy Image



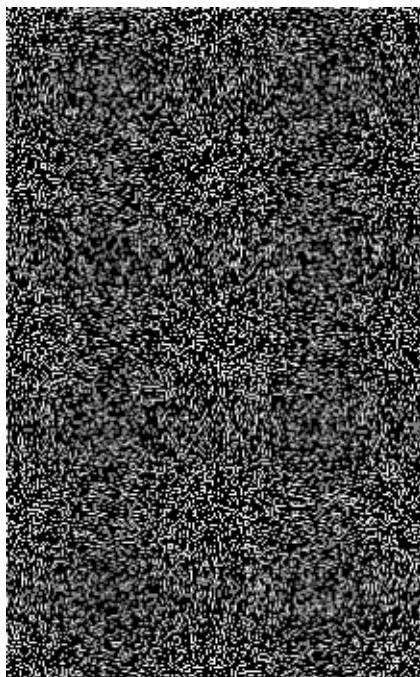
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 107.55, PSNR: 27.81 dB, FOM: 0.04

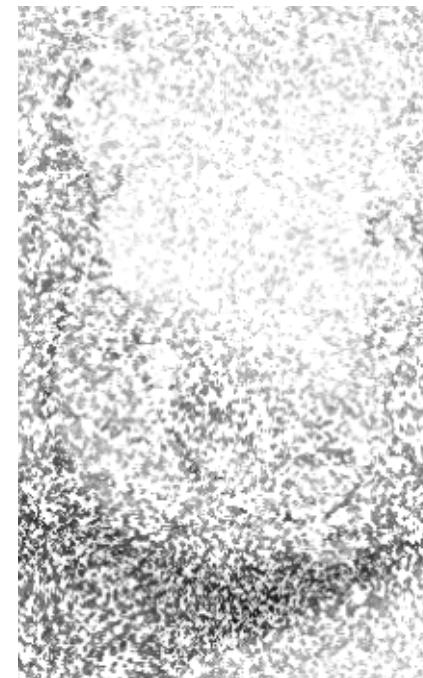
Original Image



Noisy Image



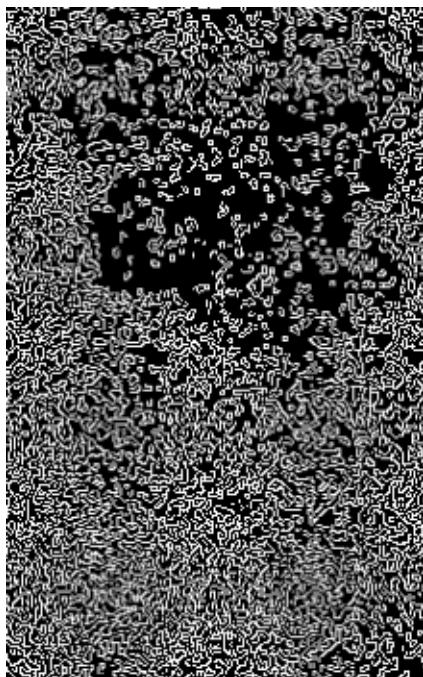
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 9x9  
MSE: 104.34, PSNR: 27.95 dB, FOM: 0.04

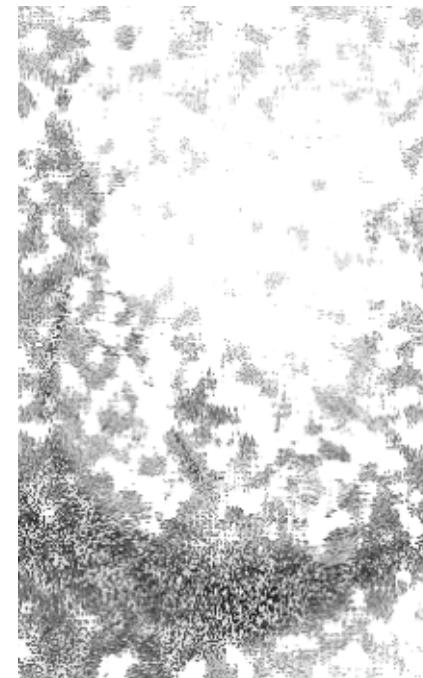
Original Image



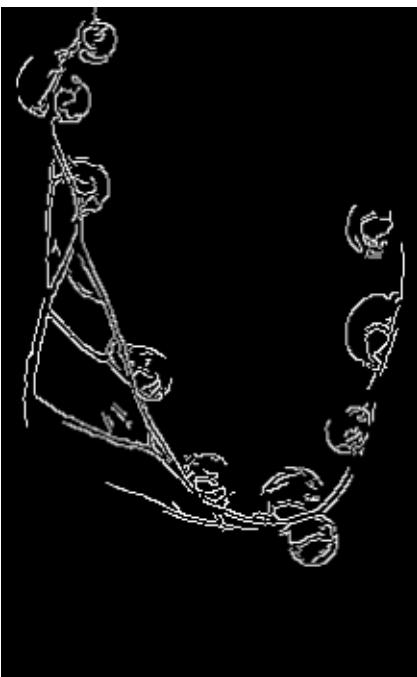
Noisy Image



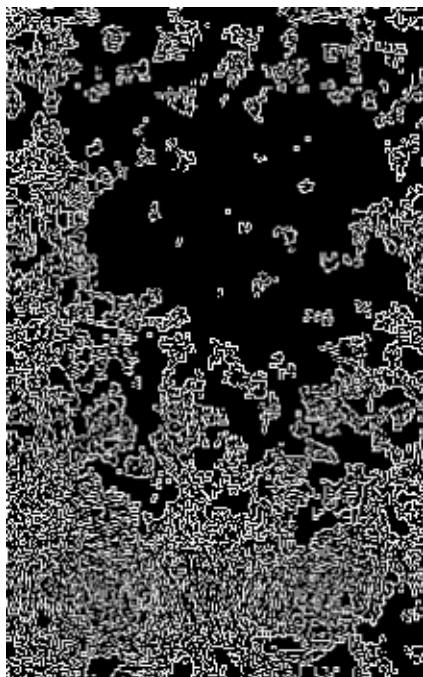
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 15x15  
MSE: 104.87, PSNR: 27.92 dB, FOM: 0.05

Original Image



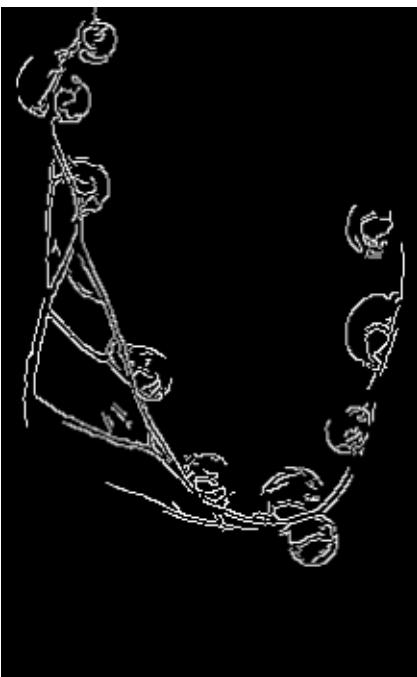
Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 111.68, PSNR: 27.65 dB, FOM: 0.05

Original Image



Noisy Image



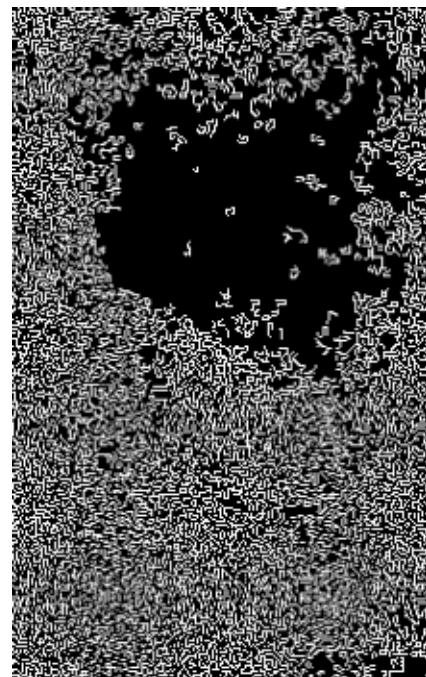
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 111.30, PSNR: 27.67 dB, FOM: 0.06

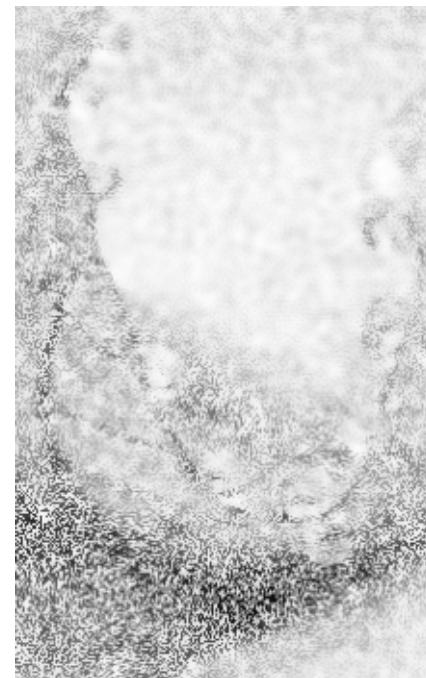
Original Image



Noisy Image



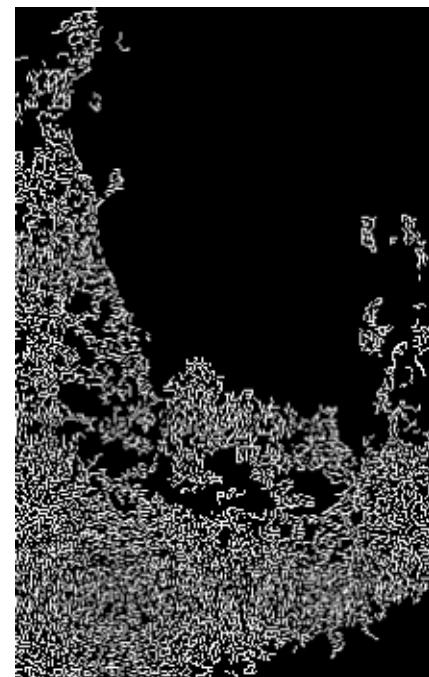
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 111.85, PSNR: 27.64 dB, FOM: 0.06

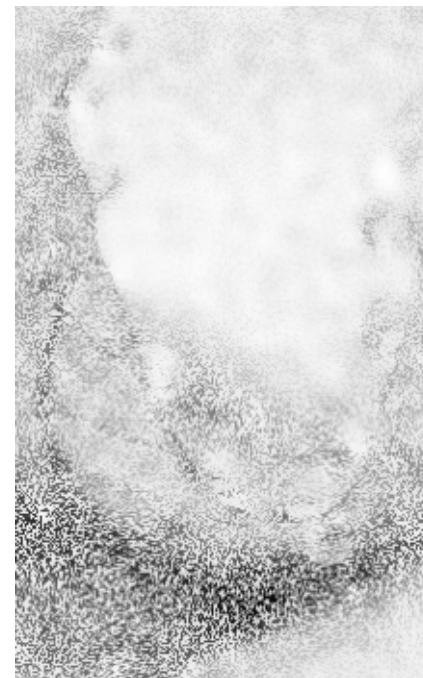
Original Image



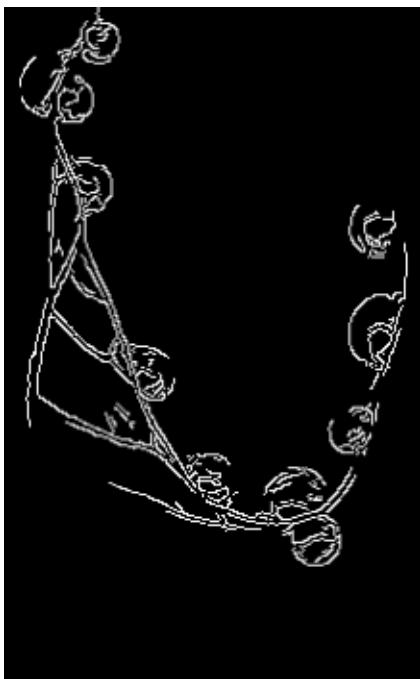
Noisy Image



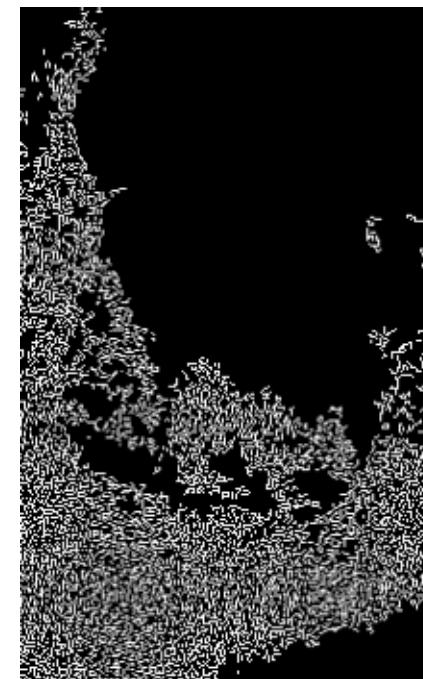
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

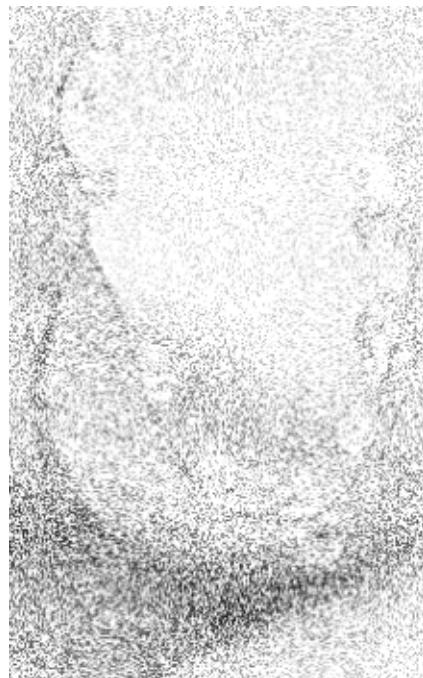


Box Filter - Kernel Size: 3x3  
MSE: 106.47, PSNR: 27.86 dB, FOM: 0.06

Original Image



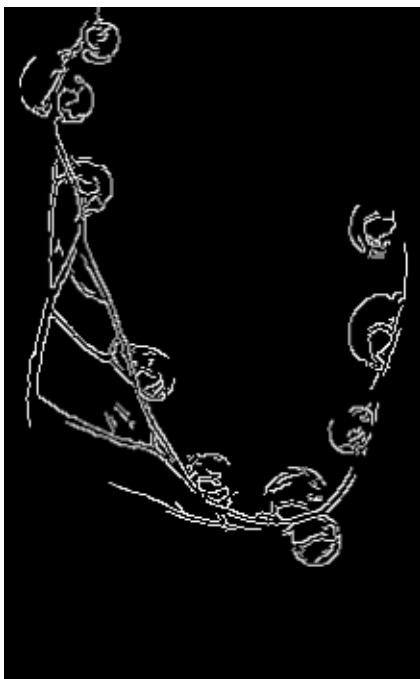
Noisy Image



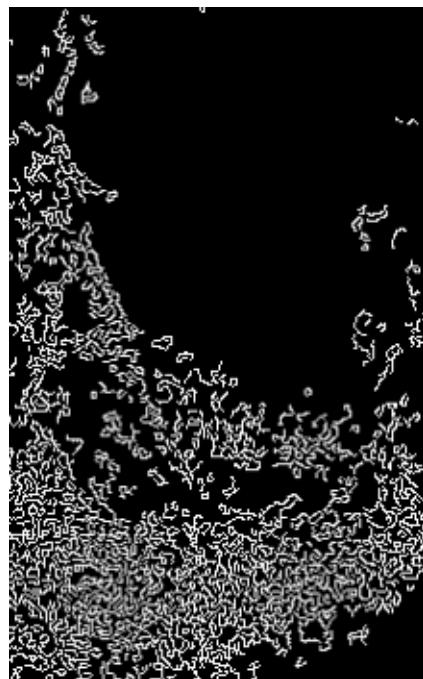
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 103.91, PSNR: 27.96 dB, FOM: 0.00

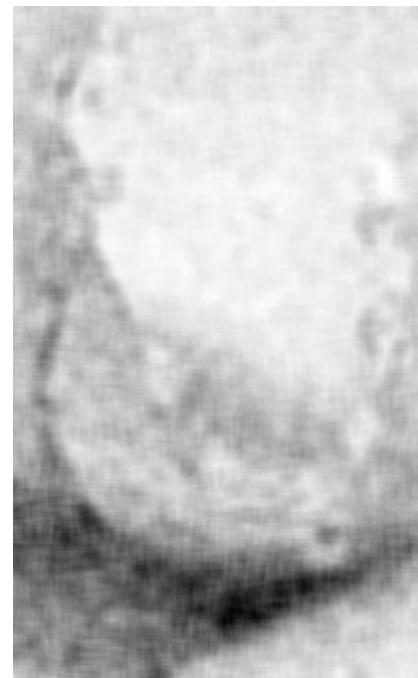
Original Image



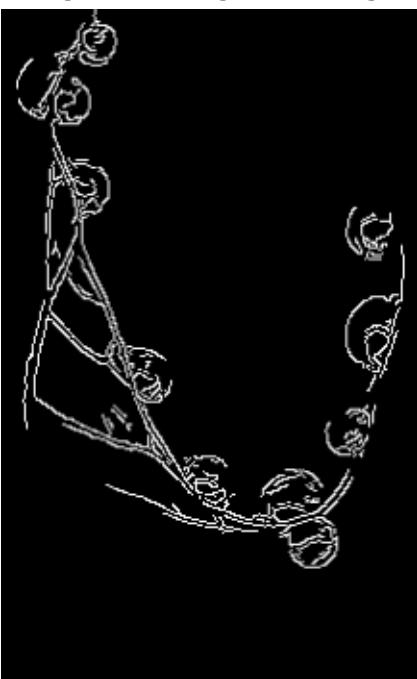
Noisy Image



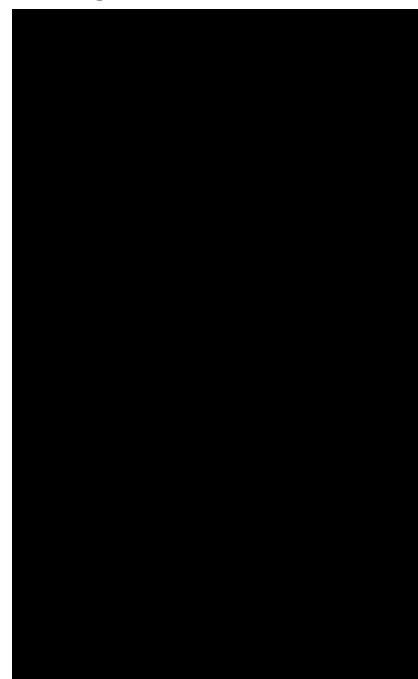
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 104.31, PSNR: 27.95 dB, FOM: 0.00

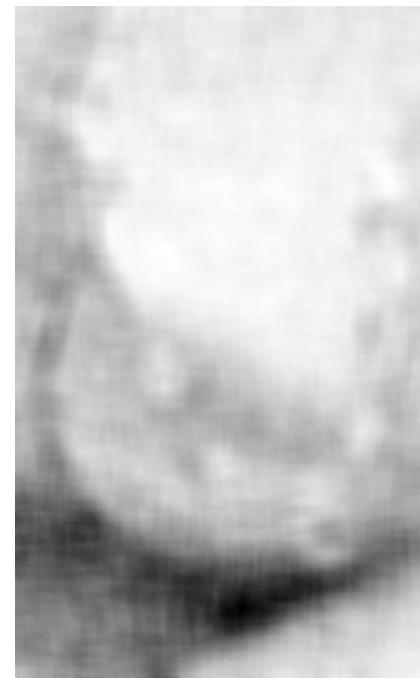
Original Image



Noisy Image



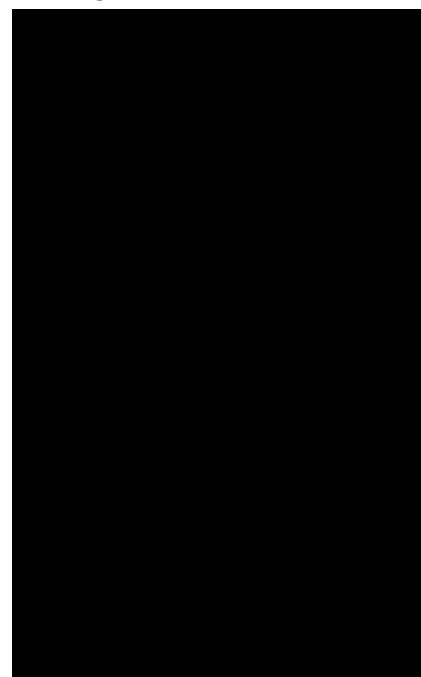
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

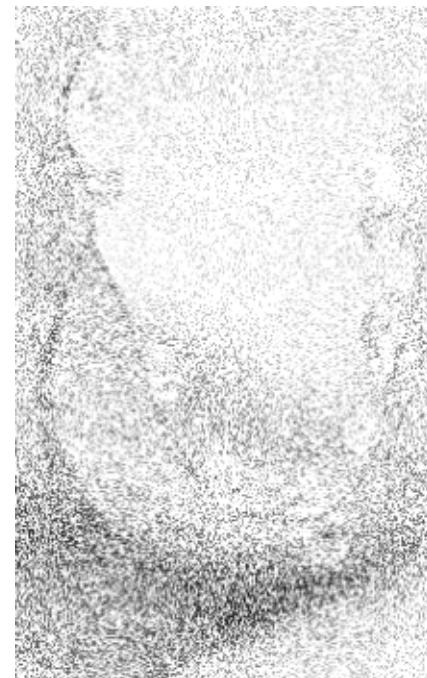


Gaussian Filter - Kernel Size: 3x3  
MSE: 106.25, PSNR: 27.87 dB, FOM: 0.06

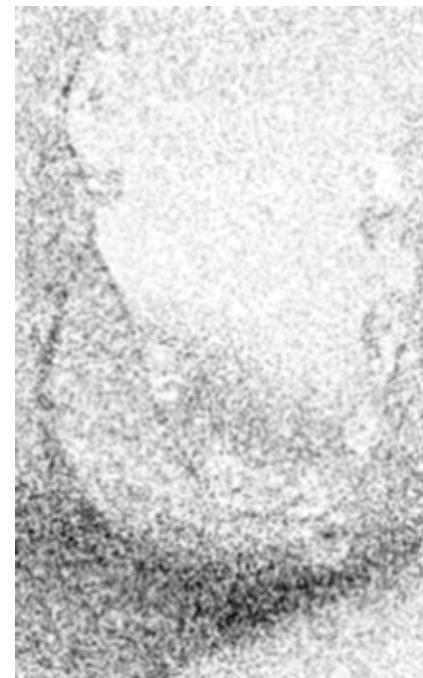
Original Image



Noisy Image



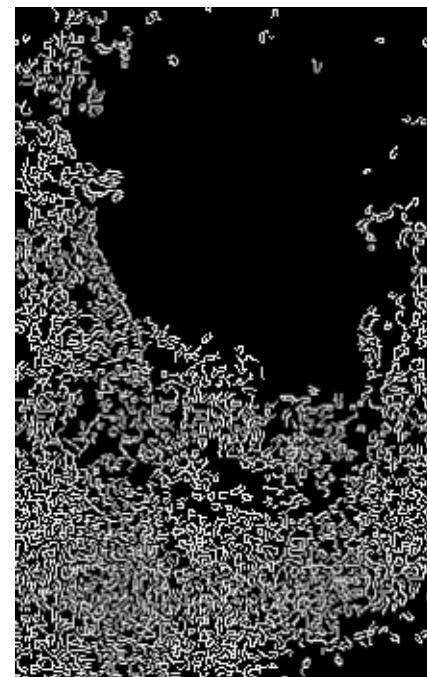
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

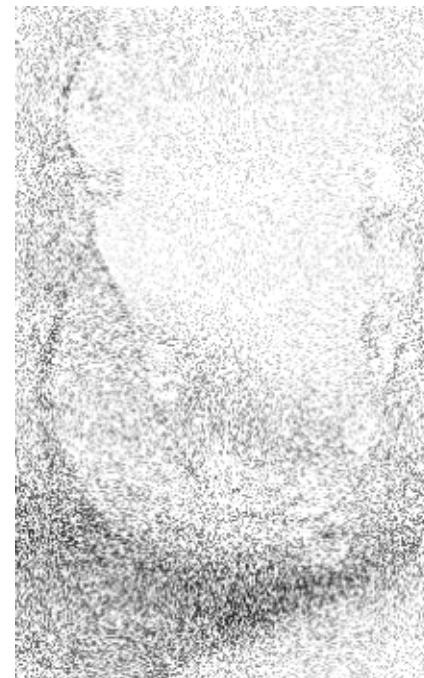


Gaussian Filter - Kernel Size: 9x9  
MSE: 104.99, PSNR: 27.92 dB, FOM: 0.00

Original Image



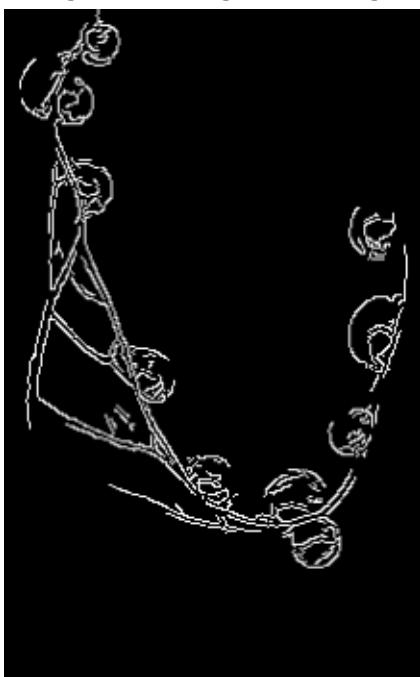
Noisy Image



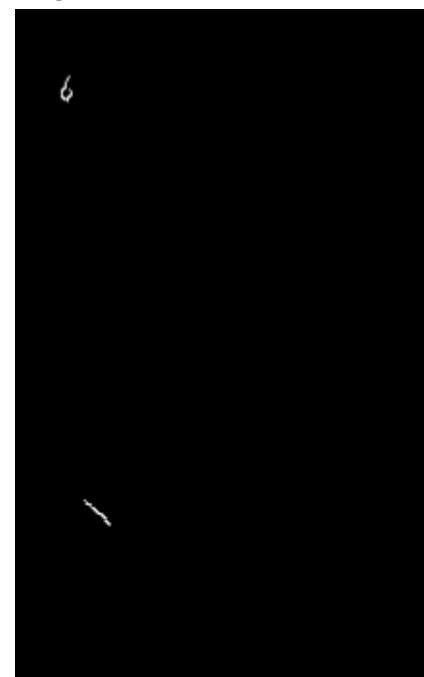
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 104.28, PSNR: 27.95 dB, FOM: 0.00

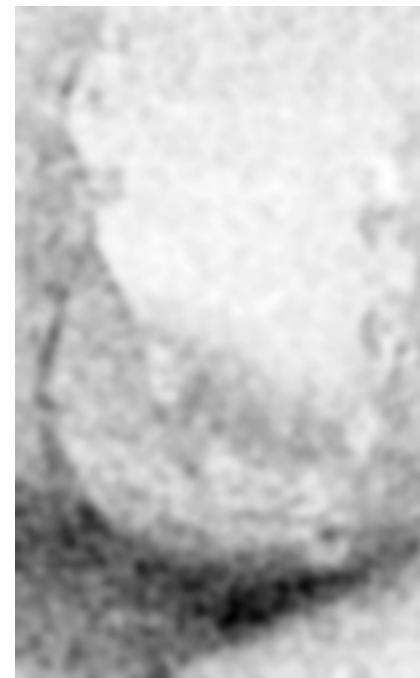
Original Image



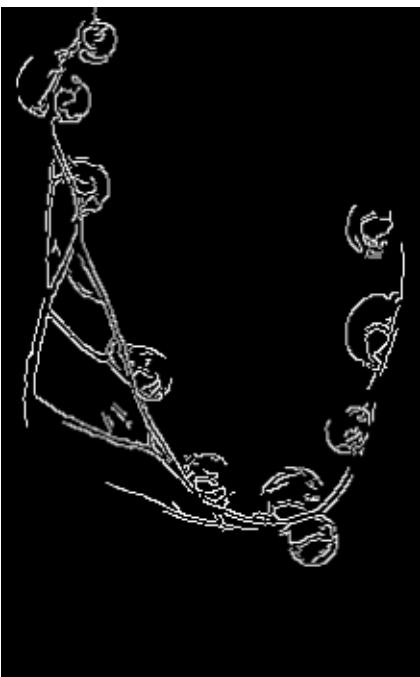
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 104.08, PSNR: 27.96 dB, FOM: 0.05

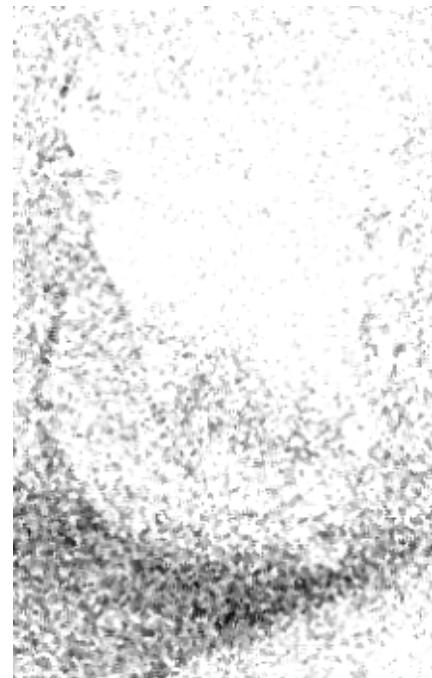
Original Image



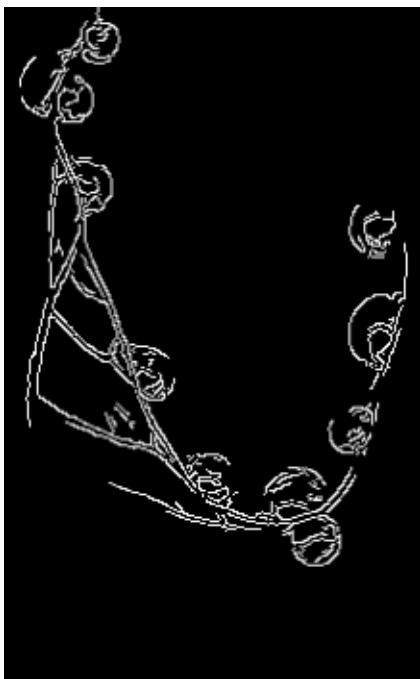
Noisy Image



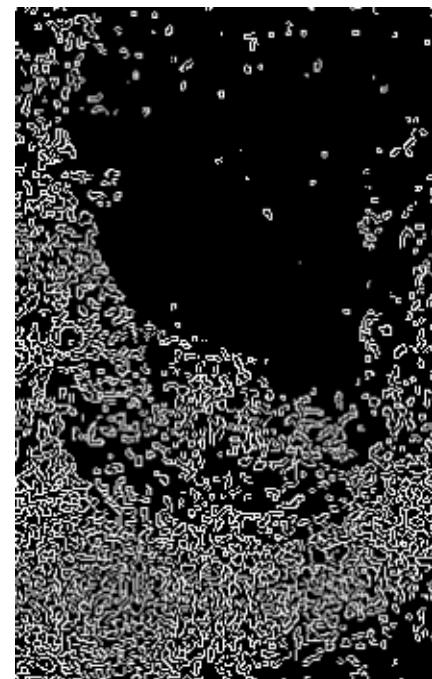
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 95.93, PSNR: 28.31 dB, FOM: 0.01

Original Image



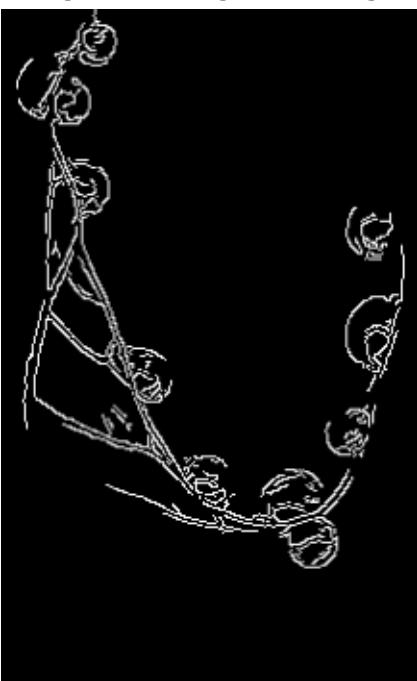
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 91.82, PSNR: 28.50 dB, FOM: 0.00

Original Image



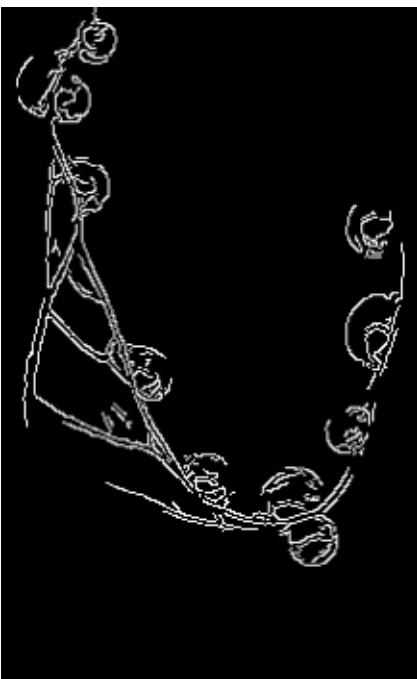
Noisy Image



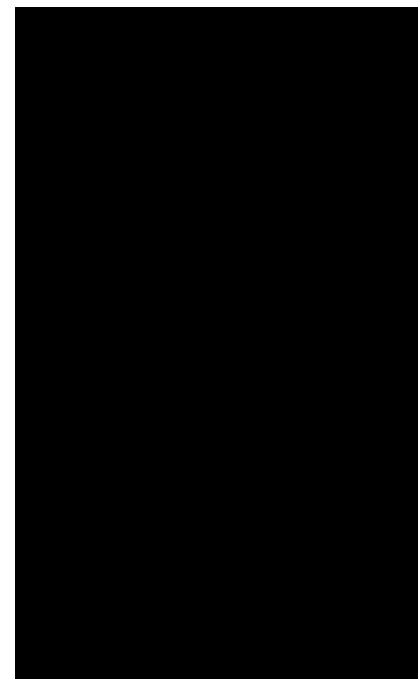
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 102.55, PSNR: 28.02 dB, FOM: 0.04

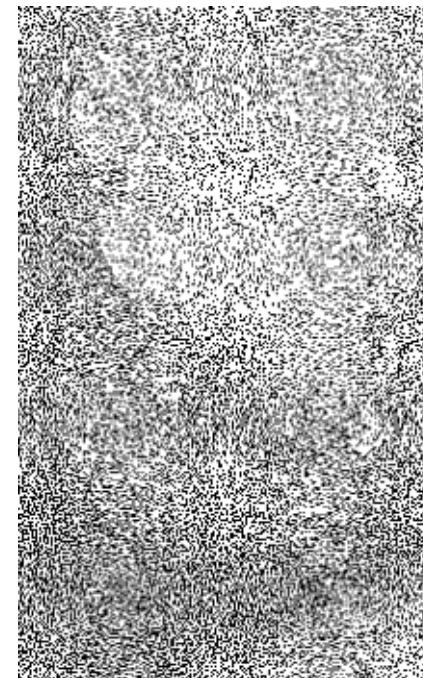
Original Image



Noisy Image



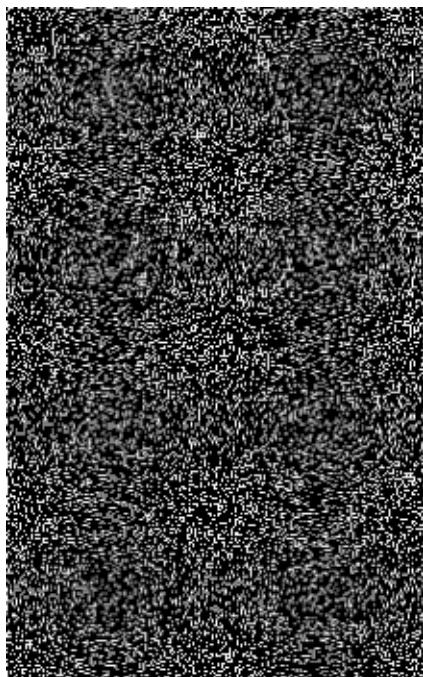
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 102.47, PSNR: 28.02 dB, FOM: 0.04

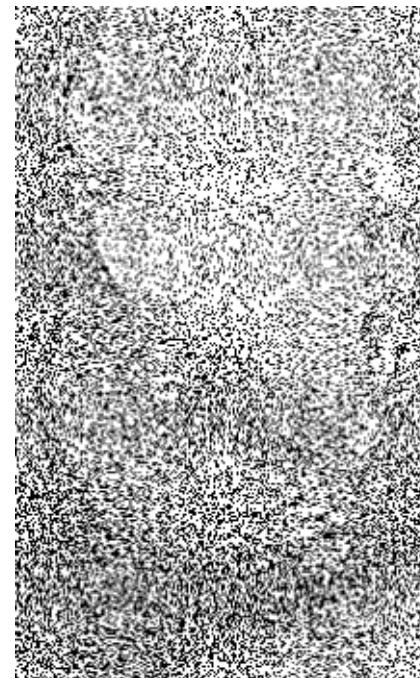
Original Image



Noisy Image



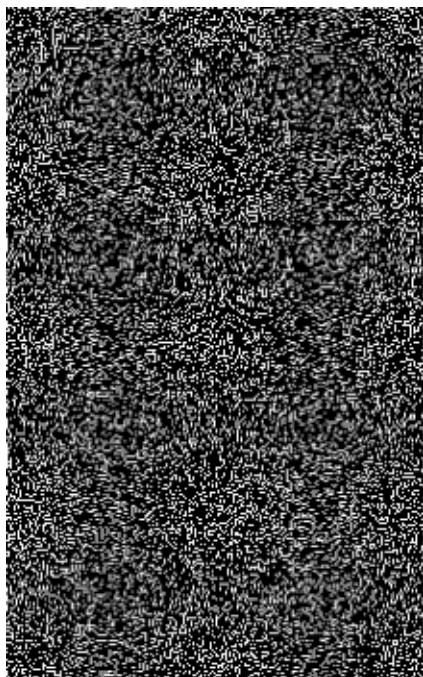
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

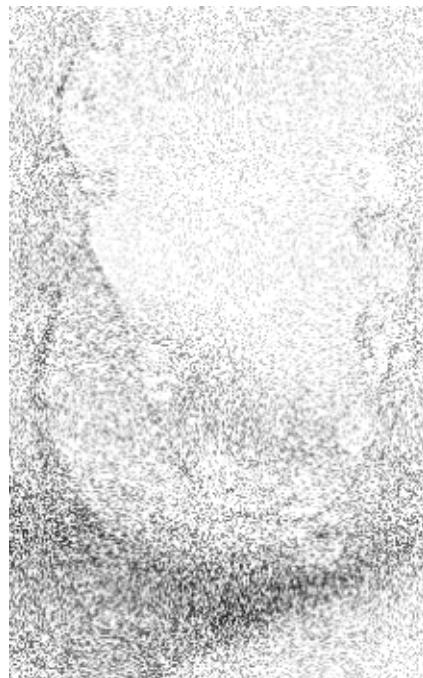


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 102.42, PSNR: 28.03 dB, FOM: 0.04

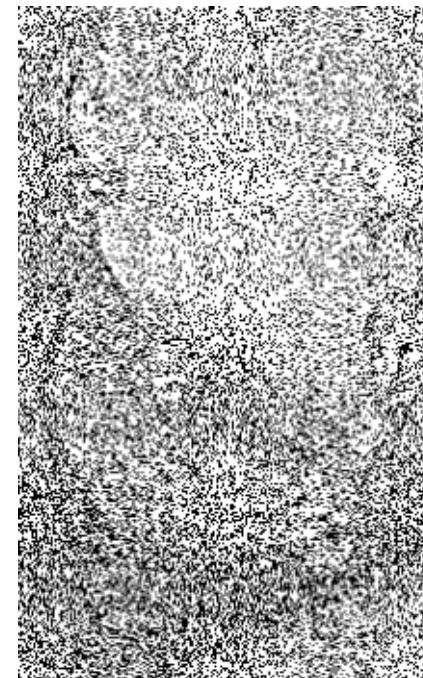
Original Image



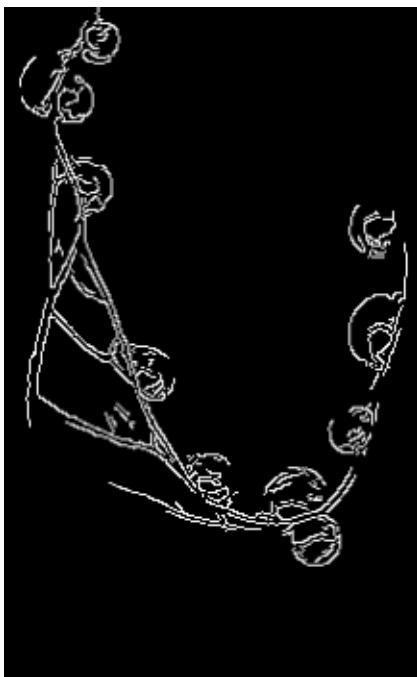
Noisy Image



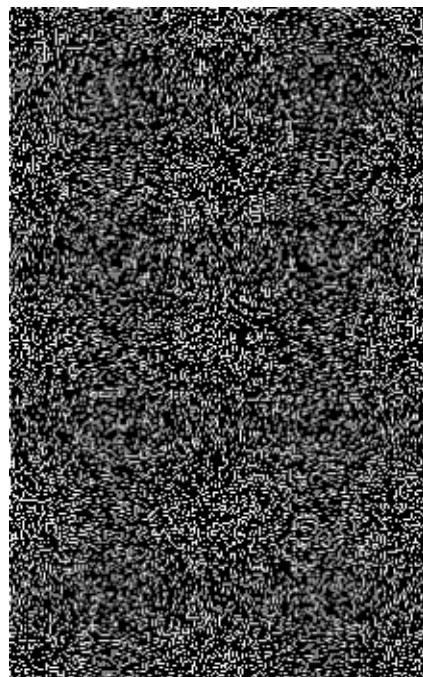
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 104.96, PSNR: 27.92 dB, FOM: 0.05

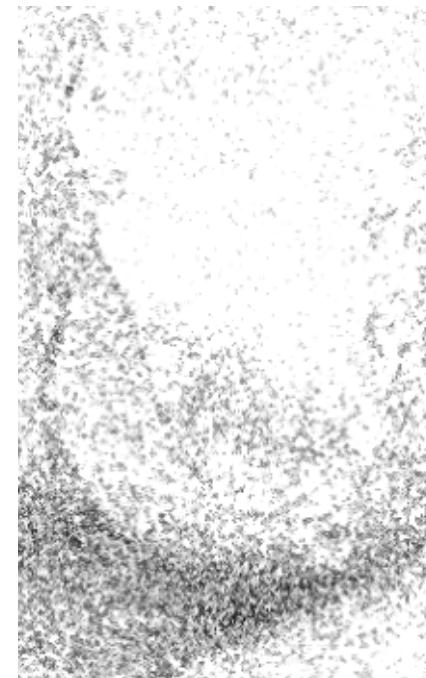
Original Image



Noisy Image



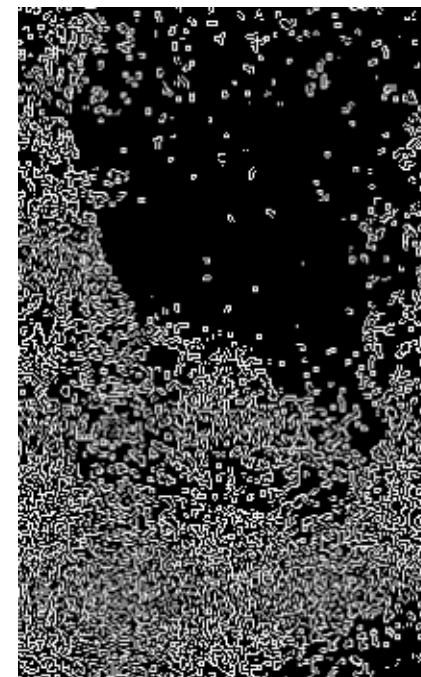
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 9x9  
MSE: 102.36, PSNR: 28.03 dB, FOM: 0.04

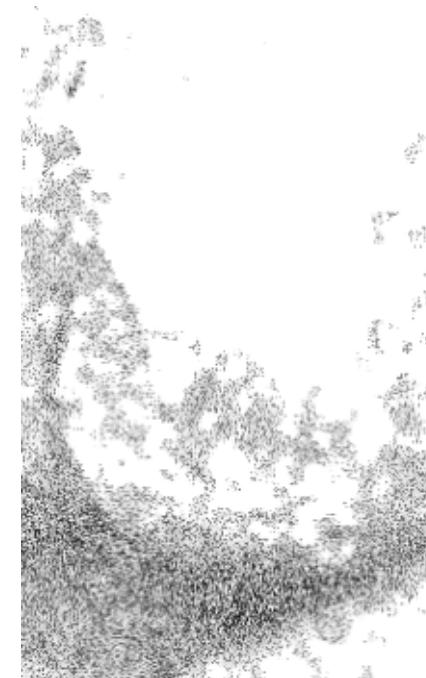
Original Image



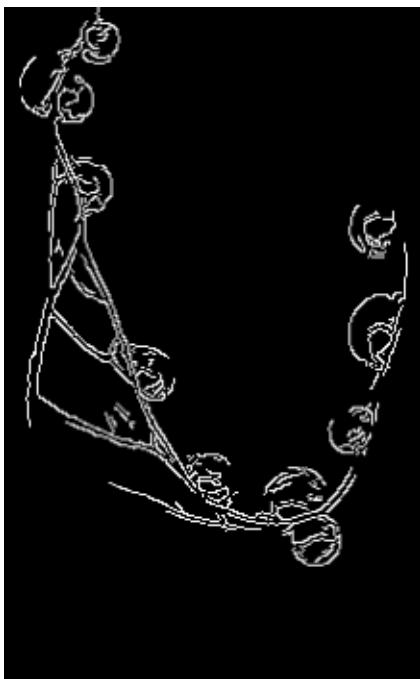
Noisy Image



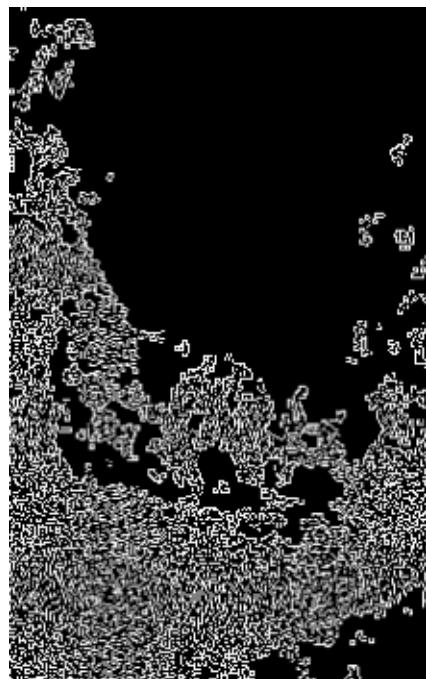
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 15x15  
MSE: 101.26, PSNR: 28.08 dB, FOM: 0.04

Original Image



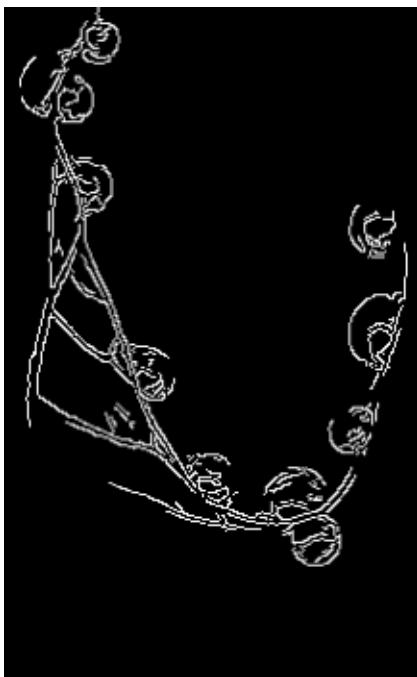
Noisy Image



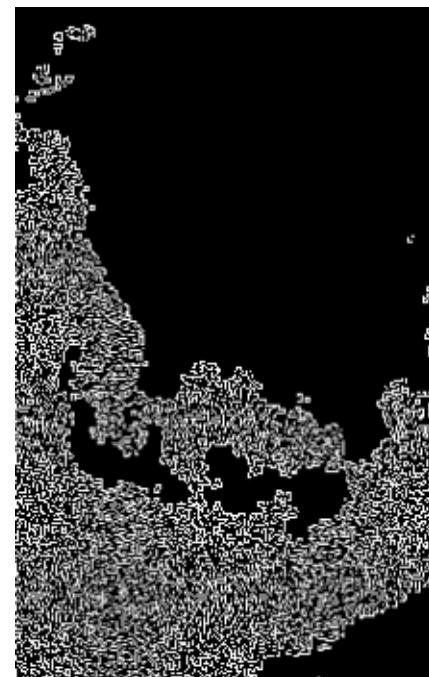
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 107.30, PSNR: 27.82 dB, FOM: 0.06

Original Image



Noisy Image



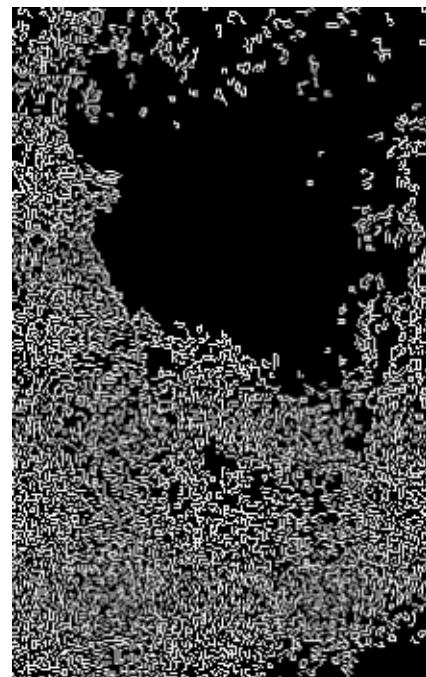
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 105.80, PSNR: 27.89 dB, FOM: 0.04

Original Image



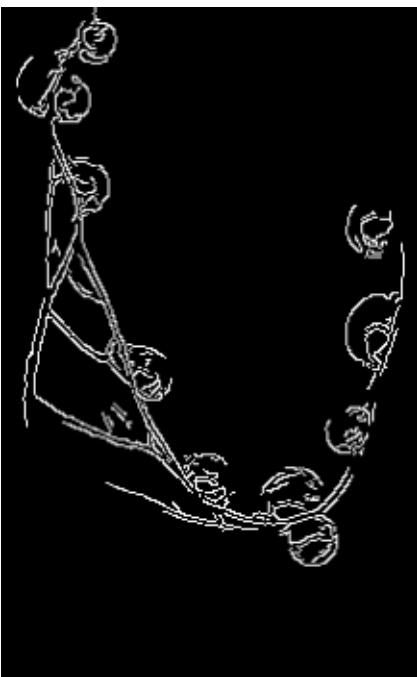
Noisy Image



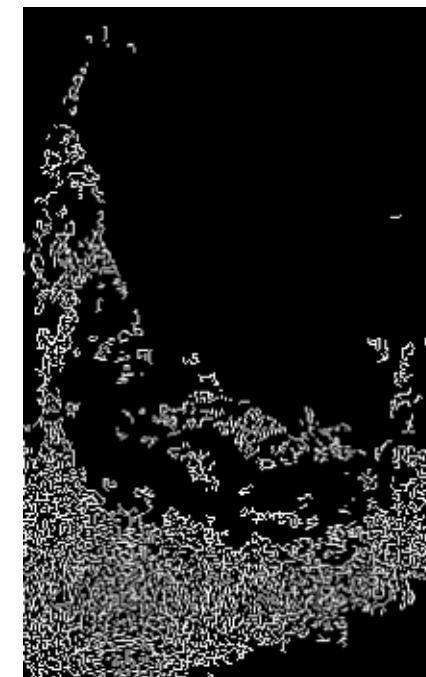
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 105.55, PSNR: 27.90 dB, FOM: 0.04

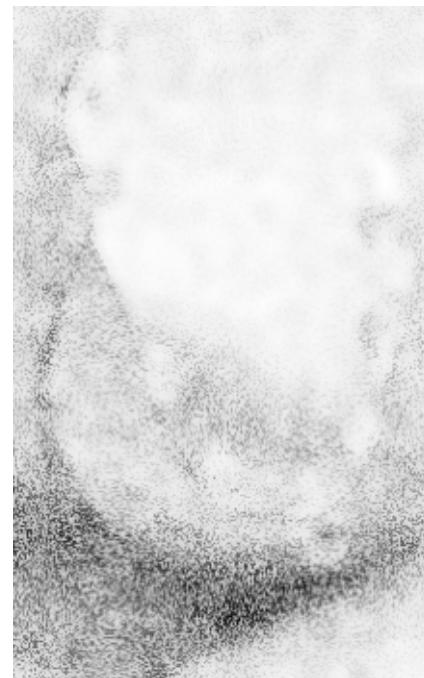
Original Image



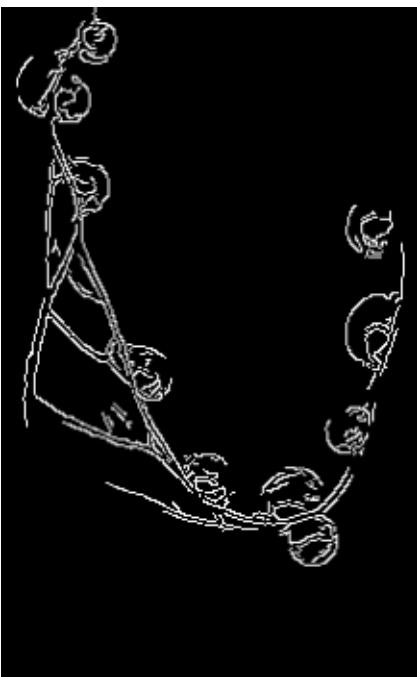
Noisy Image



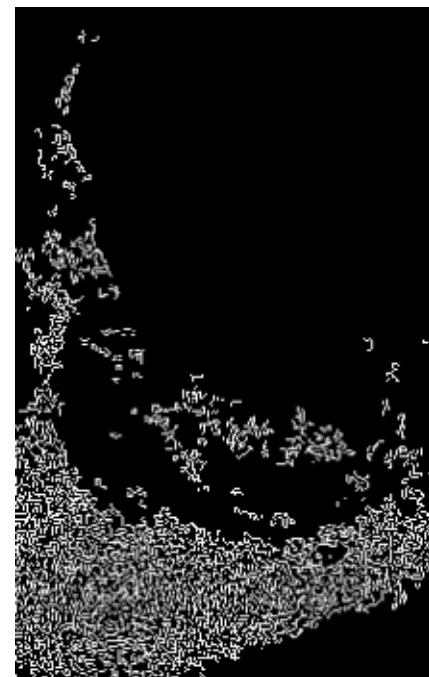
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 112.17, PSNR: 27.63 dB, FOM: 0.01

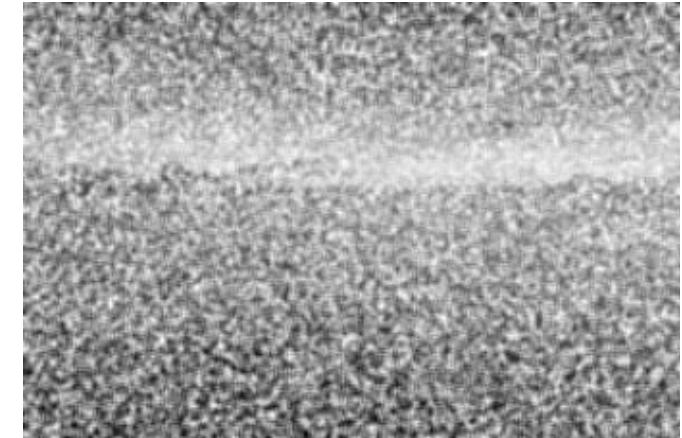
Original Image



Noisy Image



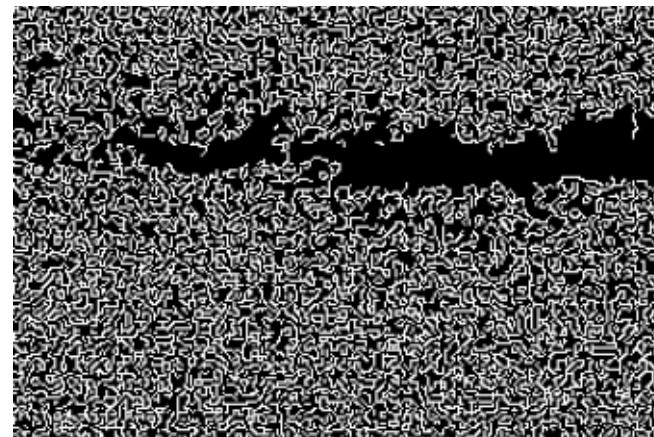
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 115.95, PSNR: 27.49 dB, FOM: 0.00

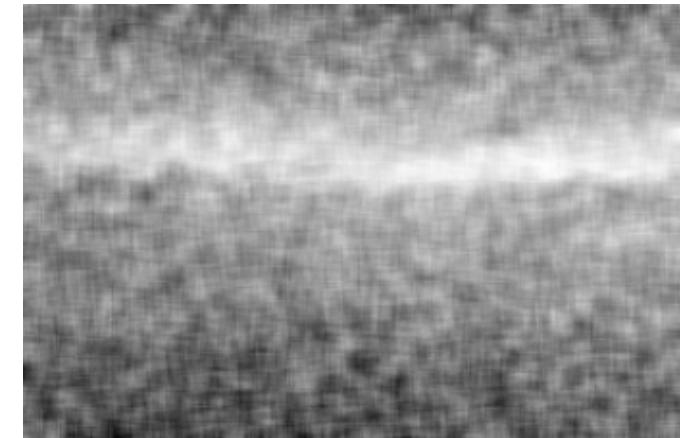
Original Image



Noisy Image



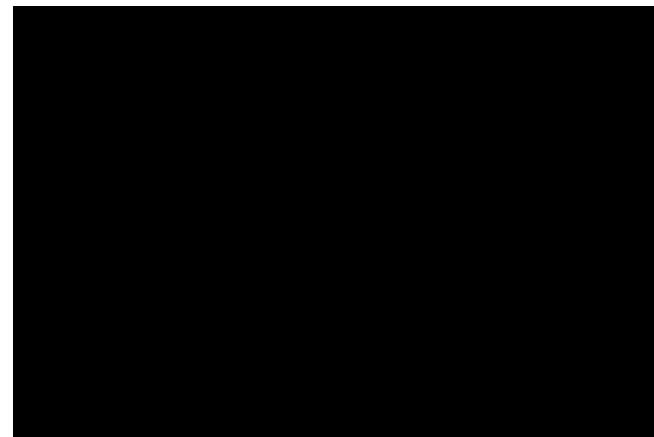
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 116.69, PSNR: 27.46 dB, FOM: 0.00

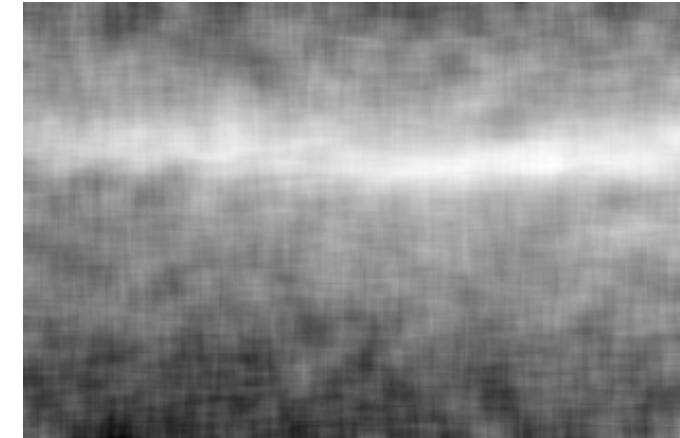
Original Image



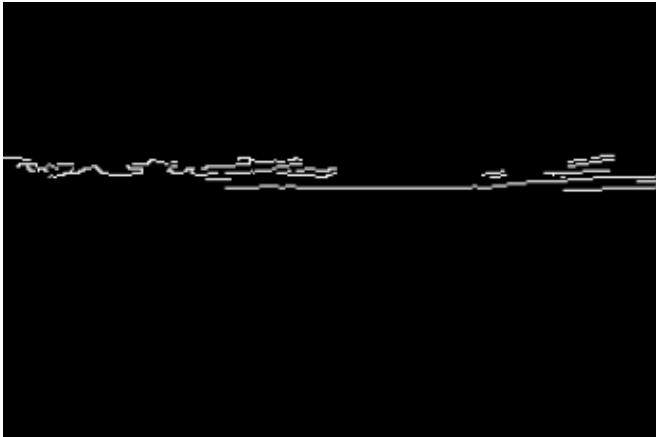
Noisy Image



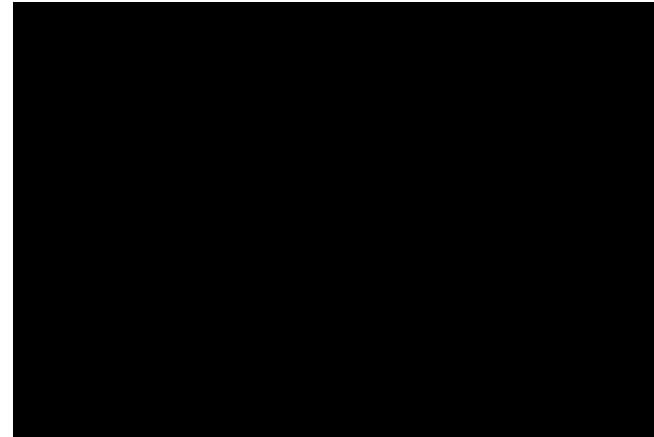
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 111.71, PSNR: 27.65 dB, FOM: 0.01

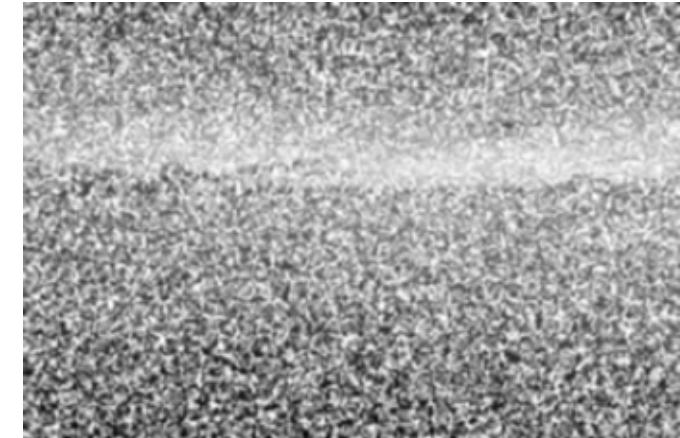
Original Image



Noisy Image



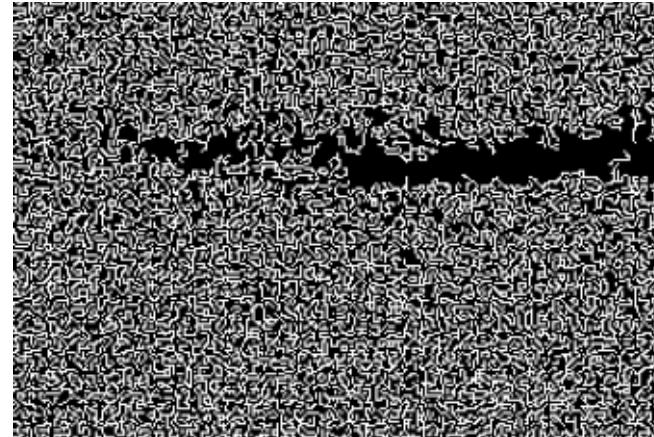
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 9x9  
MSE: 115.38, PSNR: 27.51 dB, FOM: 0.00

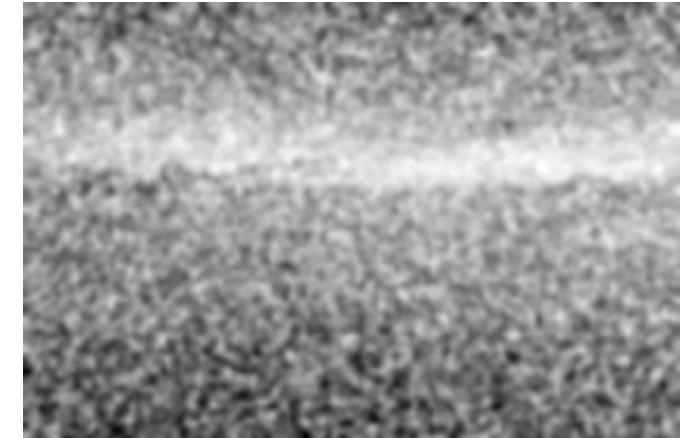
Original Image



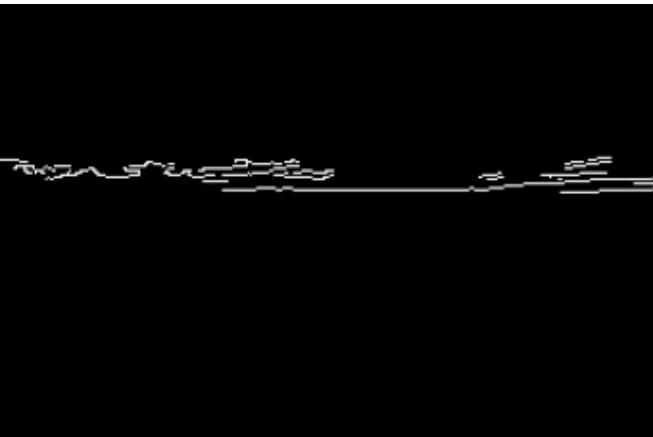
Noisy Image



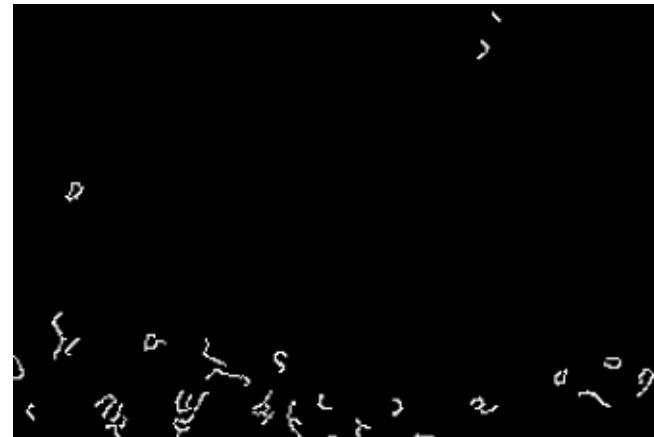
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 116.47, PSNR: 27.47 dB, FOM: 0.00

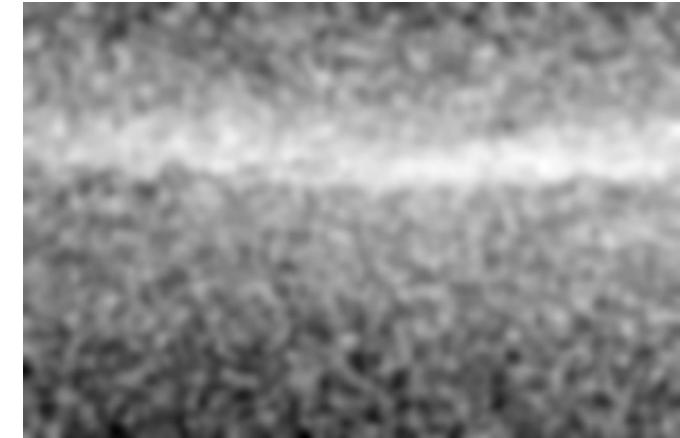
Original Image



Noisy Image



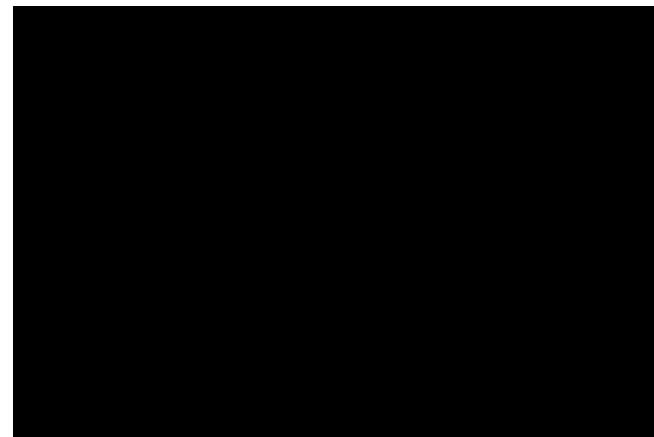
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 100.82, PSNR: 28.10 dB, FOM: 0.01

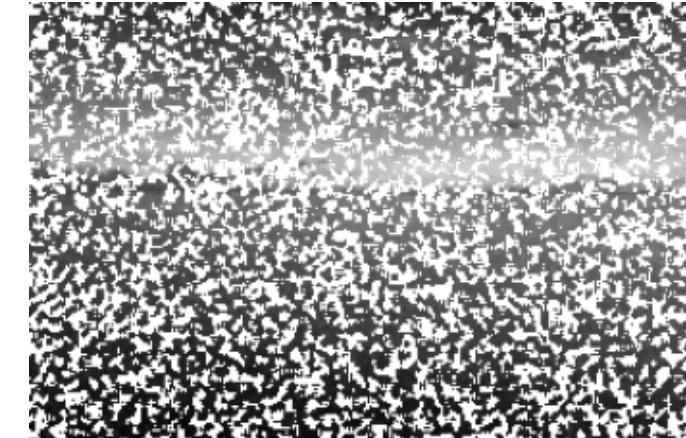
Original Image



Noisy Image



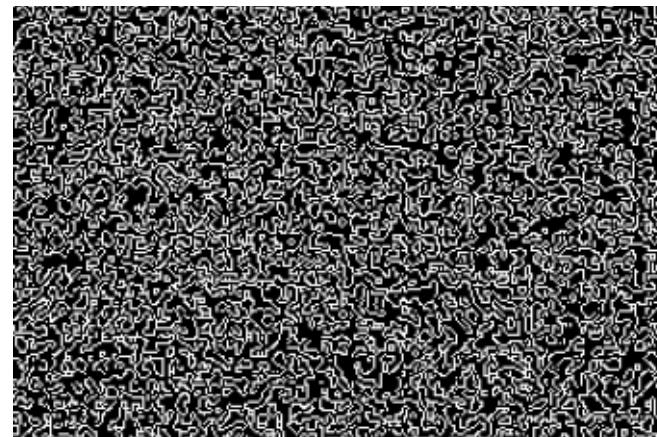
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 117.15, PSNR: 27.44 dB, FOM: 0.01

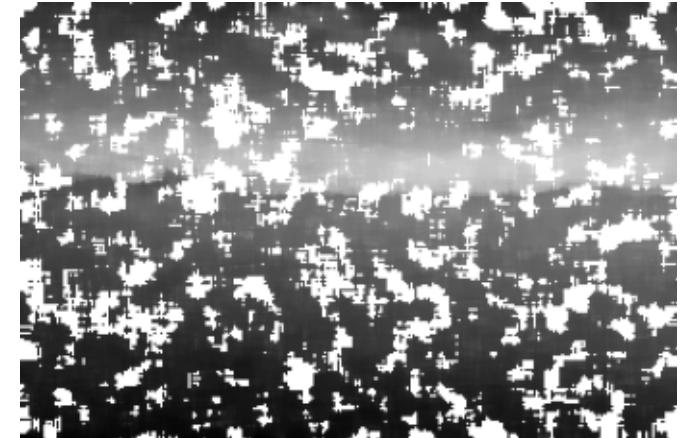
Original Image



Noisy Image



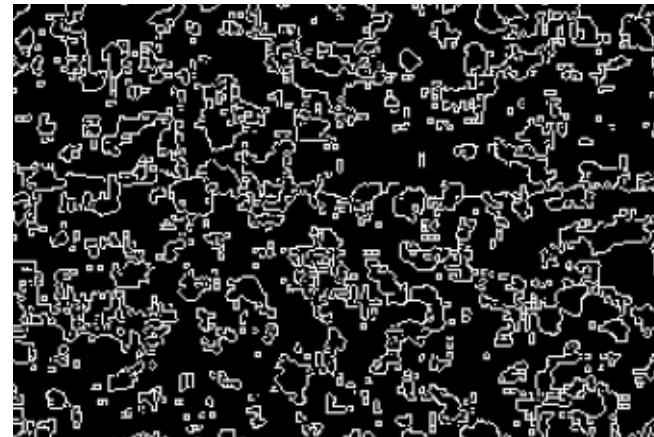
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 114.12, PSNR: 27.56 dB, FOM: 0.01

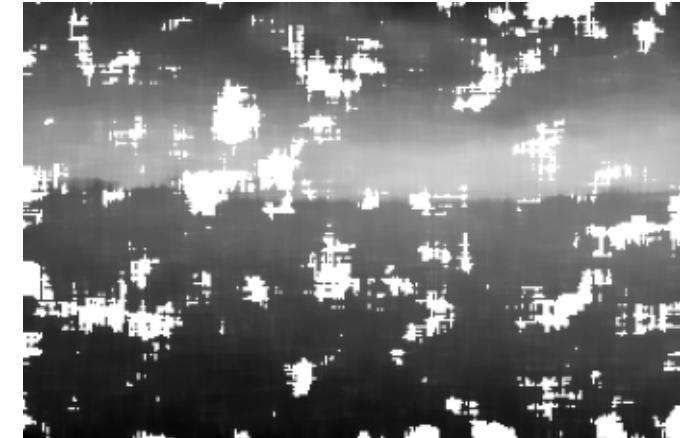
Original Image



Noisy Image



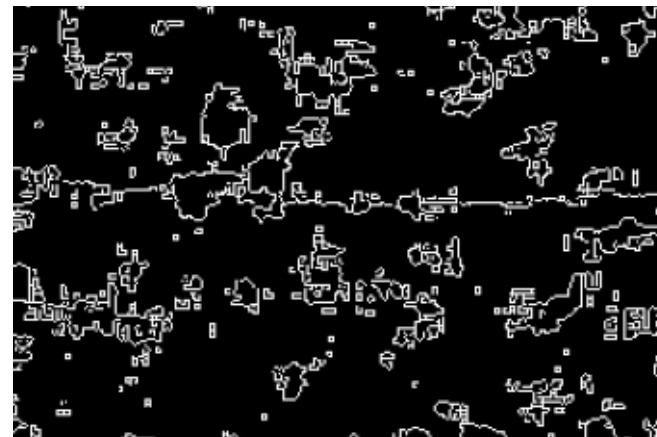
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 105.73, PSNR: 27.89 dB, FOM: 0.01

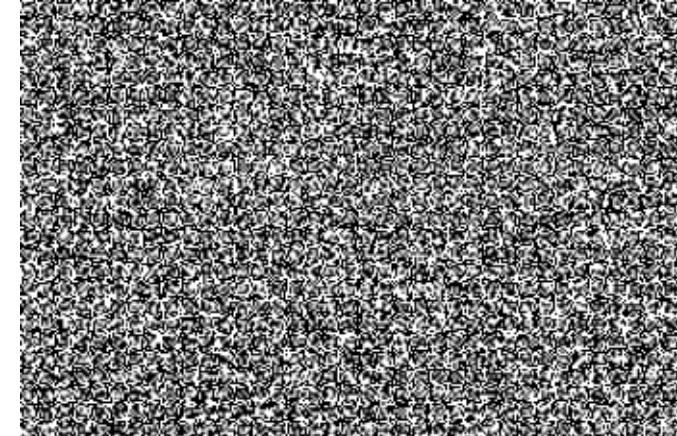
Original Image



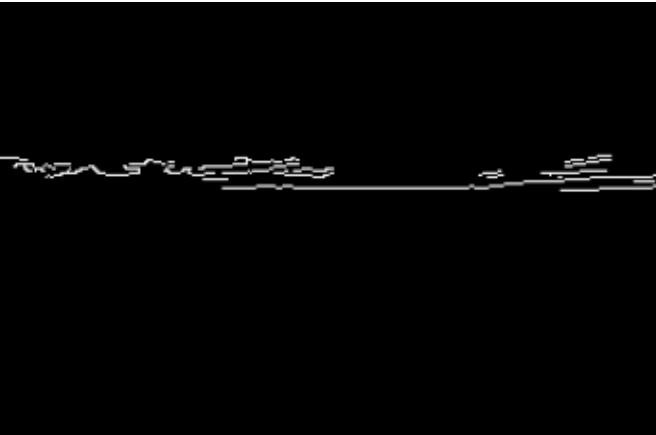
Noisy Image



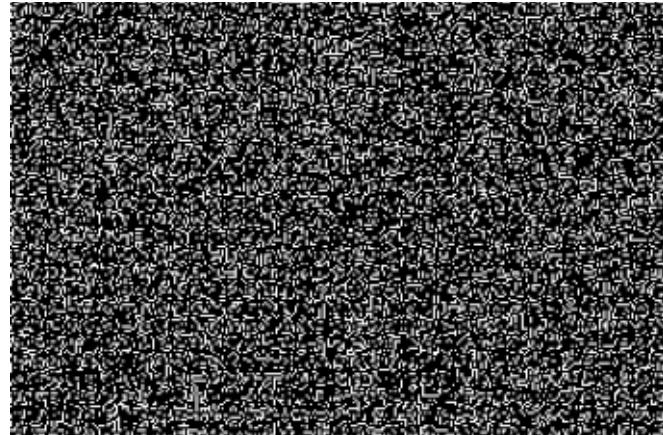
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 105.74, PSNR: 27.89 dB, FOM: 0.01

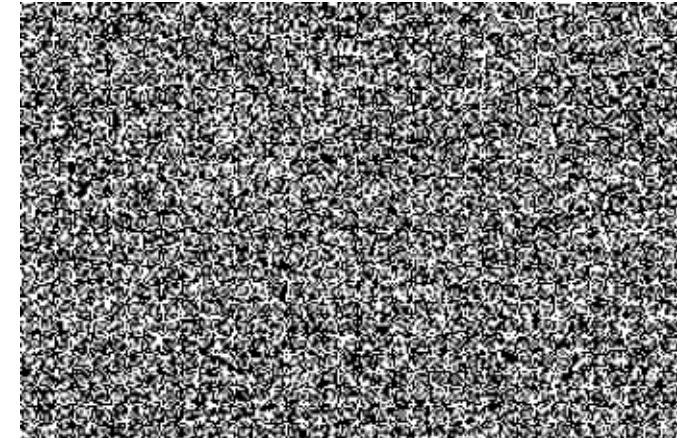
Original Image



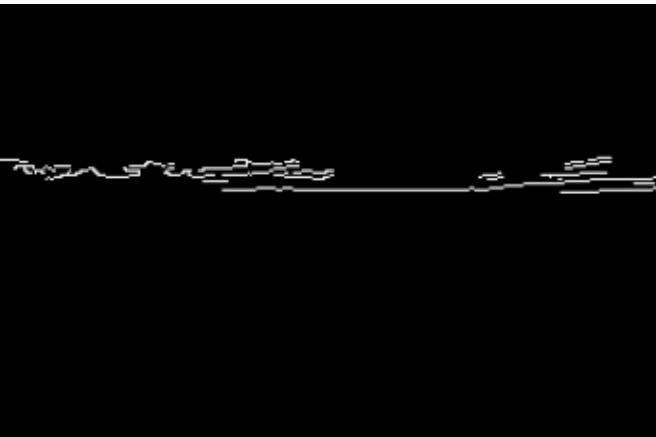
Noisy Image



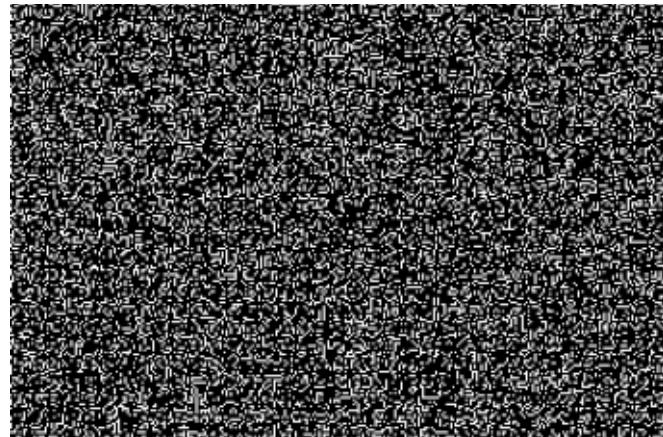
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 105.73, PSNR: 27.89 dB, FOM: 0.01

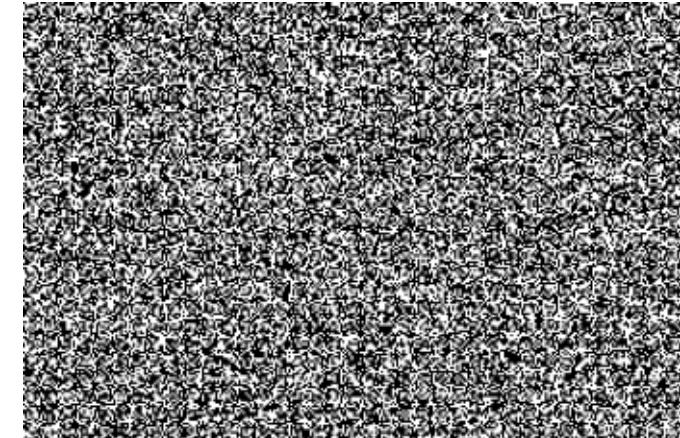
Original Image



Noisy Image



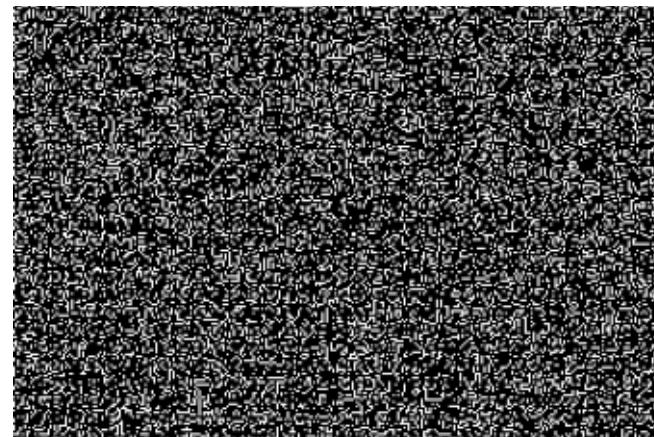
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 91.39, PSNR: 28.52 dB, FOM: 0.01

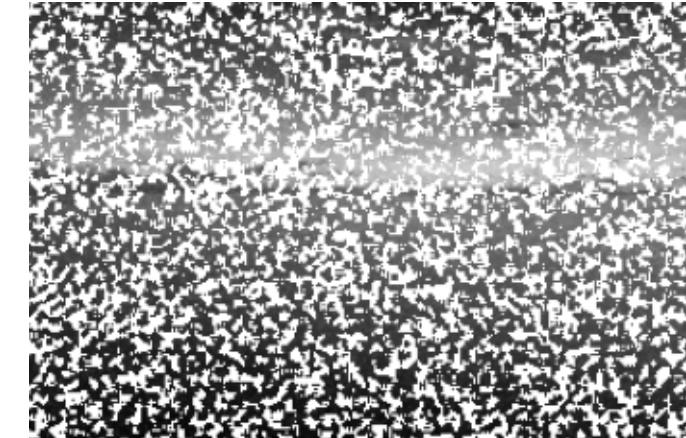
Original Image



Noisy Image



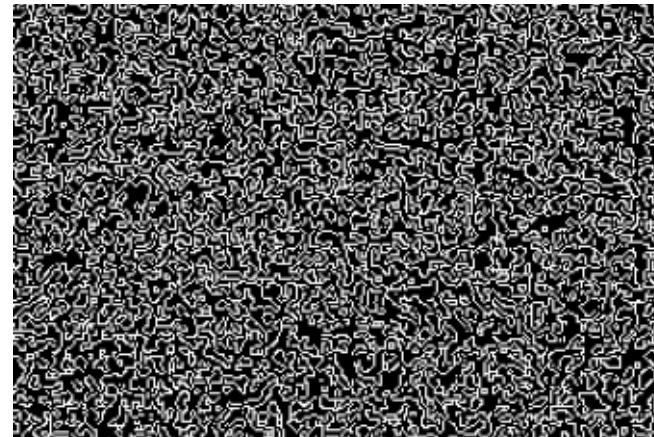
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 9x9  
MSE: 88.77, PSNR: 28.65 dB, FOM: 0.02

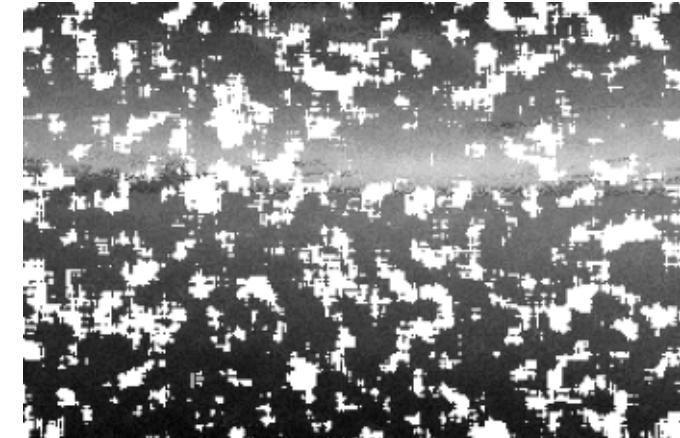
Original Image



Noisy Image



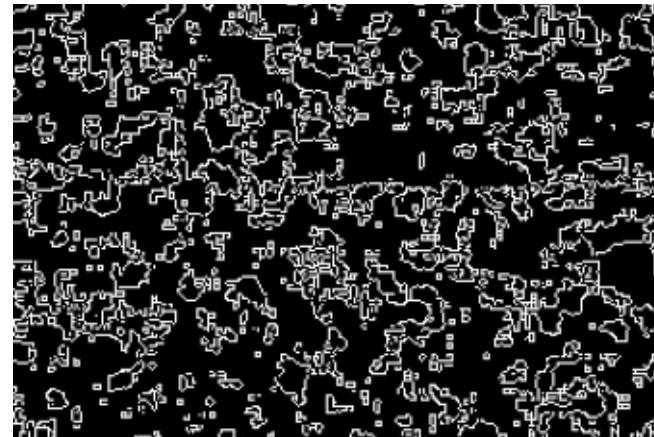
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 15x15  
MSE: 84.52, PSNR: 28.86 dB, FOM: 0.03

Original Image



Noisy Image



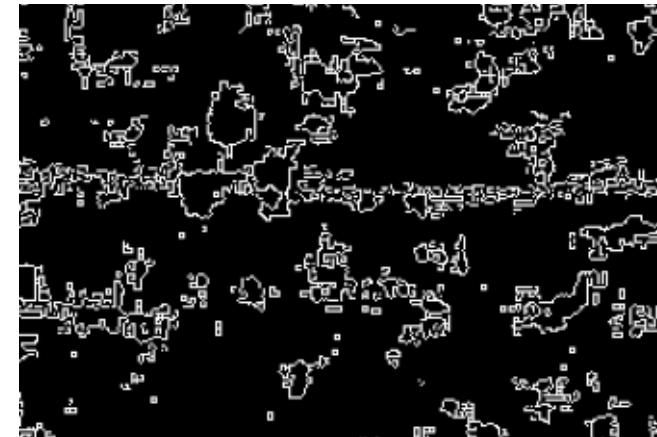
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

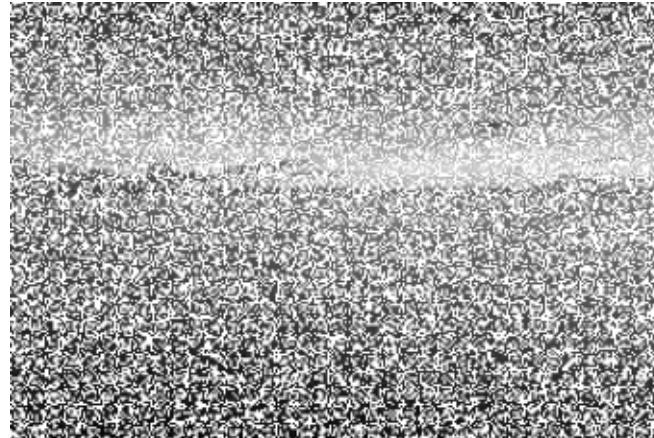


Bilateral Filter - Kernel Size: 3x3  
MSE: 106.07, PSNR: 27.87 dB, FOM: 0.01

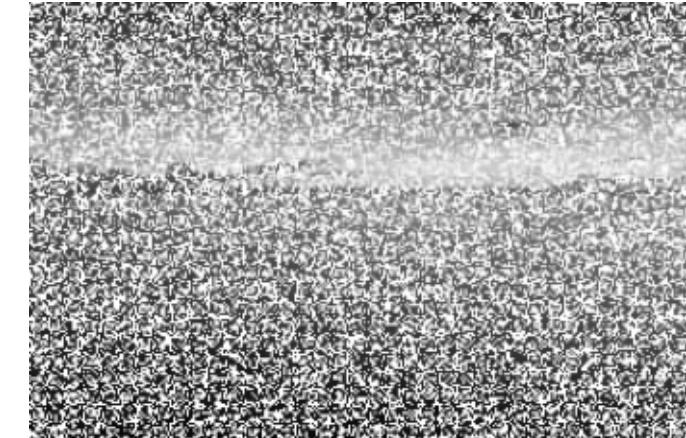
Original Image



Noisy Image



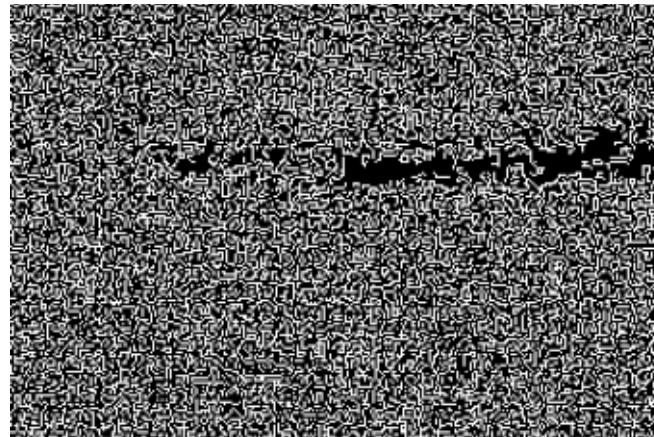
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 112.42, PSNR: 27.62 dB, FOM: 0.01

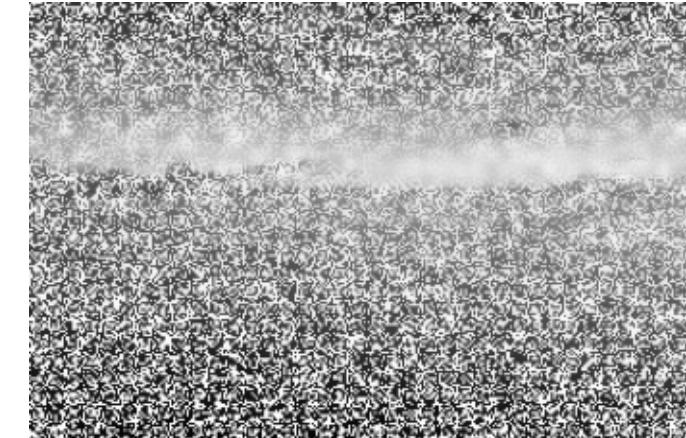
Original Image



Noisy Image



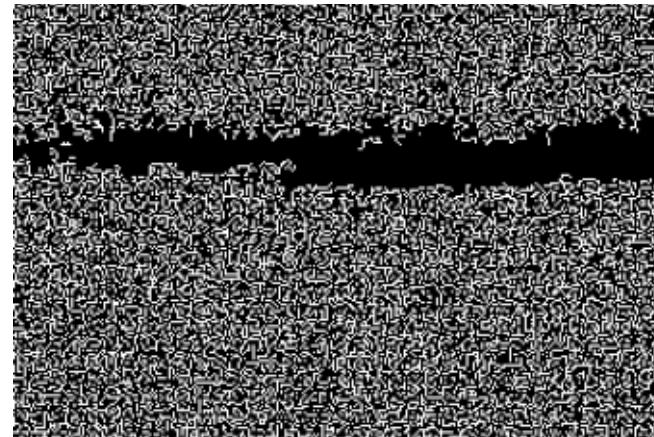
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 112.28, PSNR: 27.63 dB, FOM: 0.01

Original Image



Noisy Image



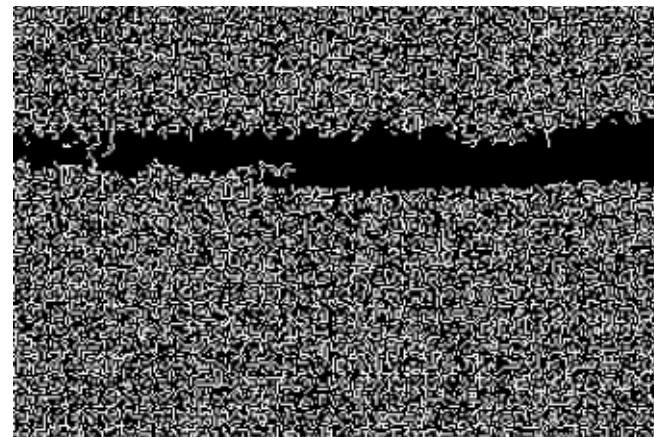
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 108.26, PSNR: 27.79 dB, FOM: 0.01

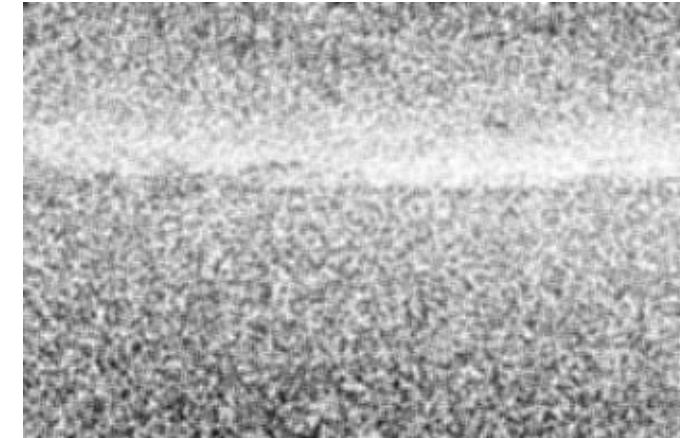
Original Image



Noisy Image



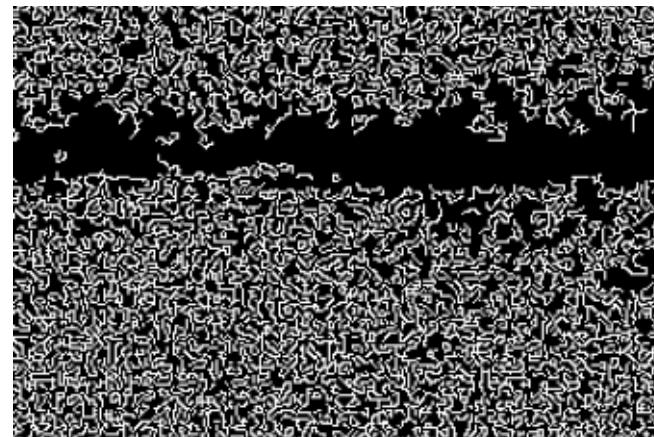
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 113.96, PSNR: 27.56 dB, FOM: 0.00

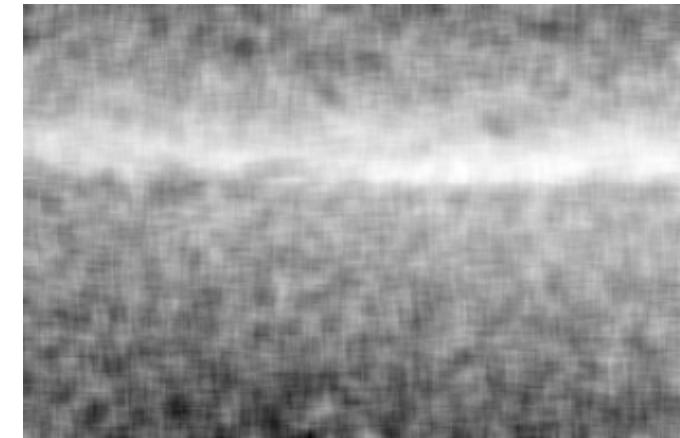
Original Image



Noisy Image



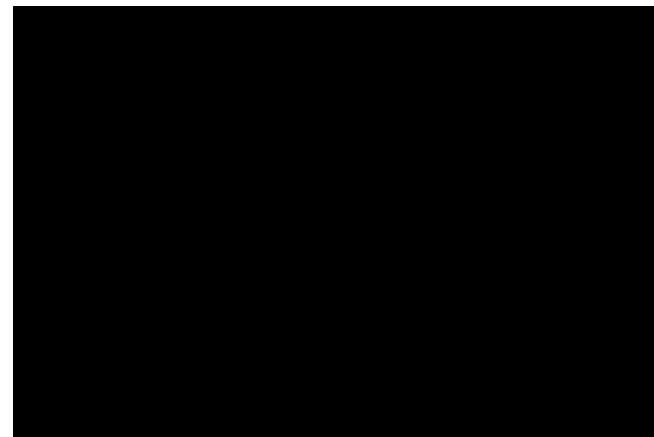
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

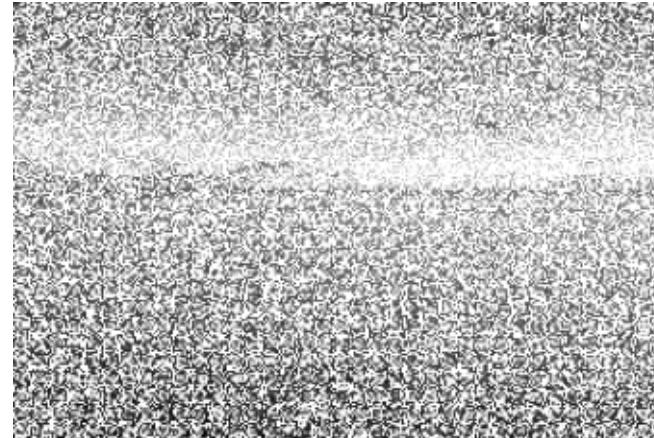


Box Filter - Kernel Size: 15x15  
MSE: 114.86, PSNR: 27.53 dB, FOM: 0.00

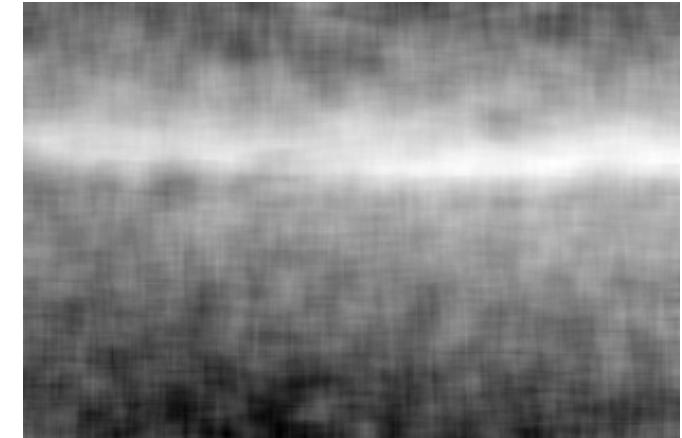
Original Image



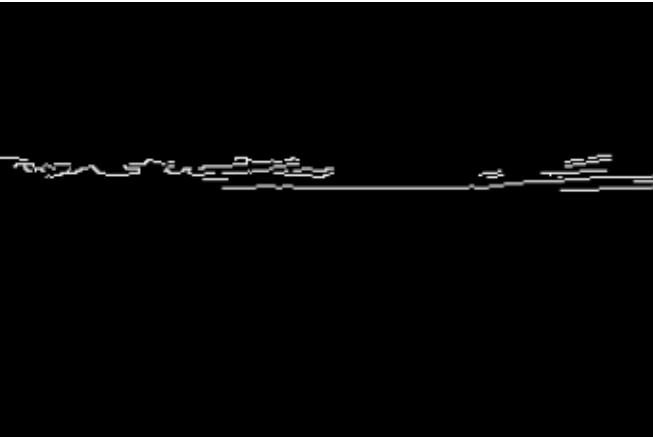
Noisy Image



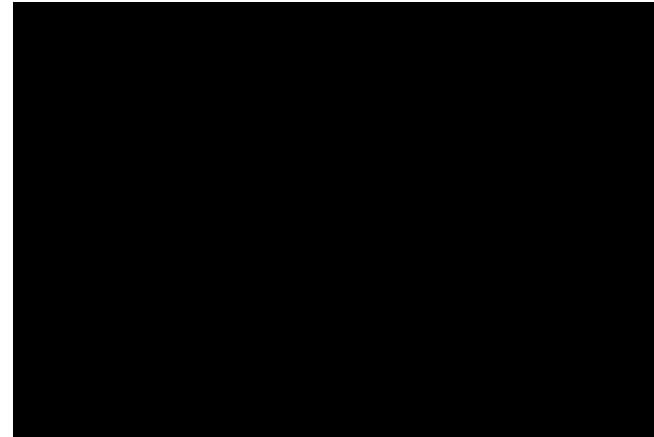
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

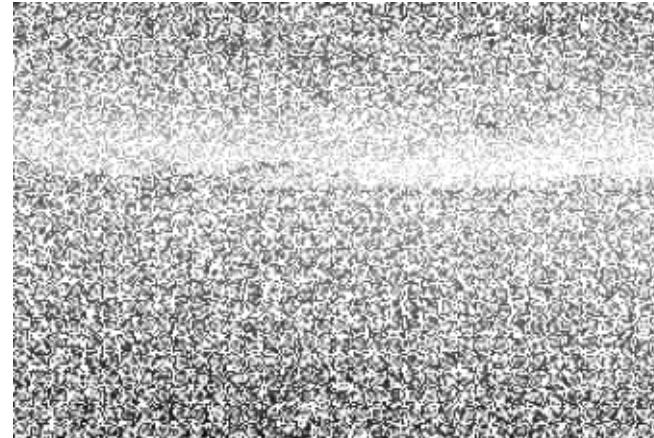


Gaussian Filter - Kernel Size: 3x3  
MSE: 107.57, PSNR: 27.81 dB, FOM: 0.01

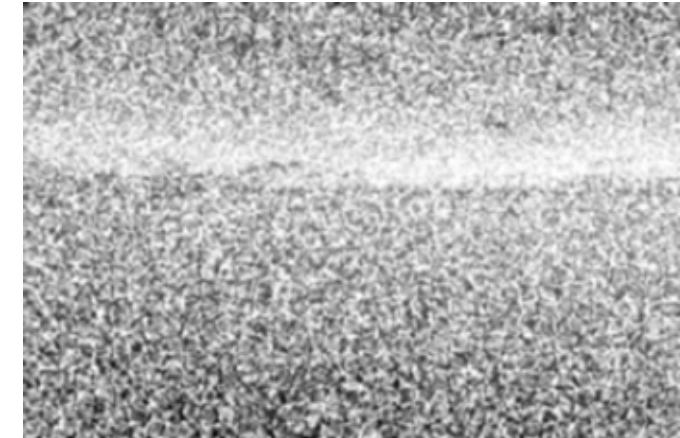
Original Image



Noisy Image



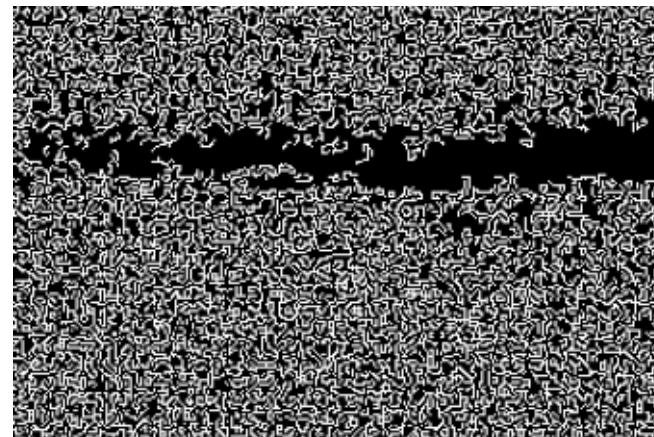
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

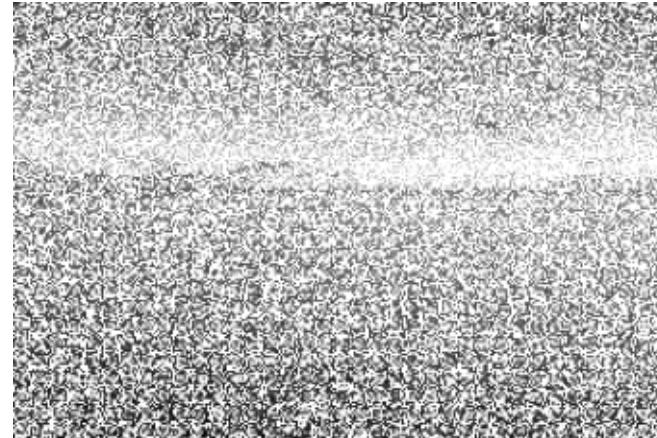


Gaussian Filter - Kernel Size: 9x9  
MSE: 111.52, PSNR: 27.66 dB, FOM: 0.00

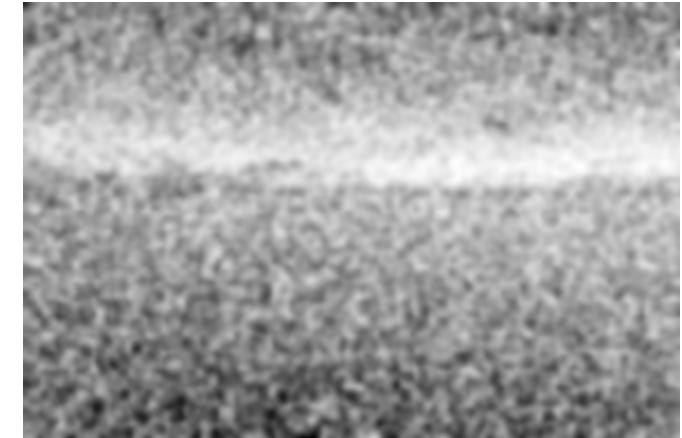
Original Image



Noisy Image



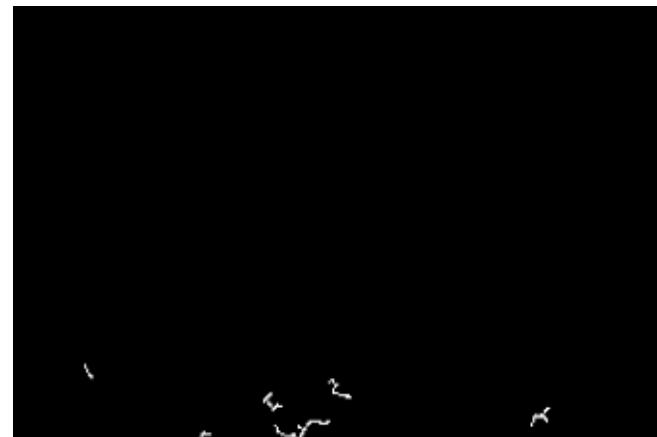
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

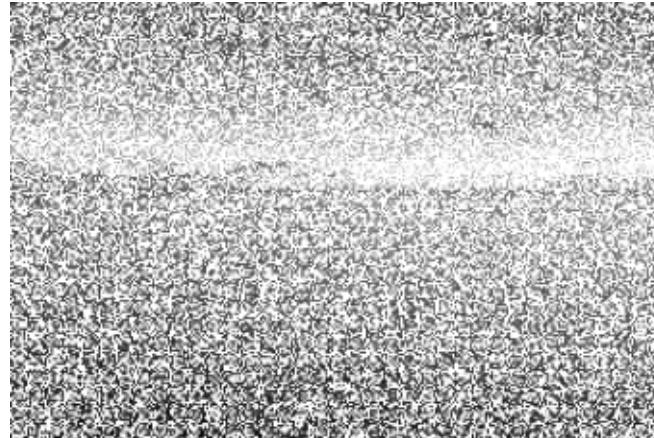


Gaussian Filter - Kernel Size: 15x15  
MSE: 113.68, PSNR: 27.57 dB, FOM: 0.00

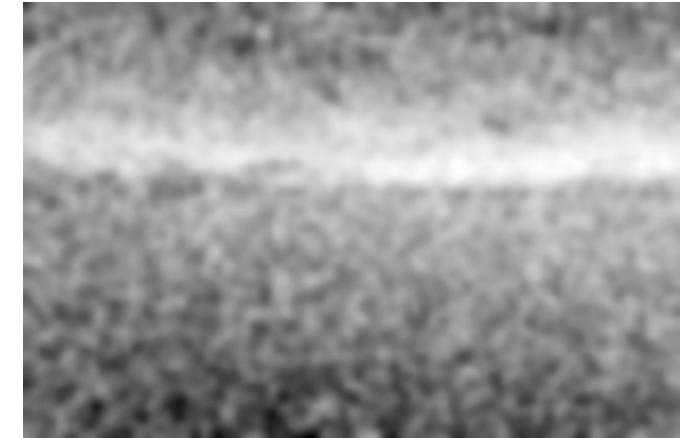
Original Image



Noisy Image



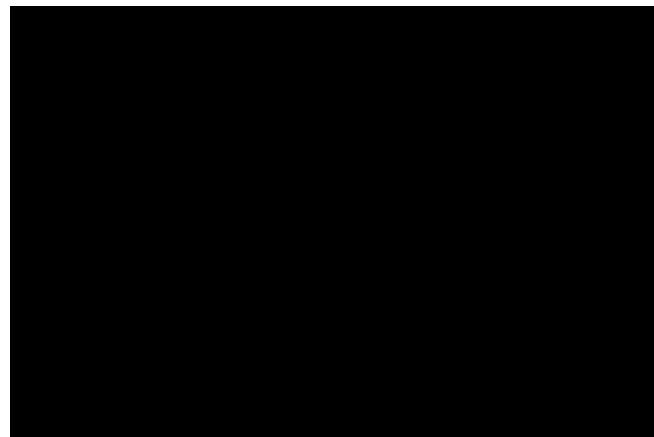
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

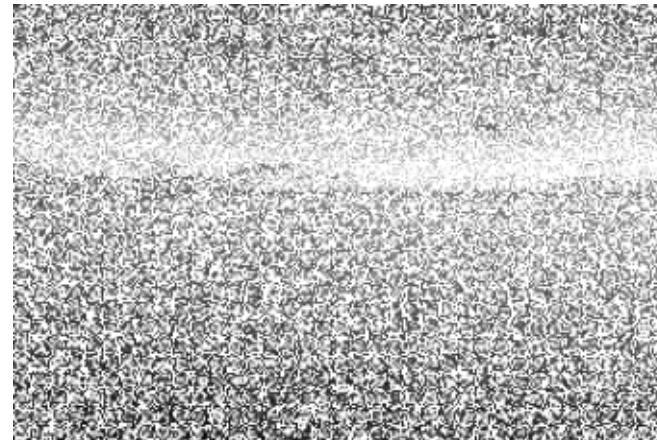


Median Filter - Kernel Size: 3x3  
MSE: 109.07, PSNR: 27.75 dB, FOM: 0.01

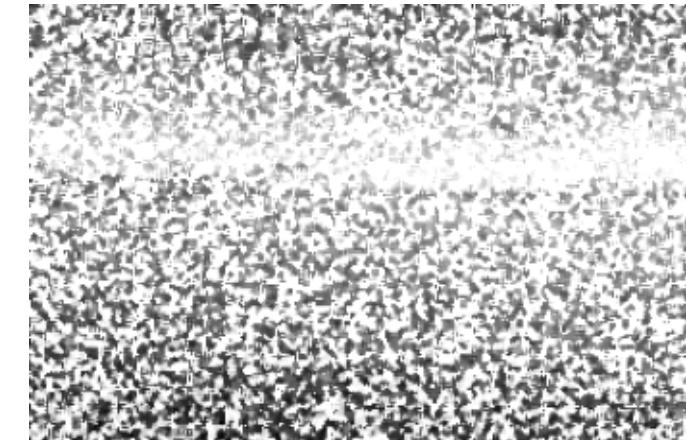
Original Image



Noisy Image



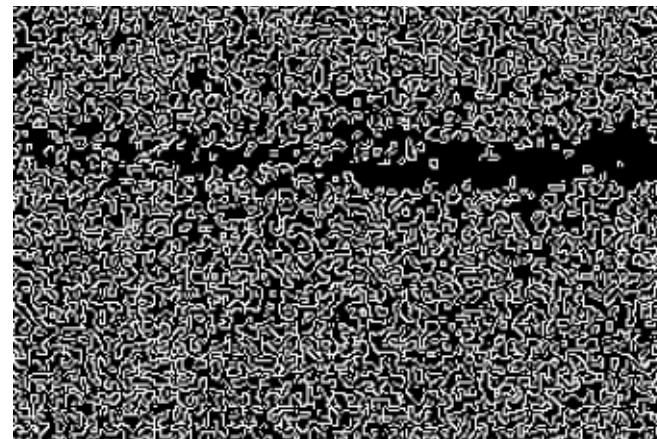
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 106.22, PSNR: 27.87 dB, FOM: 0.00

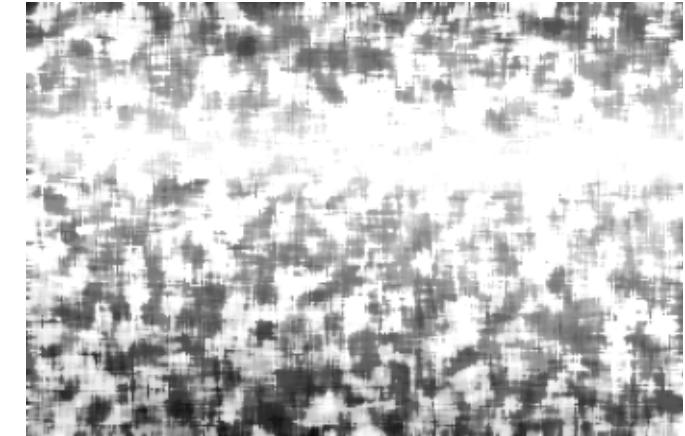
Original Image



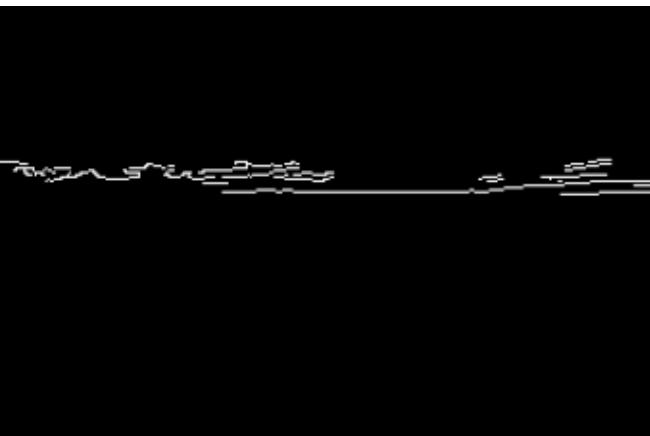
Noisy Image



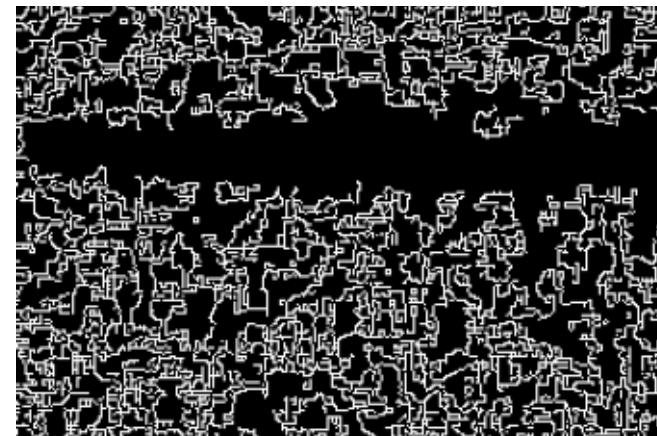
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

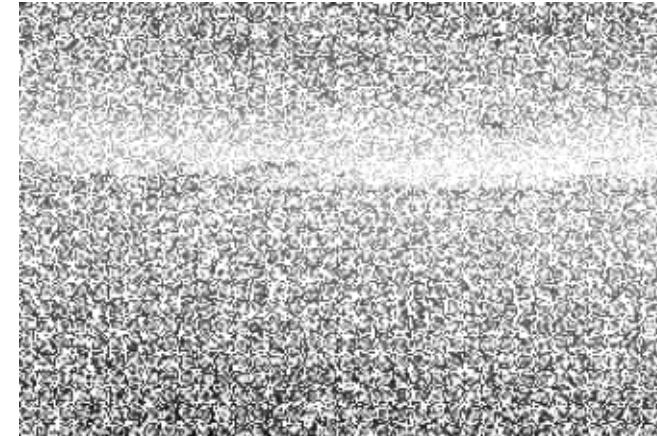


Median Filter - Kernel Size: 15x15  
MSE: 104.90, PSNR: 27.92 dB, FOM: 0.00

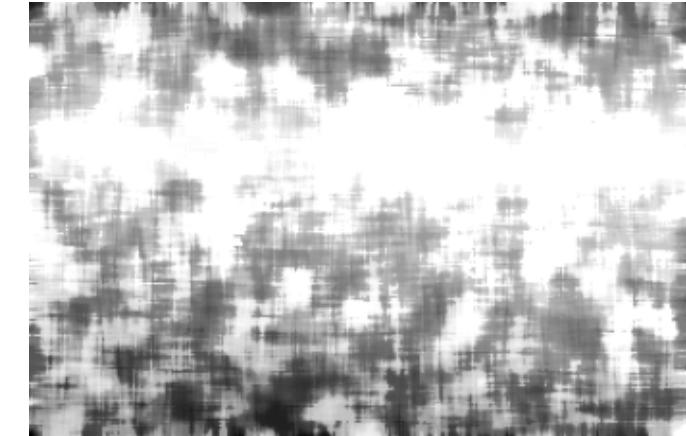
Original Image



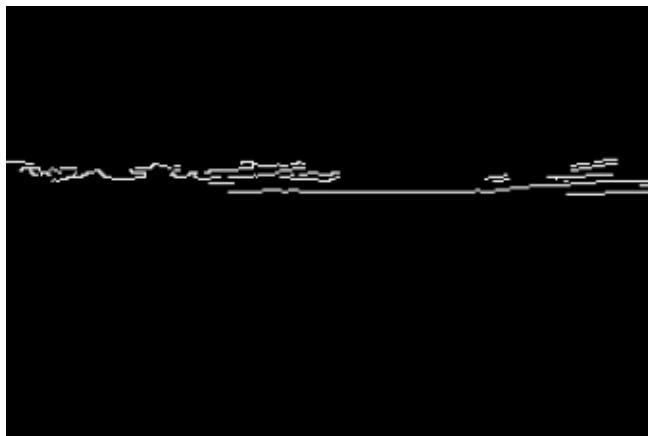
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

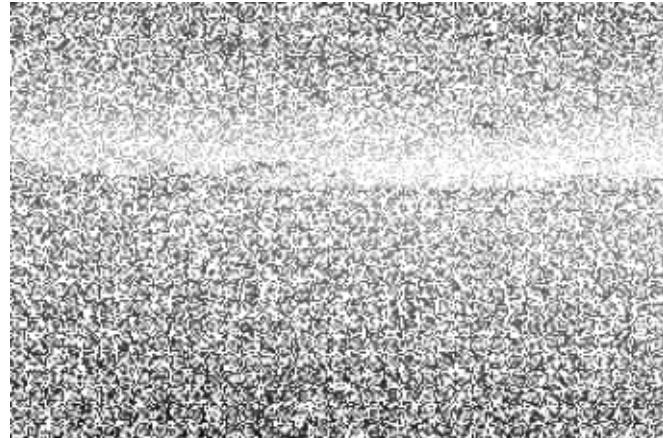


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 105.36, PSNR: 27.90 dB, FOM: 0.01

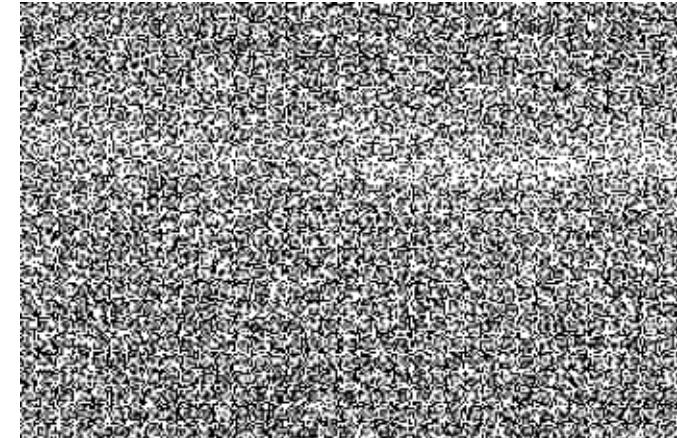
Original Image



Noisy Image



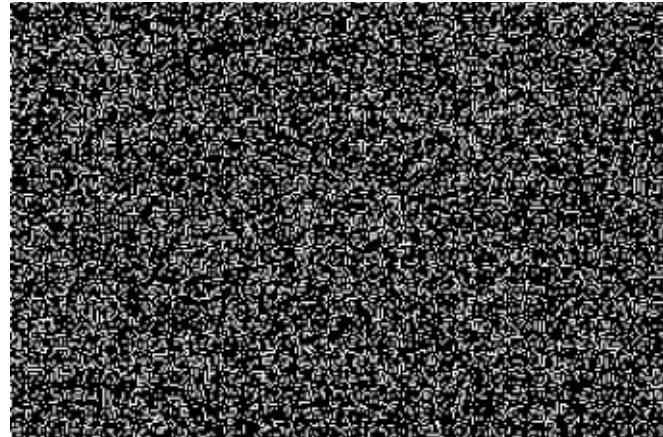
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

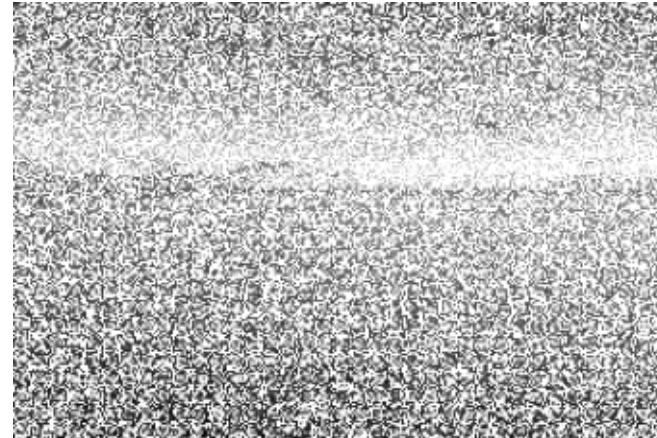


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 105.42, PSNR: 27.90 dB, FOM: 0.01

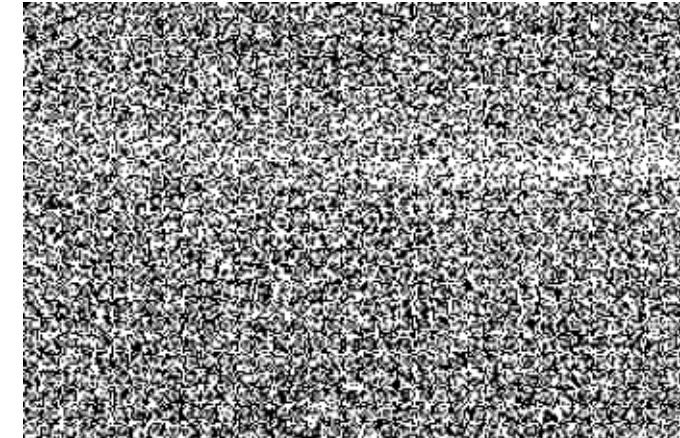
Original Image



Noisy Image



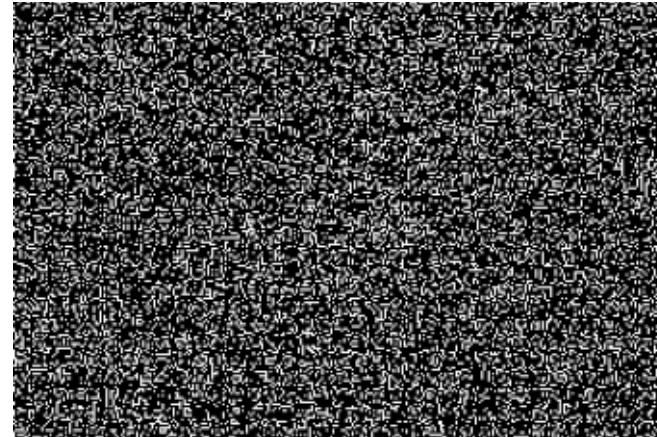
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

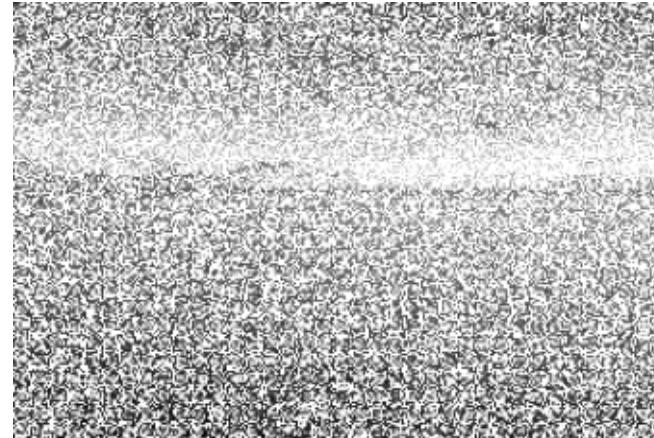


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 105.47, PSNR: 27.90 dB, FOM: 0.01

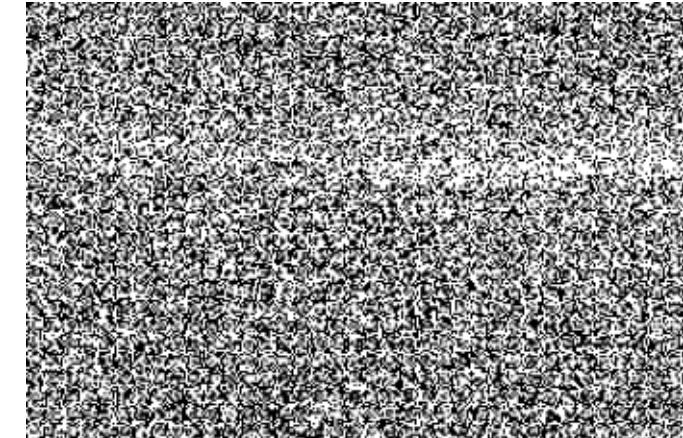
Original Image



Noisy Image



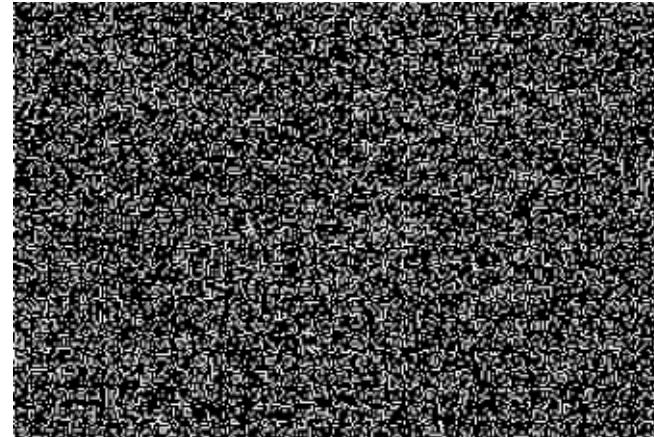
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

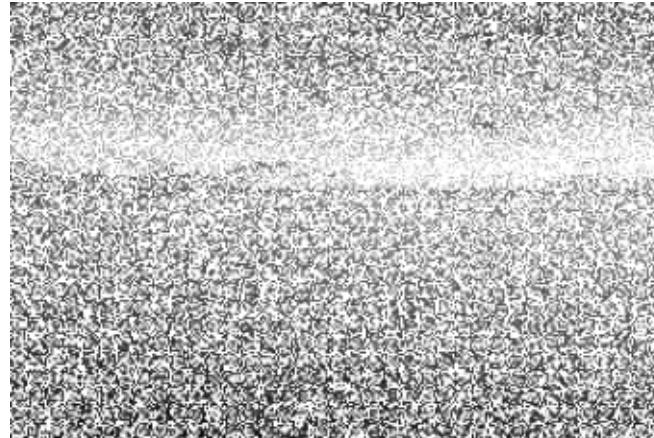


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 108.44, PSNR: 27.78 dB, FOM: 0.01

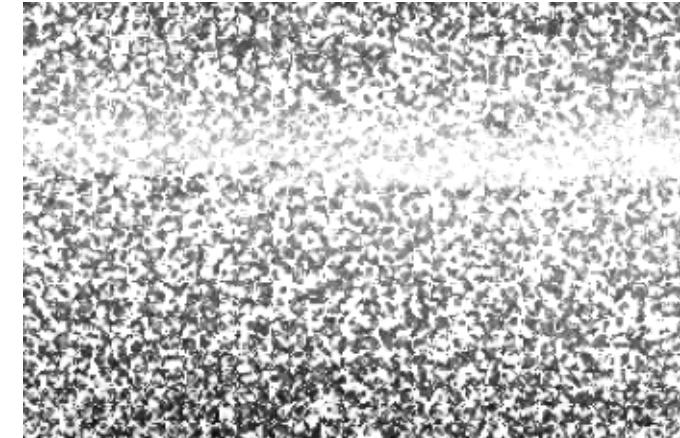
Original Image



Noisy Image



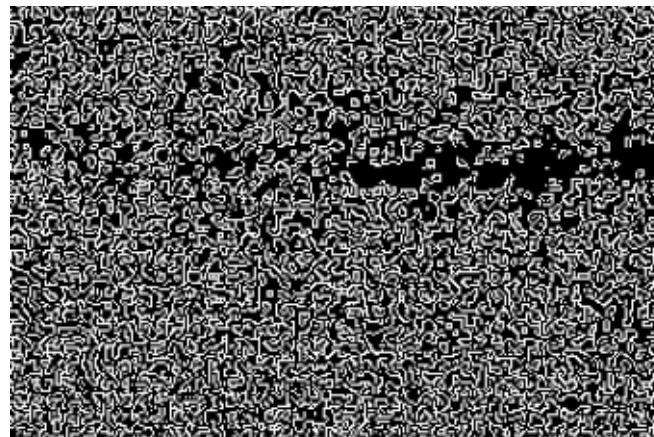
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

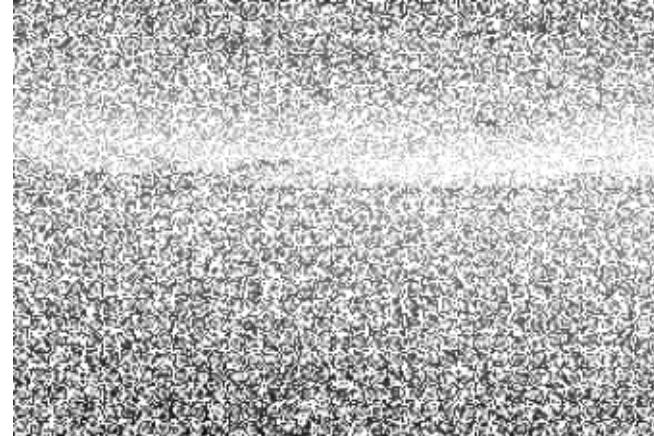


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 104.17, PSNR: 27.95 dB, FOM: 0.01

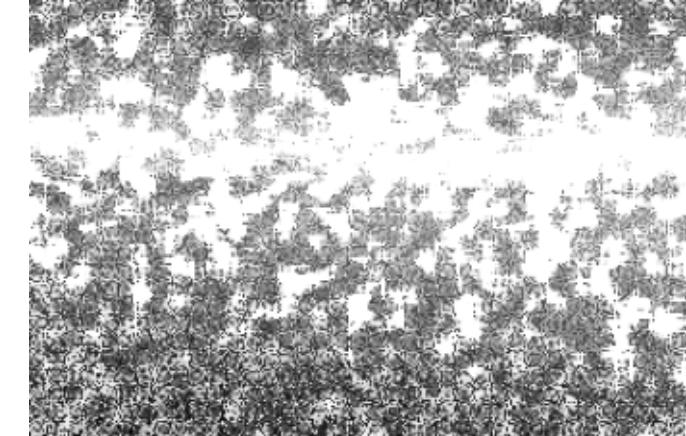
Original Image



Noisy Image



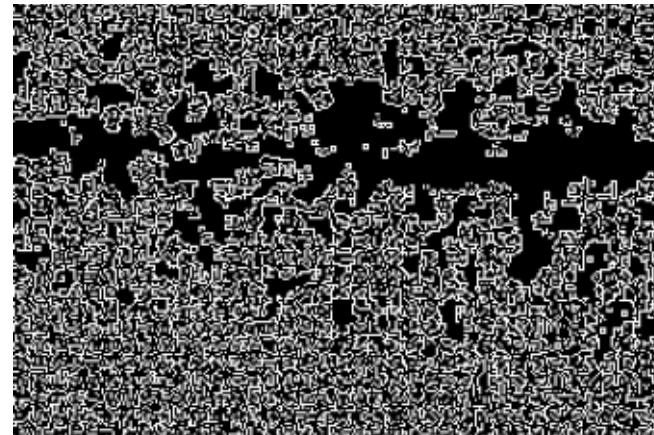
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

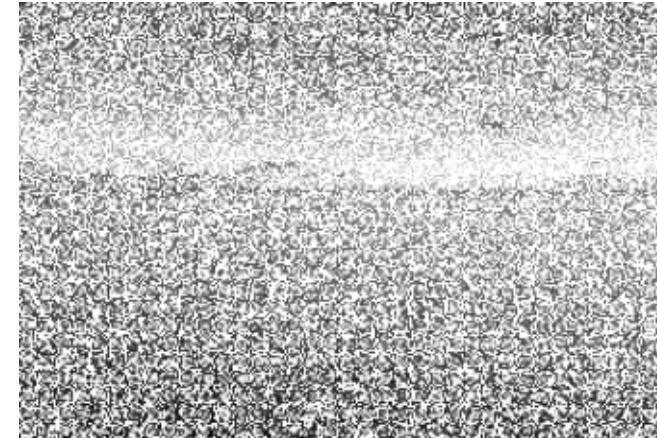


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 102.93, PSNR: 28.01 dB, FOM: 0.01

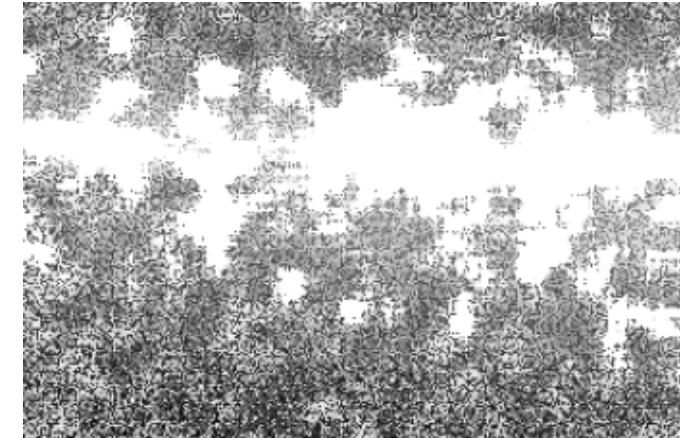
Original Image



Noisy Image



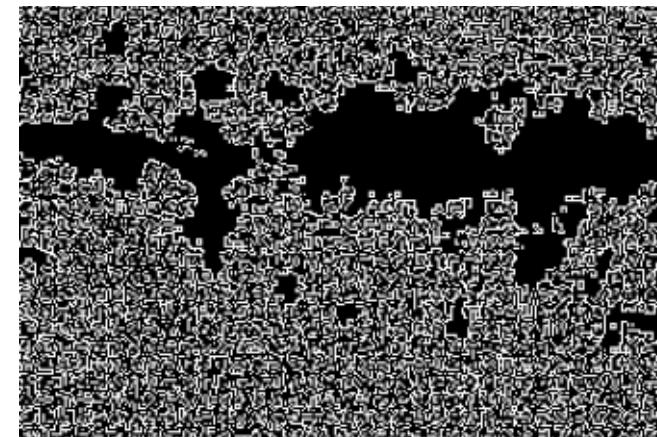
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

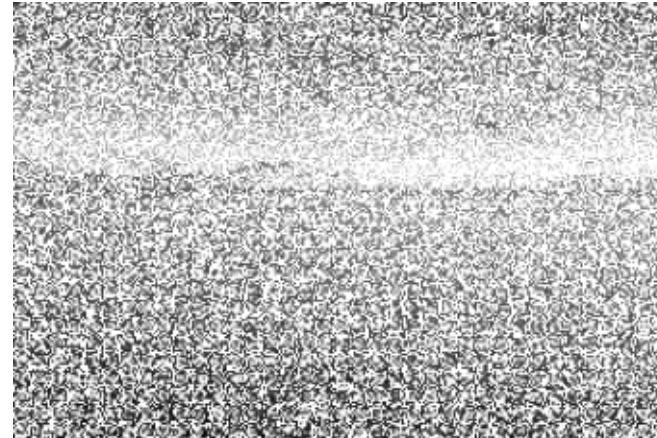


Bilateral Filter - Kernel Size: 3x3  
MSE: 109.52, PSNR: 27.74 dB, FOM: 0.01

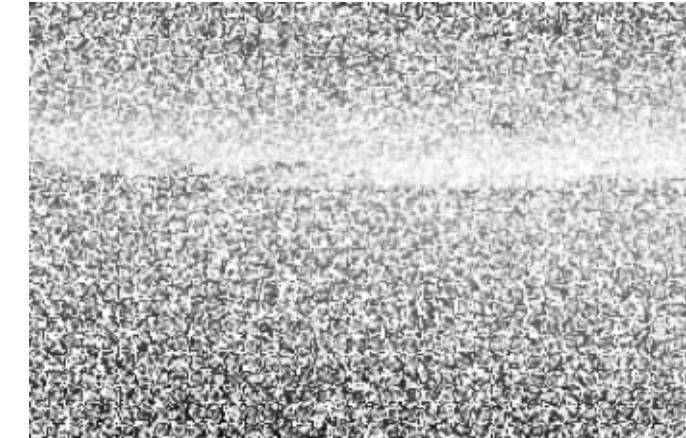
Original Image



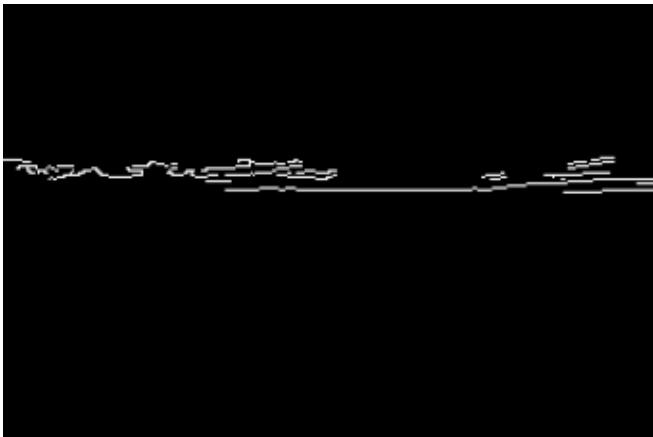
Noisy Image



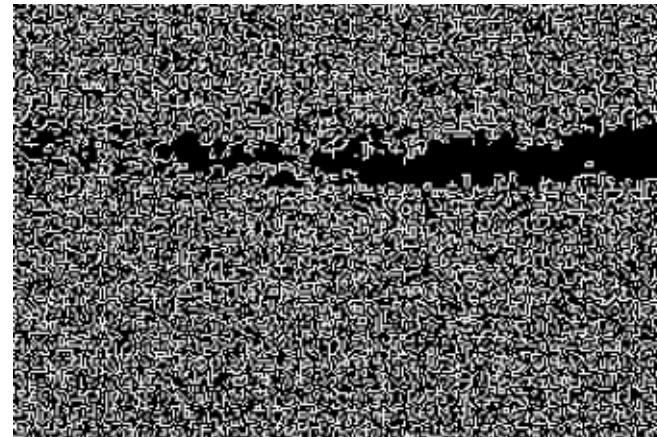
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

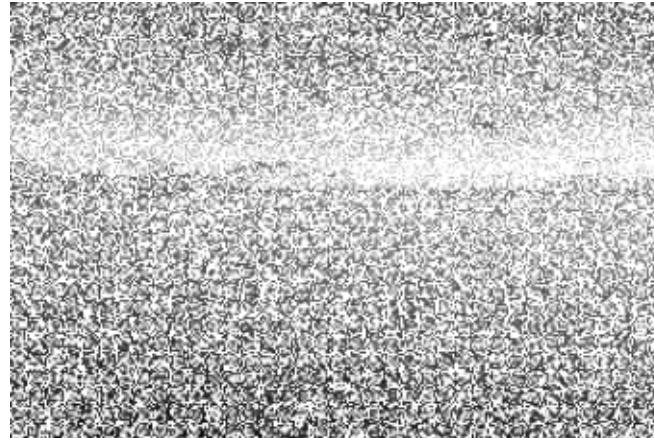


Bilateral Filter - Kernel Size: 9x9  
MSE: 108.44, PSNR: 27.78 dB, FOM: 0.01

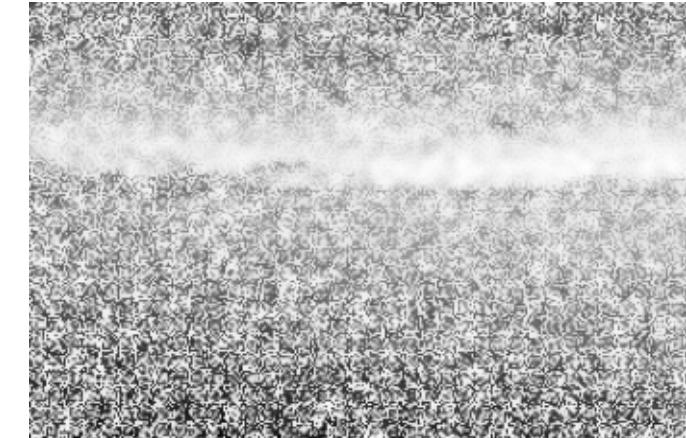
Original Image



Noisy Image



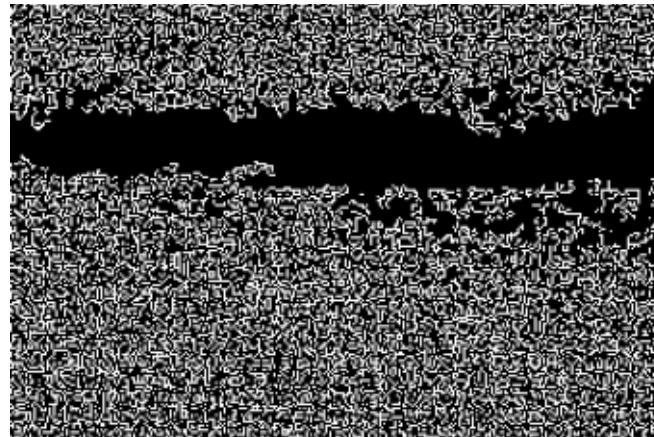
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 108.80, PSNR: 27.76 dB, FOM: 0.01

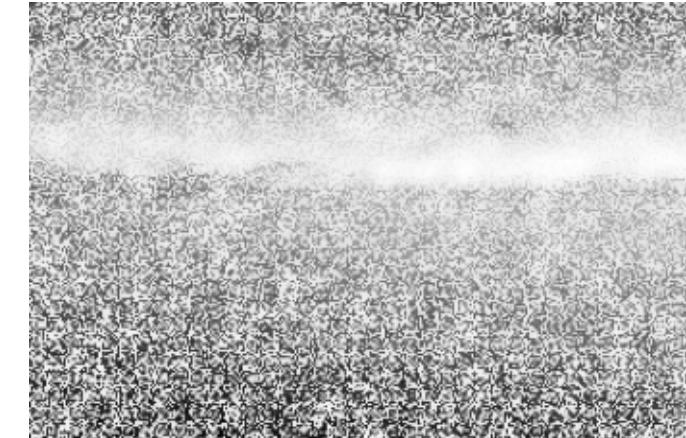
Original Image



Noisy Image



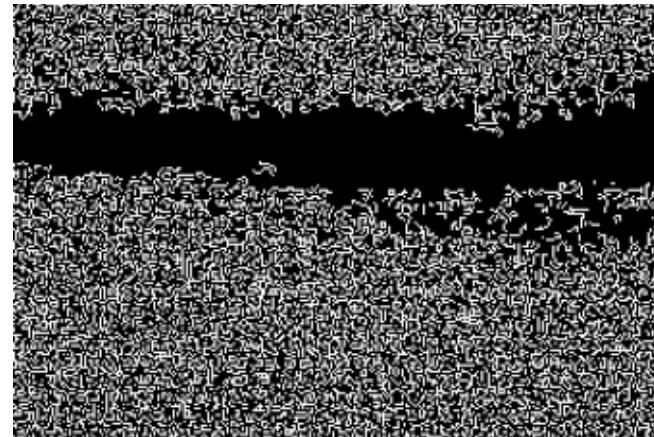
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 101.77, PSNR: 28.05 dB, FOM: 0.01

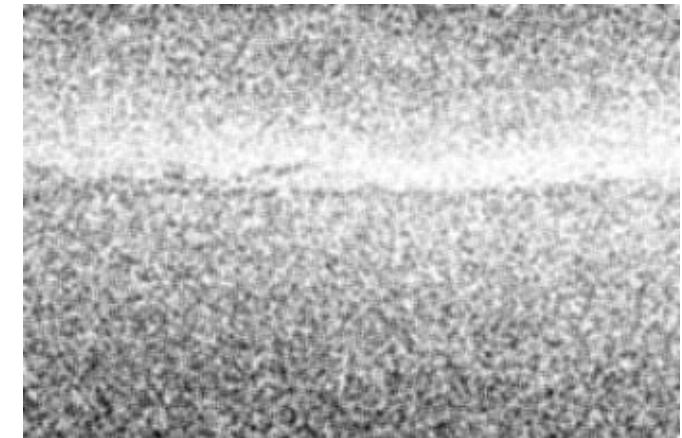
Original Image



Noisy Image



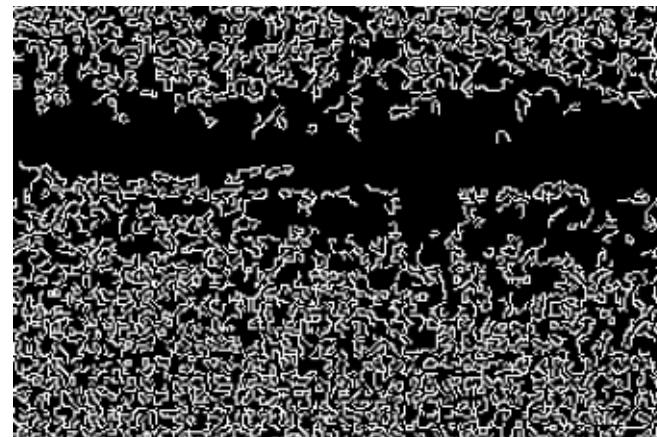
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

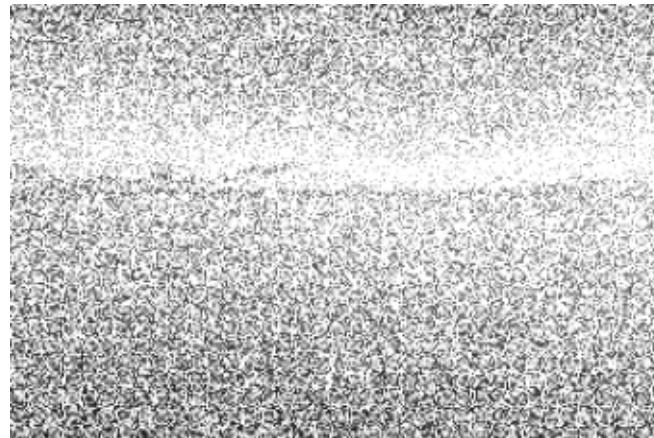


Box Filter - Kernel Size: 9x9  
MSE: 102.92, PSNR: 28.01 dB, FOM: 0.00

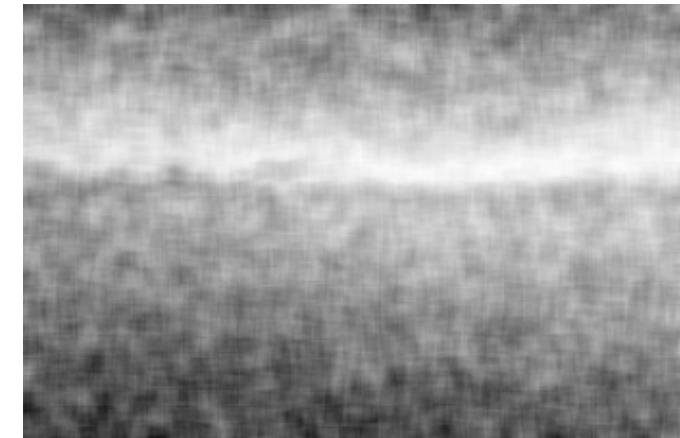
Original Image



Noisy Image



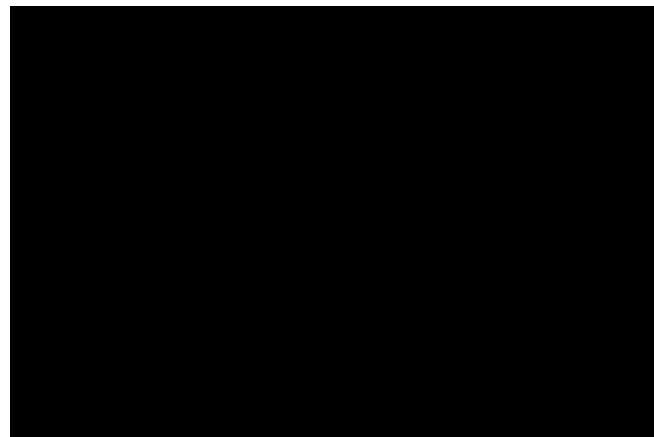
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 102.86, PSNR: 28.01 dB, FOM: 0.00

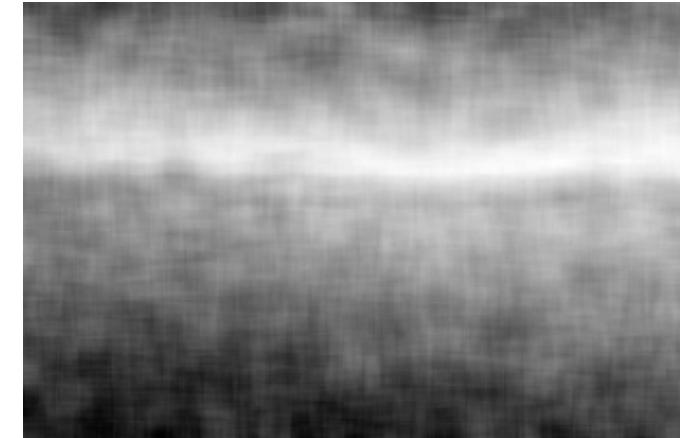
Original Image



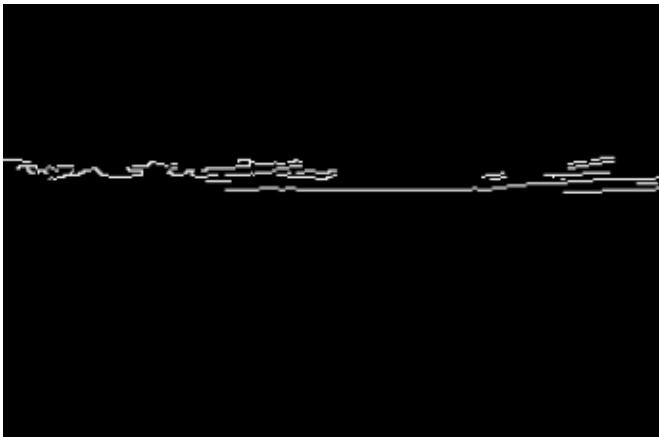
Noisy Image



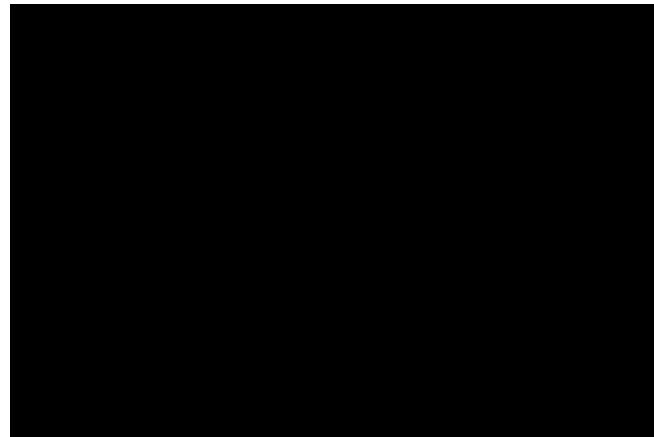
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

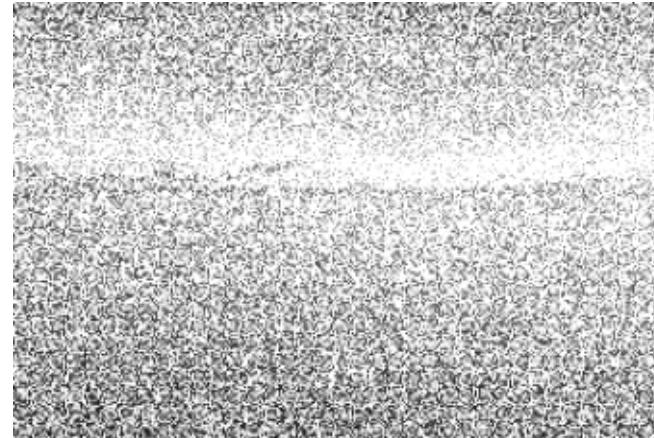


Gaussian Filter - Kernel Size: 3x3  
MSE: 102.03, PSNR: 28.04 dB, FOM: 0.01

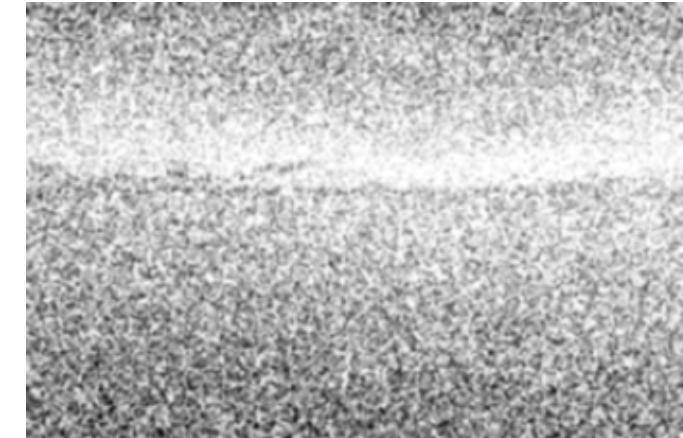
Original Image



Noisy Image



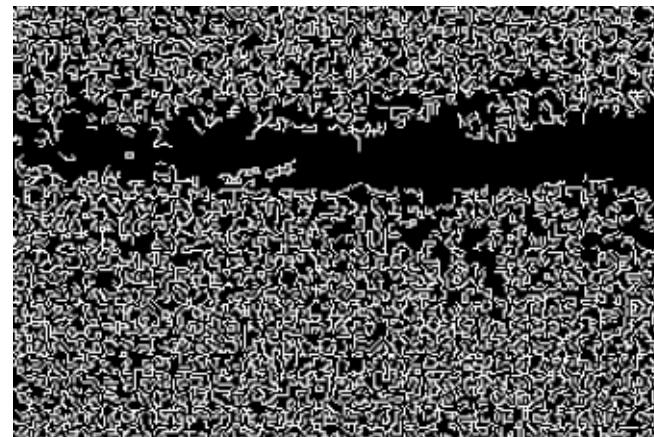
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

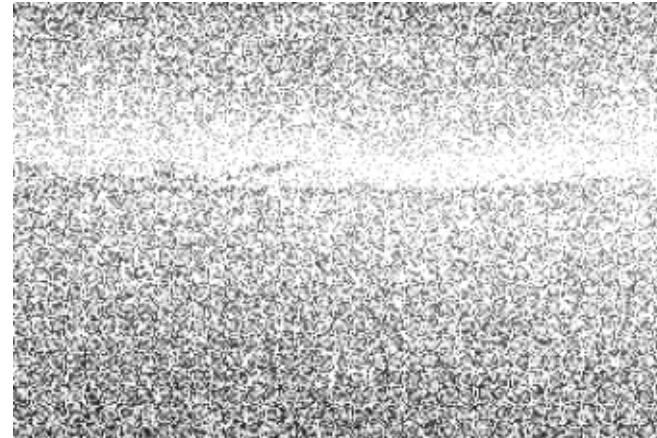


Gaussian Filter - Kernel Size: 9x9  
MSE: 101.22, PSNR: 28.08 dB, FOM: 0.00

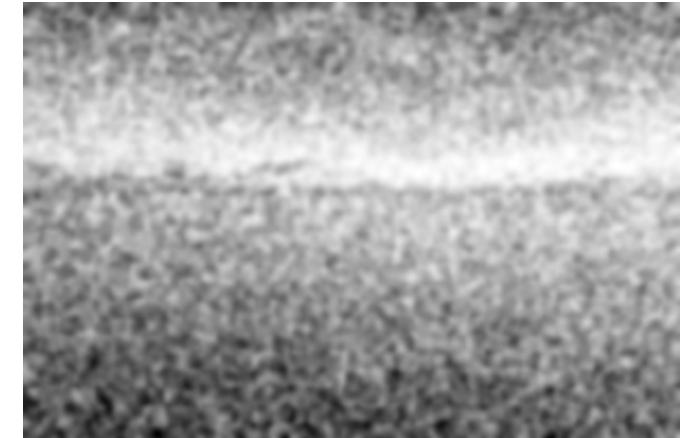
Original Image



Noisy Image



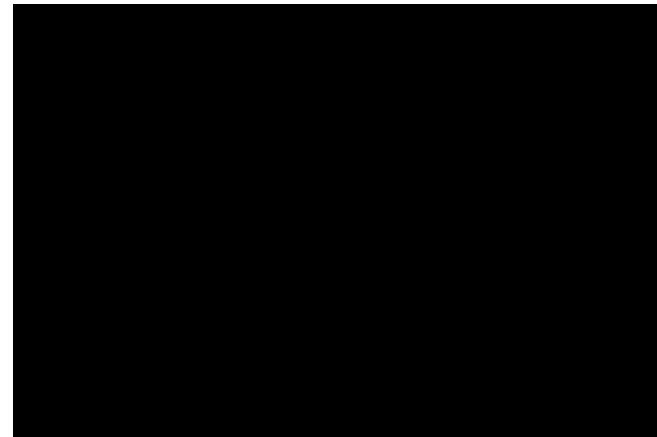
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 102.47, PSNR: 28.02 dB, FOM: 0.00

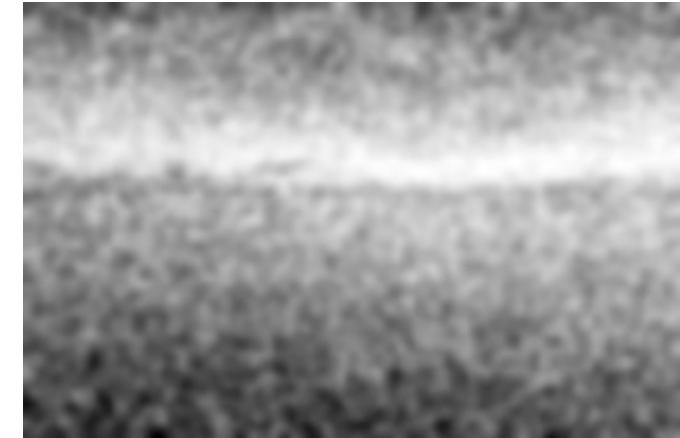
Original Image



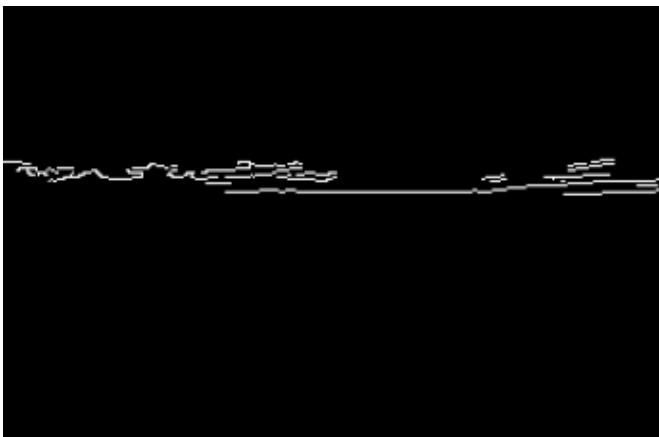
Noisy Image



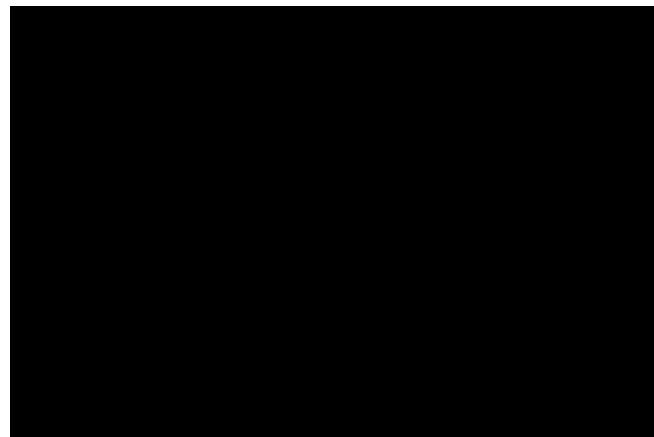
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 99.03, PSNR: 28.17 dB, FOM: 0.01

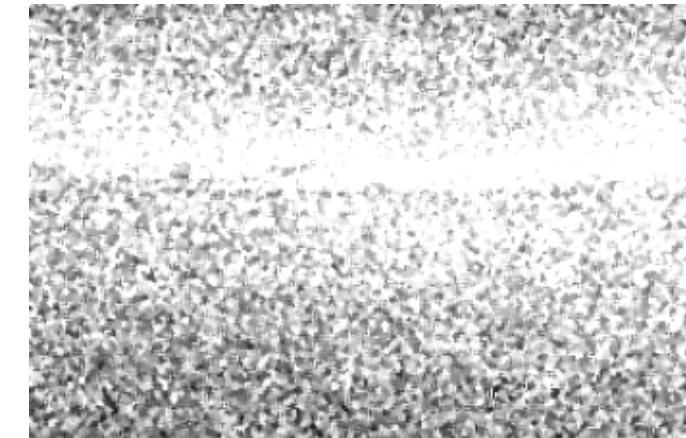
Original Image



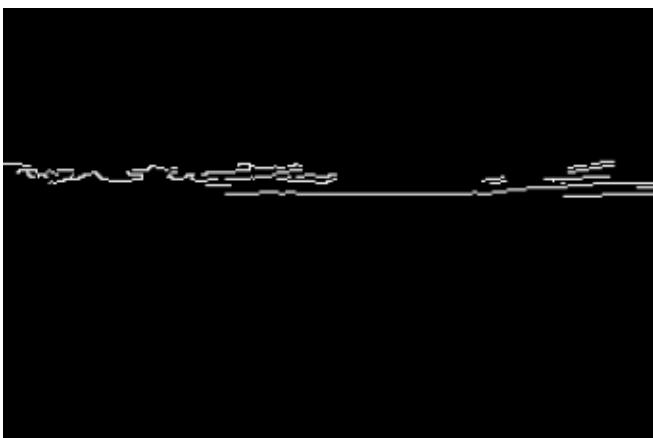
Noisy Image



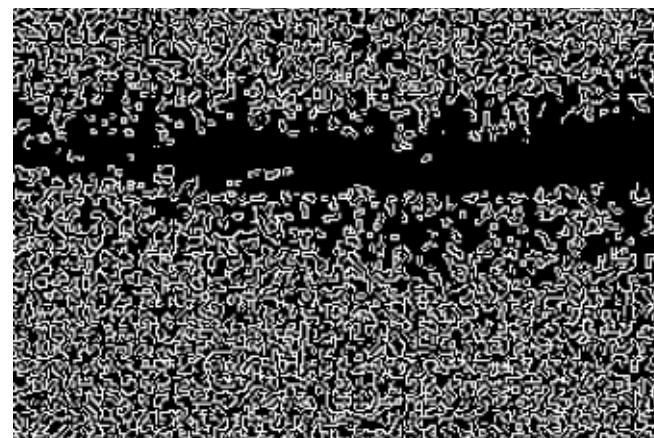
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

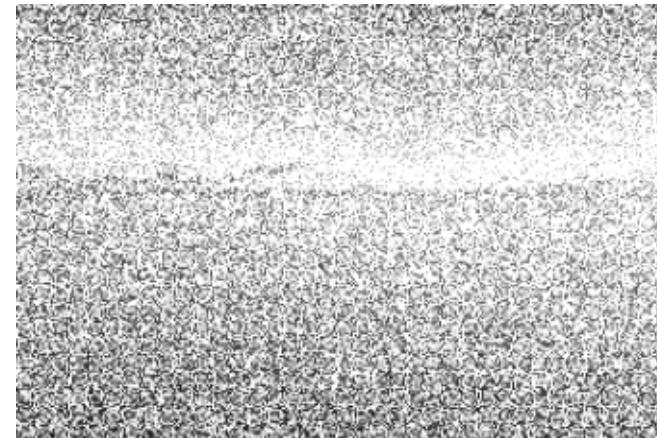


Median Filter - Kernel Size: 9x9  
MSE: 79.34, PSNR: 29.14 dB, FOM: 0.00

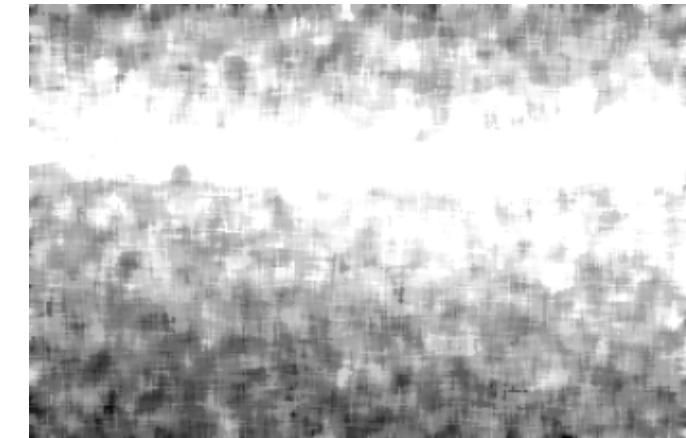
Original Image



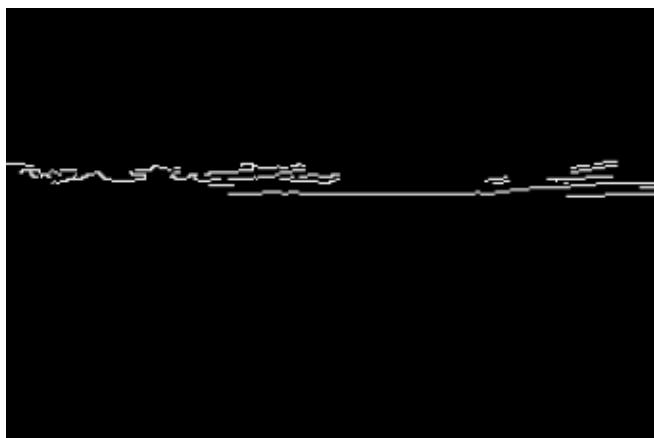
Noisy Image



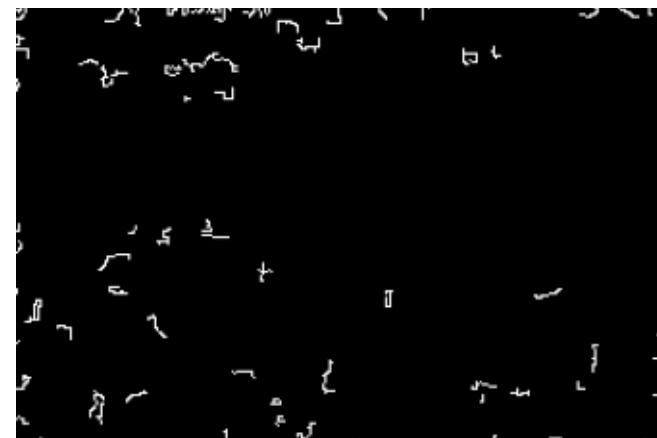
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

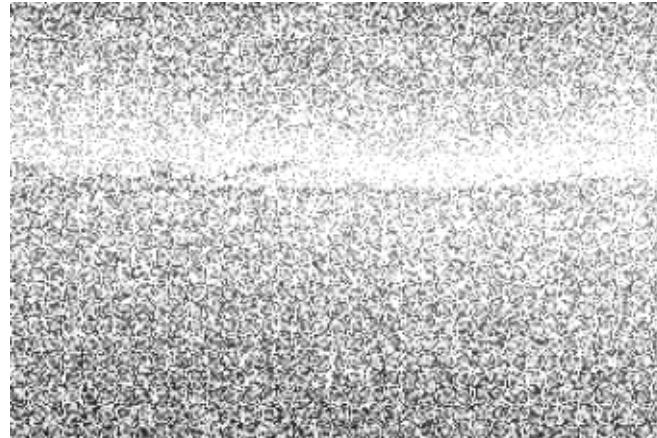


Median Filter - Kernel Size: 15x15  
MSE: 64.56, PSNR: 30.03 dB, FOM: 0.00

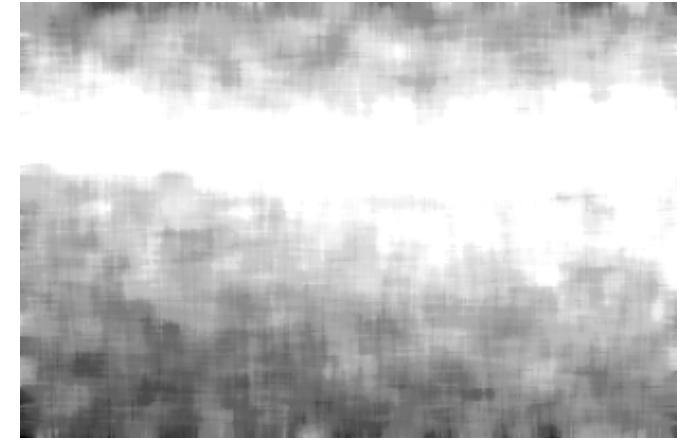
Original Image



Noisy Image



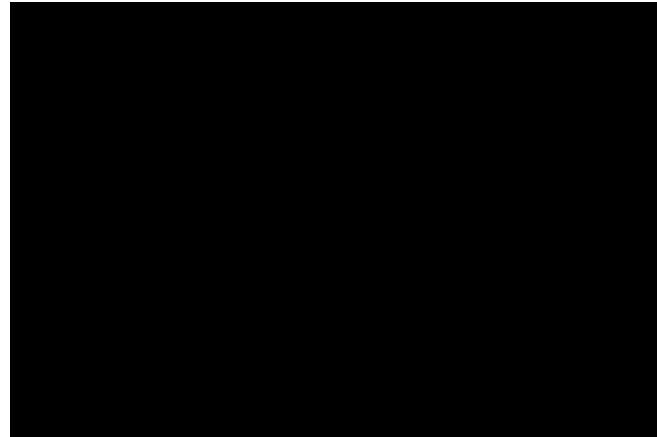
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 105.69, PSNR: 27.89 dB, FOM: 0.01

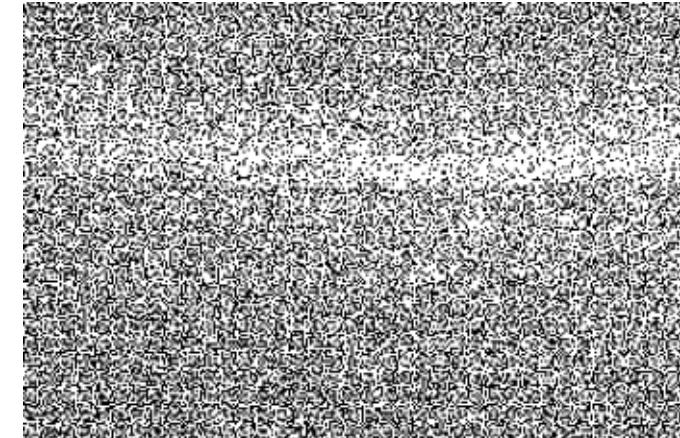
Original Image



Noisy Image



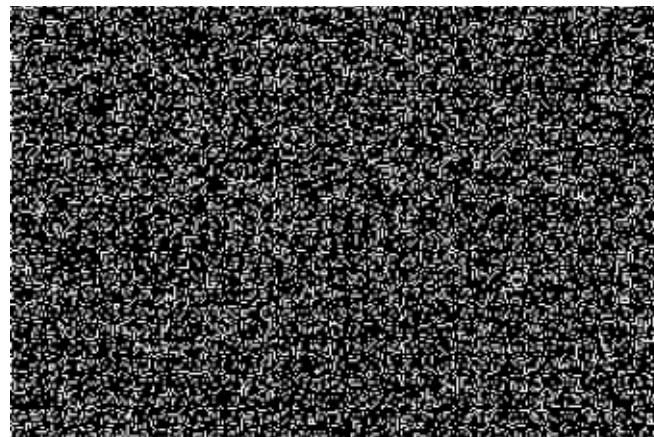
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

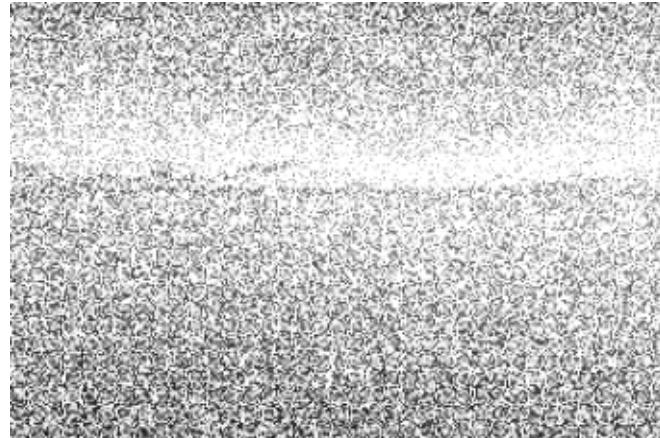


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 105.87, PSNR: 27.88 dB, FOM: 0.01

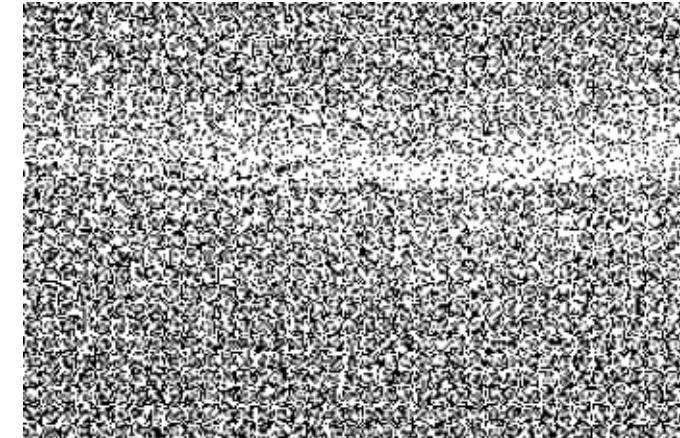
Original Image



Noisy Image



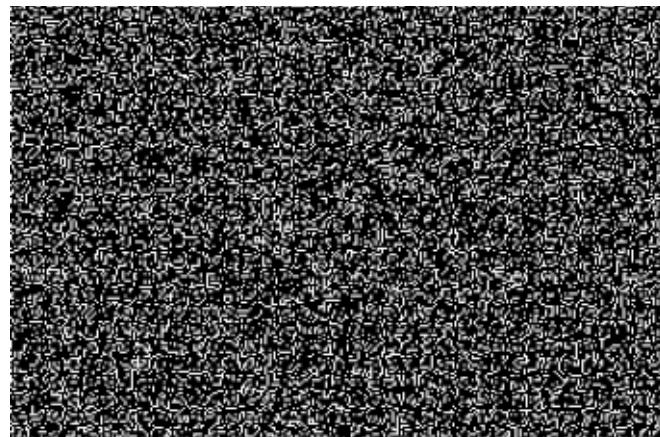
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

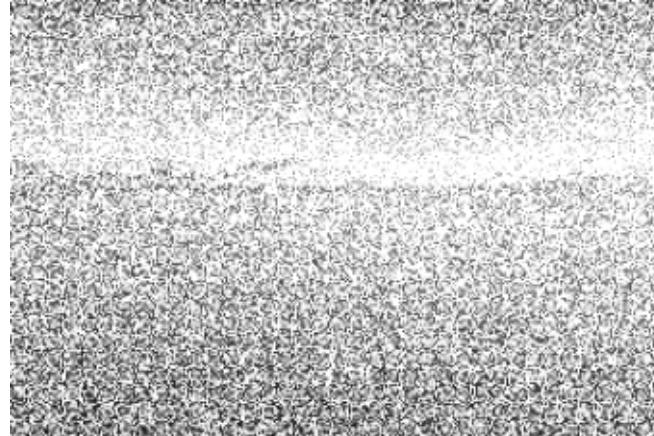


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 105.83, PSNR: 27.88 dB, FOM: 0.01

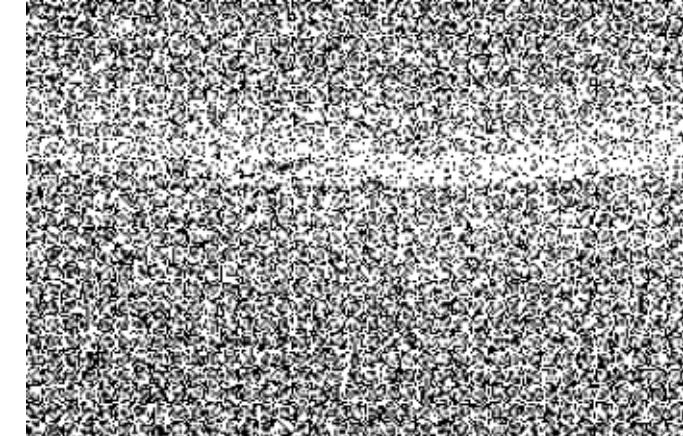
Original Image



Noisy Image



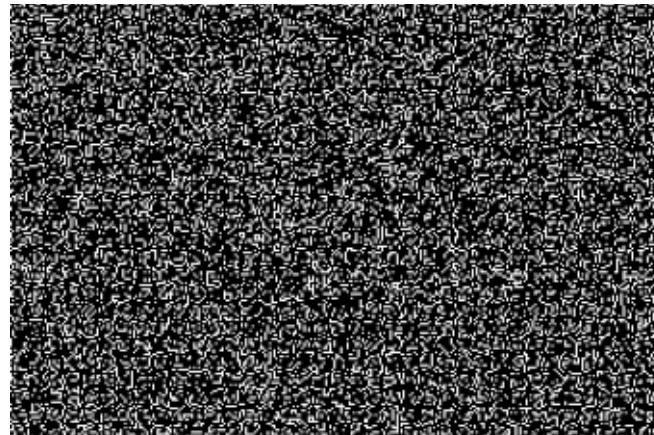
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 101.44, PSNR: 28.07 dB, FOM: 0.01

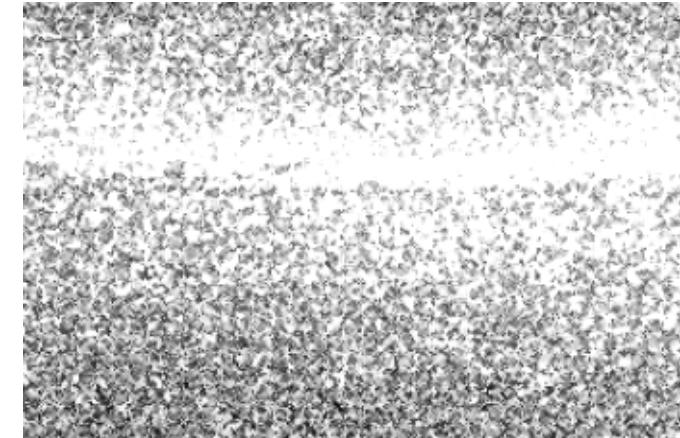
Original Image



Noisy Image



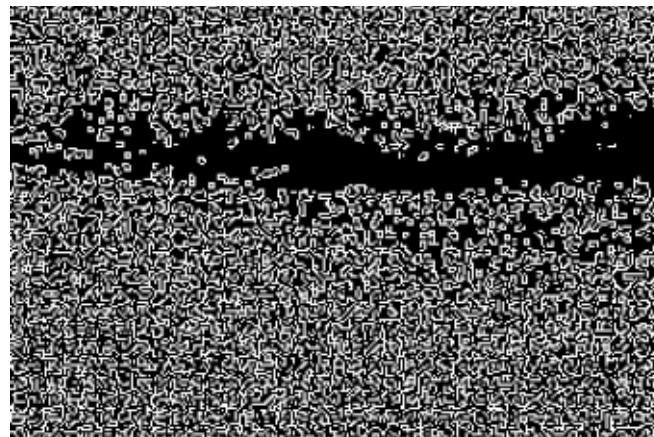
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

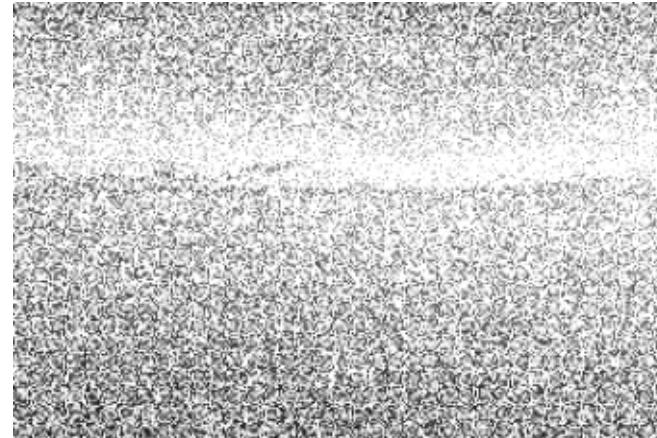


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 93.46, PSNR: 28.42 dB, FOM: 0.00

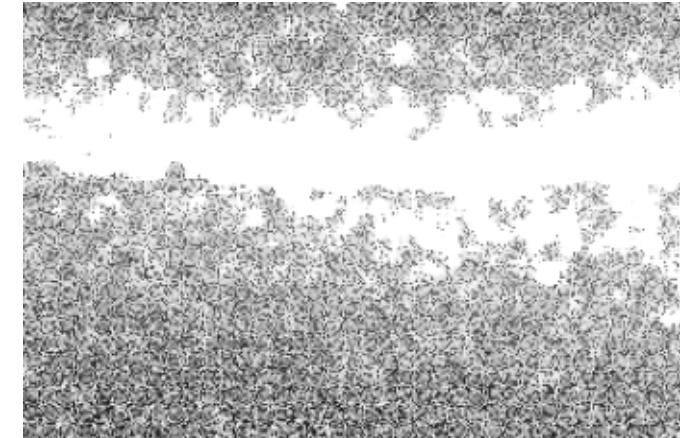
Original Image



Noisy Image



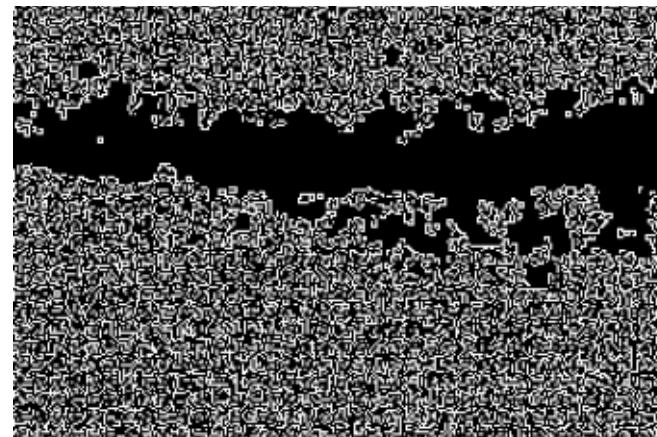
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

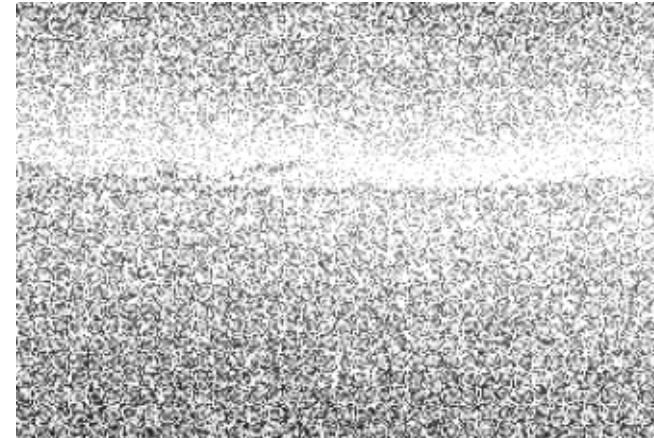


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 87.61, PSNR: 28.71 dB, FOM: 0.00

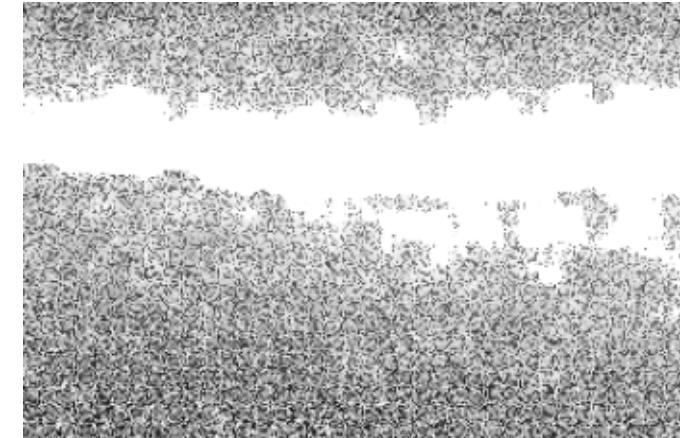
Original Image



Noisy Image



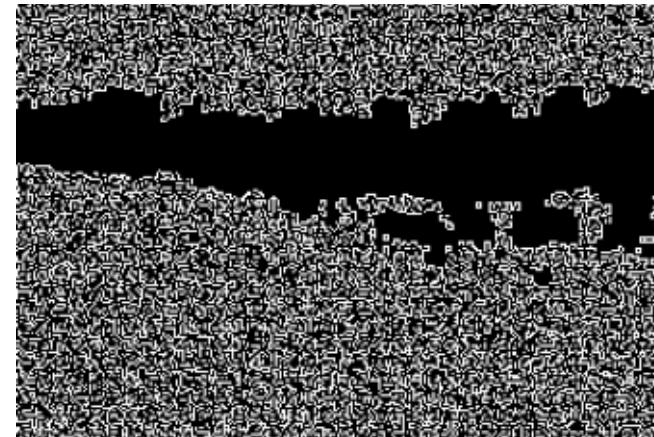
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

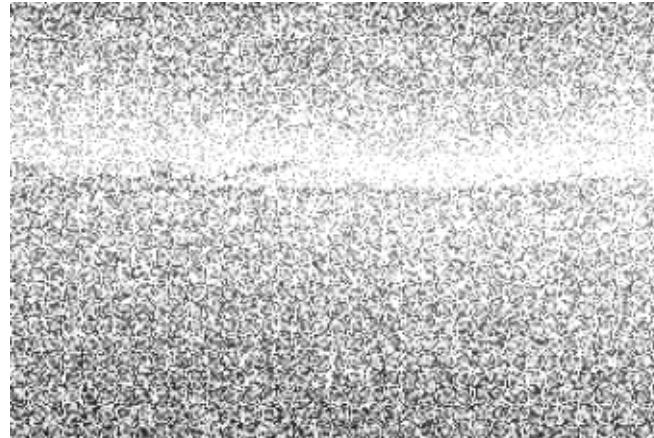


Bilateral Filter - Kernel Size: 3x3  
MSE: 103.97, PSNR: 27.96 dB, FOM: 0.01

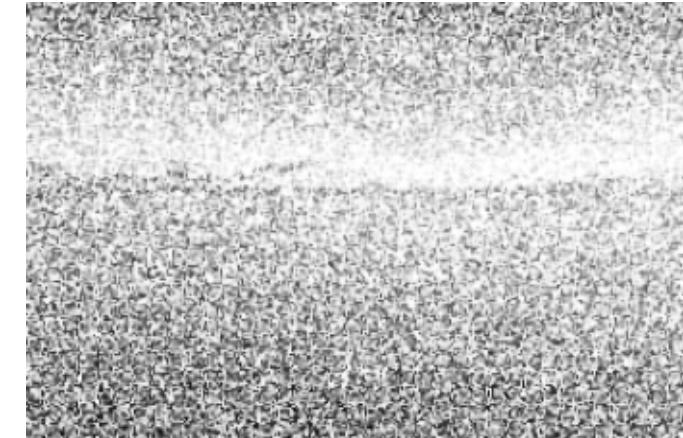
Original Image



Noisy Image



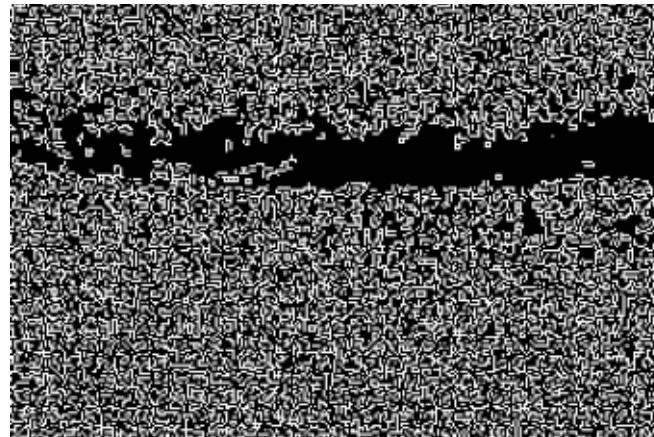
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 101.55, PSNR: 28.06 dB, FOM: 0.00

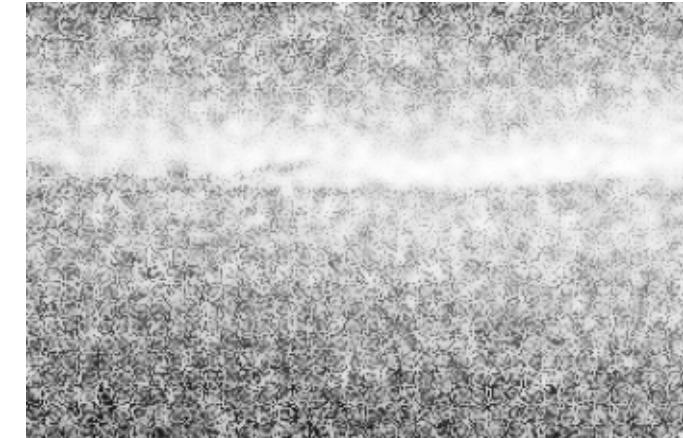
Original Image



Noisy Image



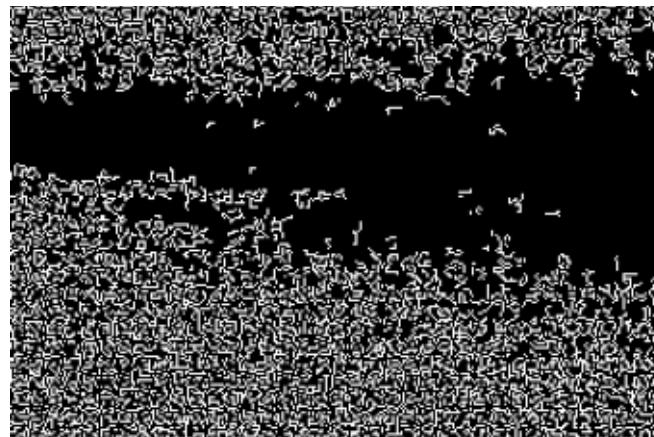
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

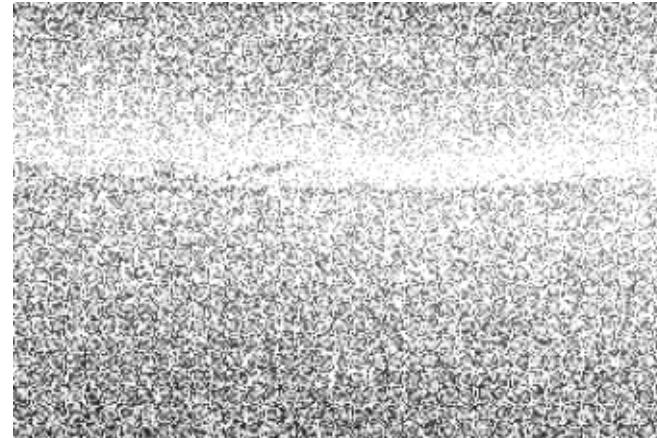


Bilateral Filter - Kernel Size: 15x15  
MSE: 101.52, PSNR: 28.07 dB, FOM: 0.00

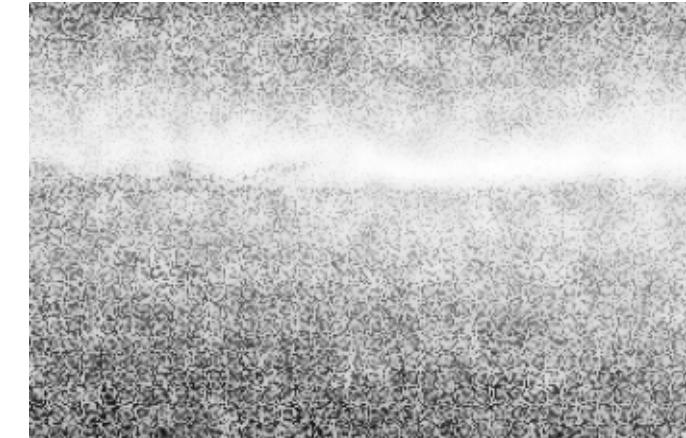
Original Image



Noisy Image



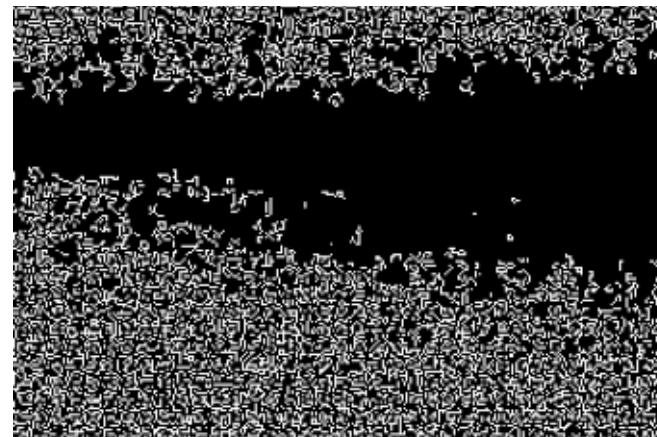
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 21.49, PSNR: 34.81 dB, FOM: 0.42

Original Image



Noisy Image



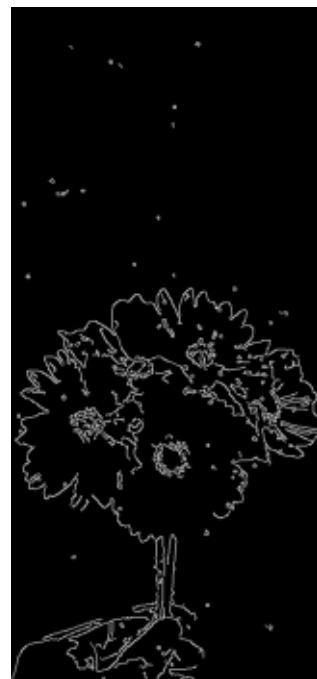
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 23.30, PSNR: 34.46 dB, FOM: 0.01

Original Image



Noisy Image



Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 26.41, PSNR: 33.91 dB, FOM: 0.00

Original Image



Noisy Image



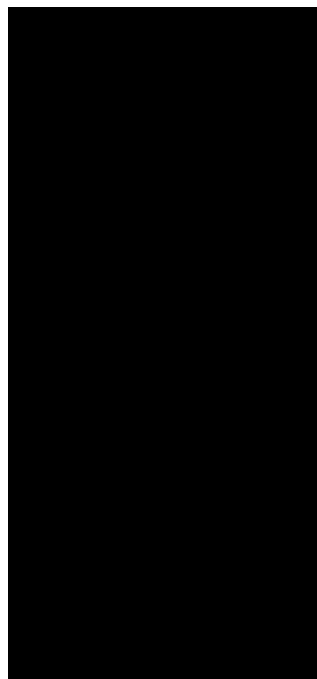
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 20.13, PSNR: 35.09 dB, FOM: 0.35

Original Image



Noisy Image



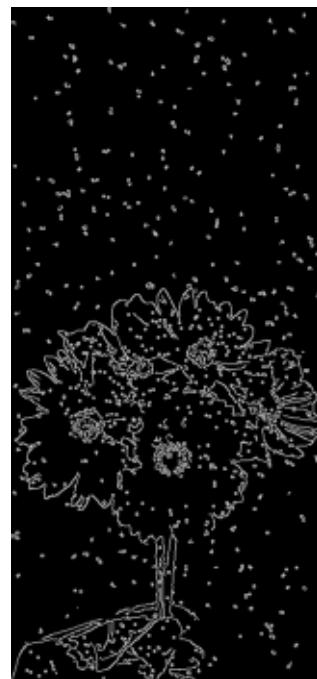
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 9x9  
MSE: 22.17, PSNR: 34.67 dB, FOM: 0.17

Original Image



Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 22.29, PSNR: 34.65 dB, FOM: 0.05

Original Image



Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 3.67, PSNR: 42.49 dB, FOM: 0.63

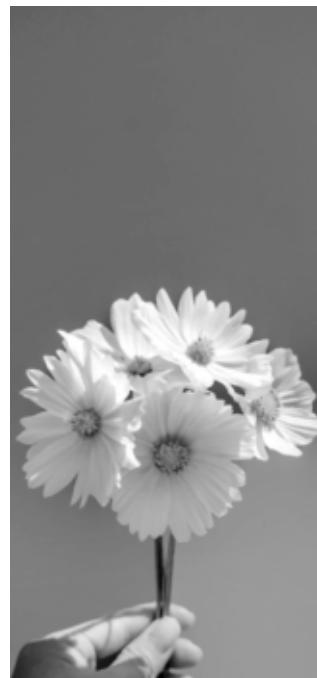
Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 12.89, PSNR: 37.03 dB, FOM: 0.21

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 17.25, PSNR: 35.76 dB, FOM: 0.09

Original Image



Noisy Image



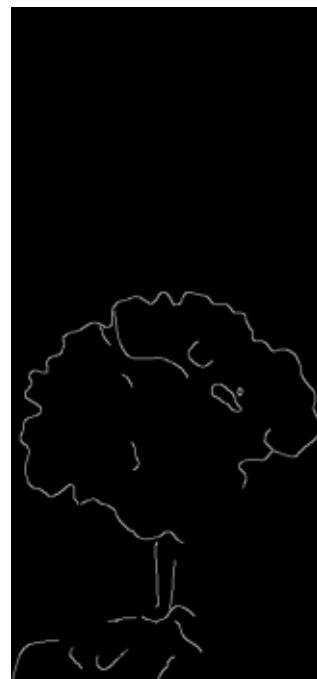
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 110.10, PSNR: 27.71 dB, FOM: 0.09

Original Image



Noisy Image



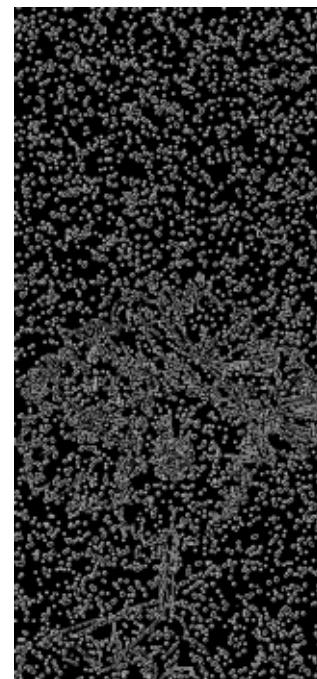
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 110.47, PSNR: 27.70 dB, FOM: 0.13

Original Image



Noisy Image



Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 110.55, PSNR: 27.70 dB, FOM: 0.14

Original Image



Noisy Image



Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 1.09, PSNR: 47.76 dB, FOM: 0.85

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 9x9  
MSE: 0.52, PSNR: 50.93 dB, FOM: 0.89

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 15x15  
MSE: 0.43, PSNR: 51.81 dB, FOM: 0.89

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 10.13, PSNR: 38.07 dB, FOM: 0.23

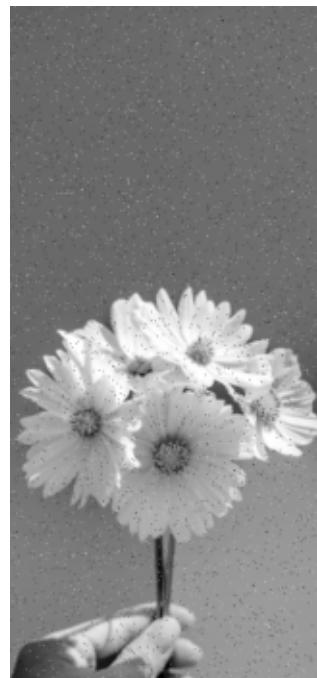
Original Image



Noisy Image



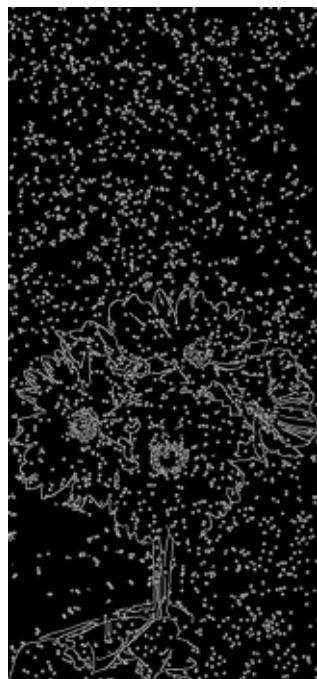
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 16.93, PSNR: 35.84 dB, FOM: 0.23

Original Image



Noisy Image



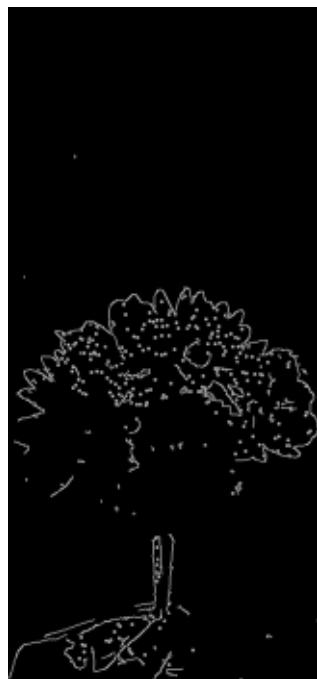
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 21.54, PSNR: 34.80 dB, FOM: 0.18

Original Image



Noisy Image



Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

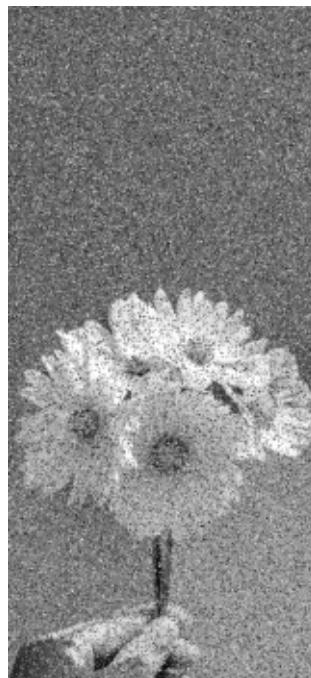


Box Filter - Kernel Size: 3x3  
MSE: 74.30, PSNR: 29.42 dB, FOM: 0.05

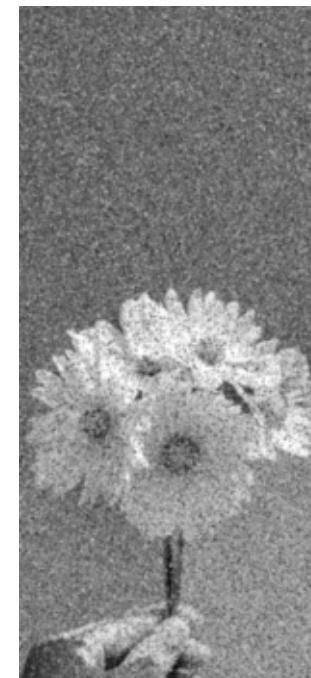
Original Image



Noisy Image



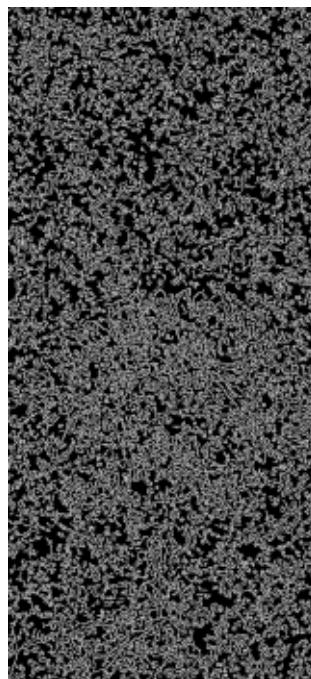
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

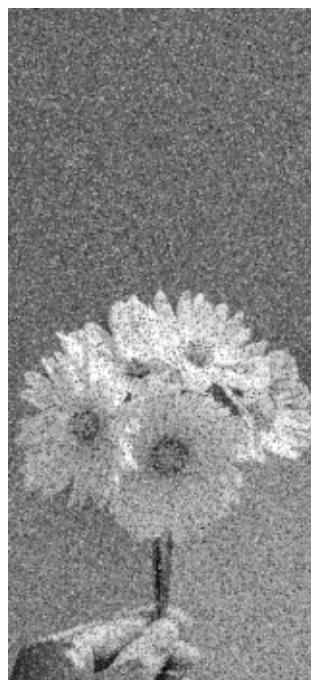


Box Filter - Kernel Size: 9x9  
MSE: 55.93, PSNR: 30.65 dB, FOM: 0.01

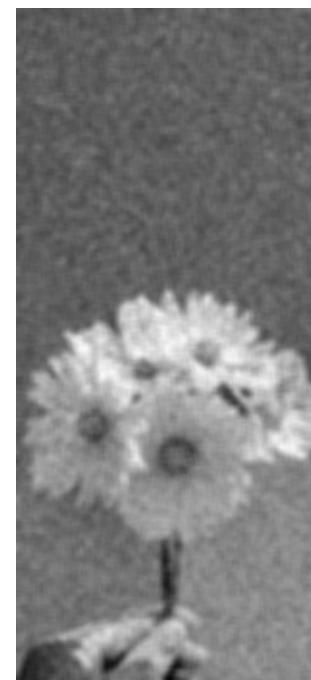
Original Image



Noisy Image



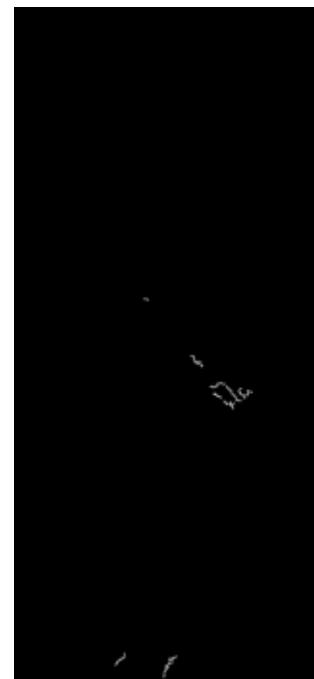
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

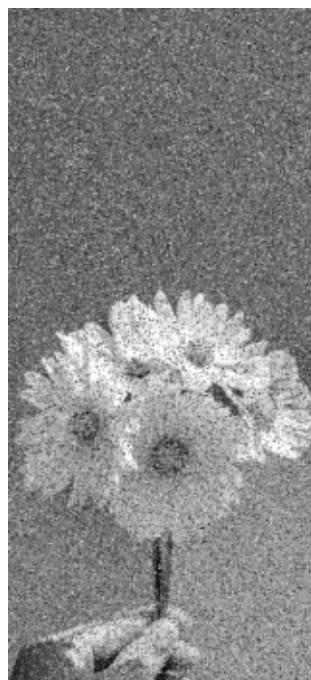


Box Filter - Kernel Size: 15x15  
MSE: 46.61, PSNR: 31.45 dB, FOM: 0.00

Original Image



Noisy Image



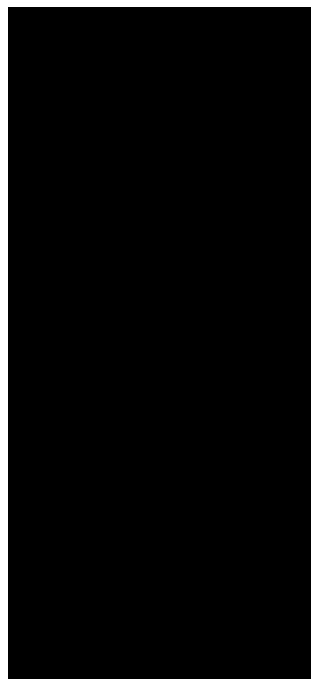
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

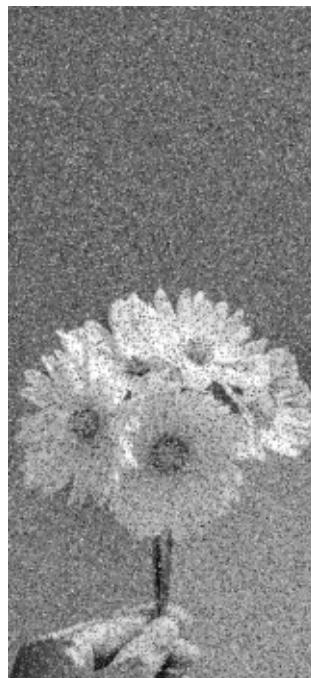


Gaussian Filter - Kernel Size: 3x3  
MSE: 80.49, PSNR: 29.07 dB, FOM: 0.05

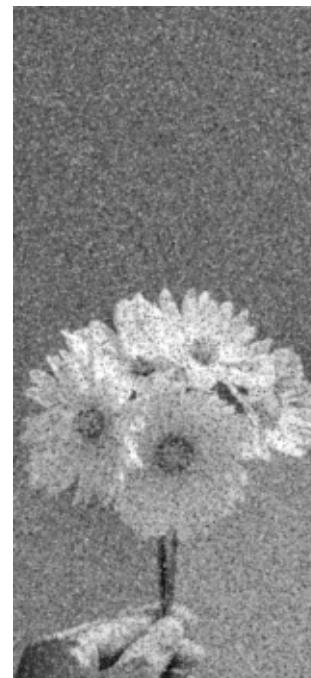
Original Image



Noisy Image



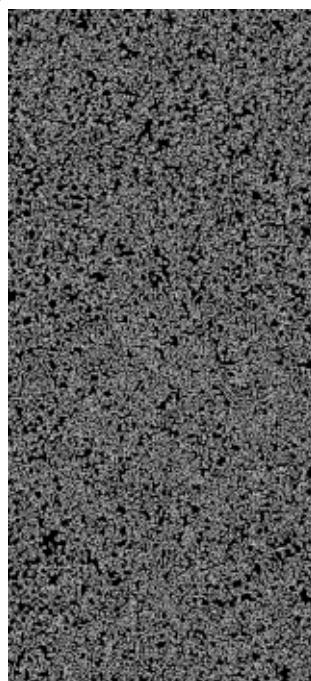
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

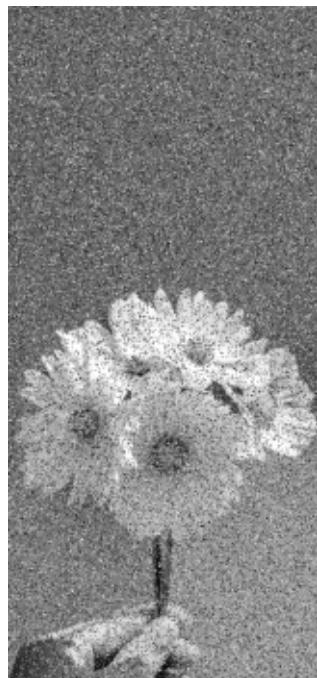


Gaussian Filter - Kernel Size: 9x9  
MSE: 66.23, PSNR: 29.92 dB, FOM: 0.14

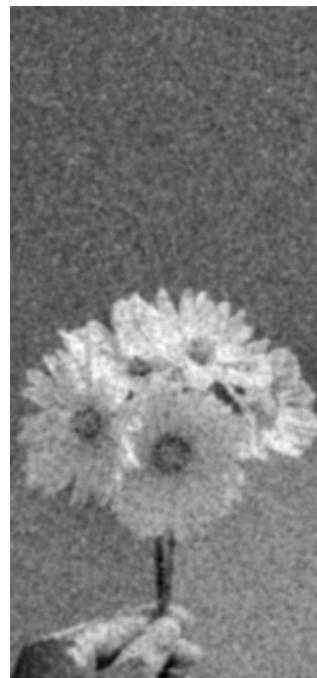
Original Image



Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

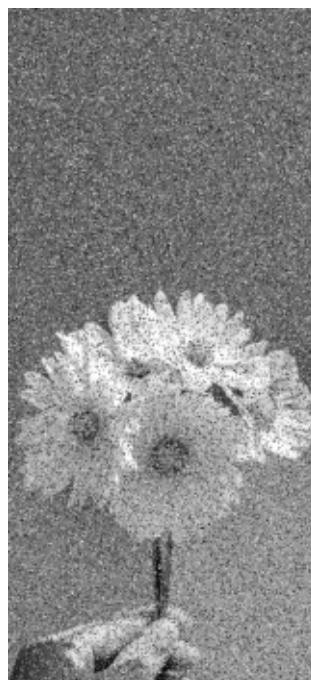


Gaussian Filter - Kernel Size: 15x15  
MSE: 55.31, PSNR: 30.70 dB, FOM: 0.01

Original Image



Noisy Image



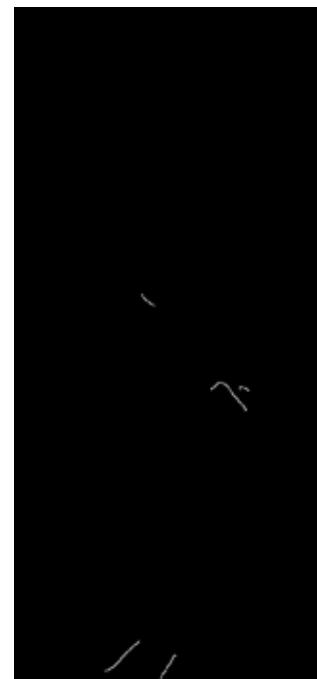
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

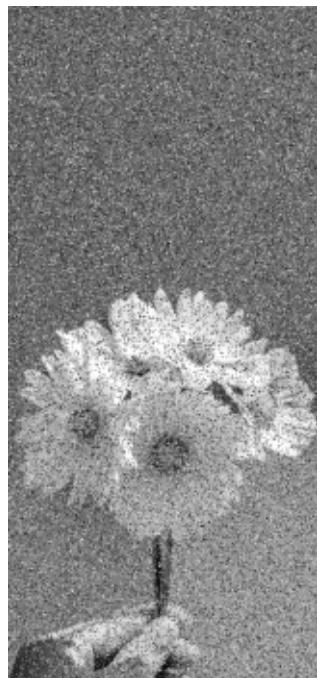


Median Filter - Kernel Size: 3x3  
MSE: 5.81, PSNR: 40.49 dB, FOM: 0.45

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

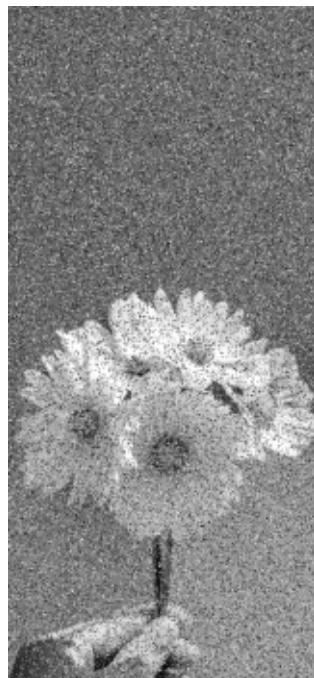


Median Filter - Kernel Size: 9x9  
MSE: 13.29, PSNR: 36.90 dB, FOM: 0.19

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

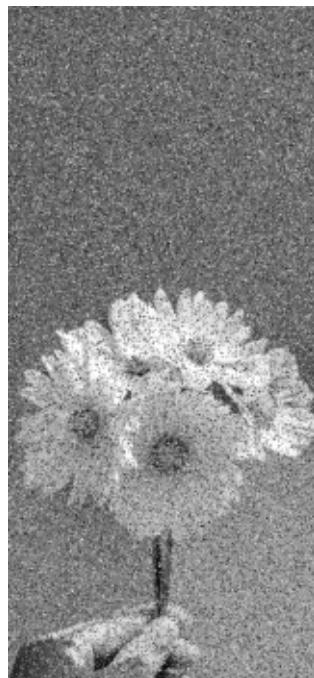


Median Filter - Kernel Size: 15x15  
MSE: 17.38, PSNR: 35.73 dB, FOM: 0.08

Original Image



Noisy Image



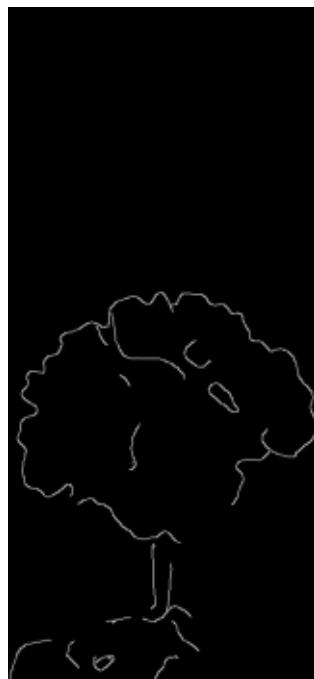
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

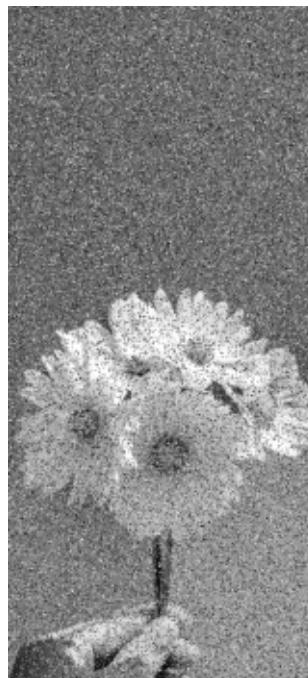


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 107.93, PSNR: 27.80 dB, FOM: 0.04

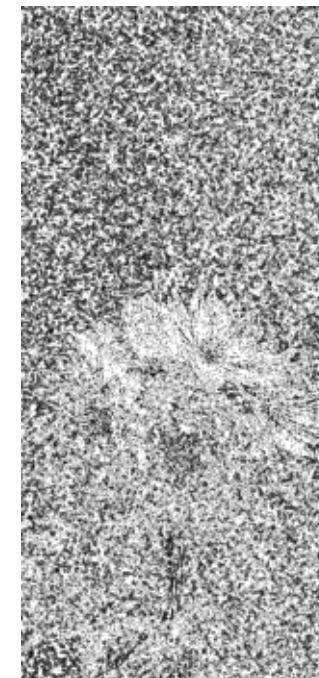
Original Image



Noisy Image



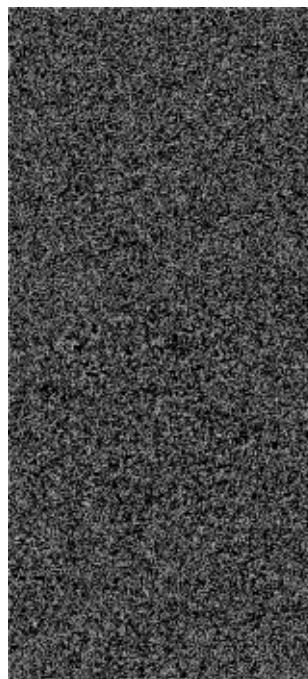
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

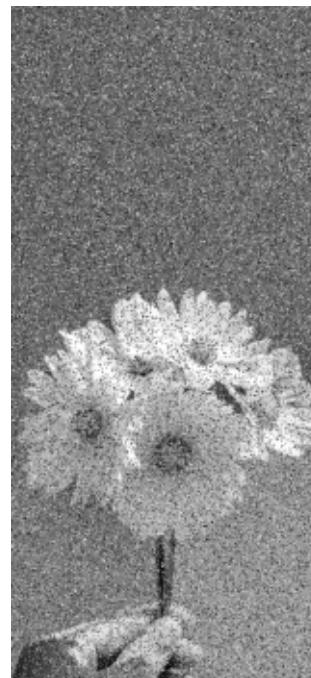


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 109.10, PSNR: 27.75 dB, FOM: 0.05

Original Image



Noisy Image



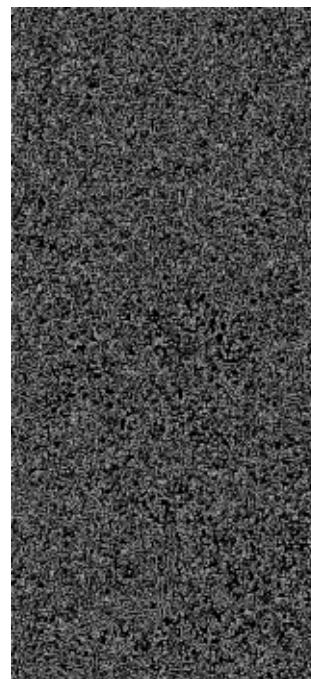
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

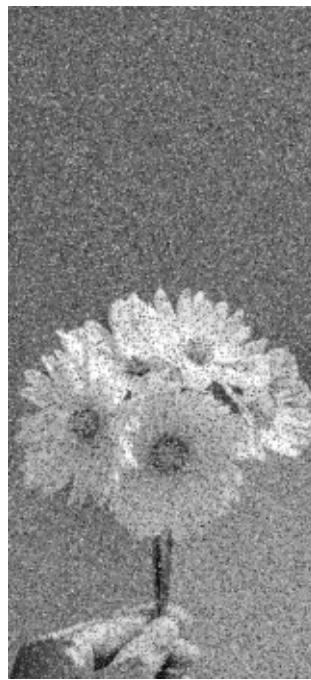


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 109.24, PSNR: 27.75 dB, FOM: 0.05

Original Image



Noisy Image



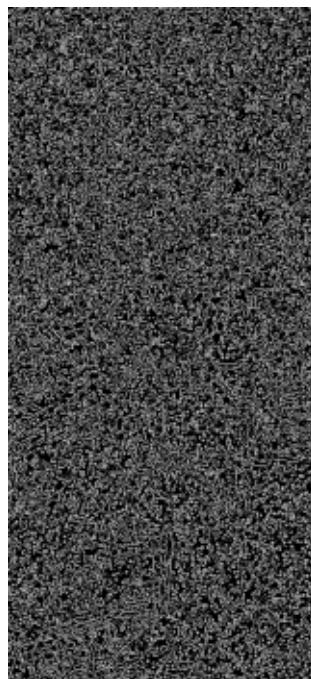
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

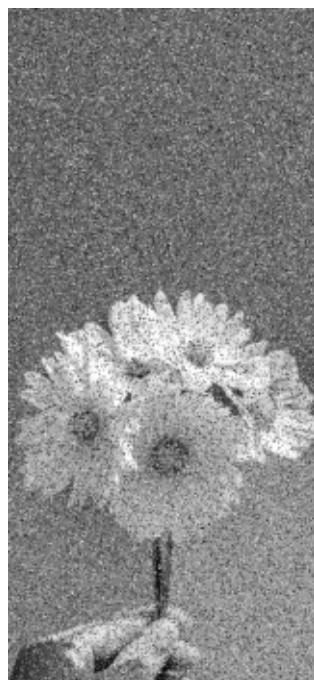


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 2.28, PSNR: 44.56 dB, FOM: 0.62

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

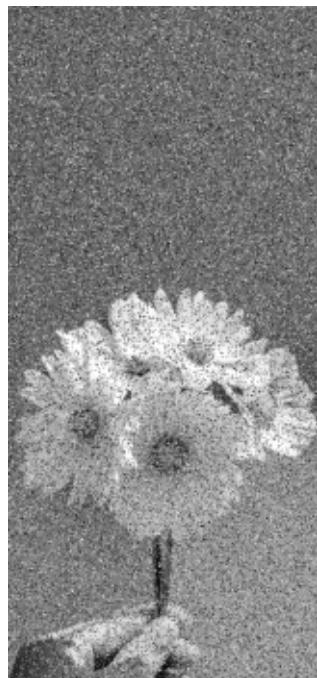


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 2.53, PSNR: 44.10 dB, FOM: 0.63

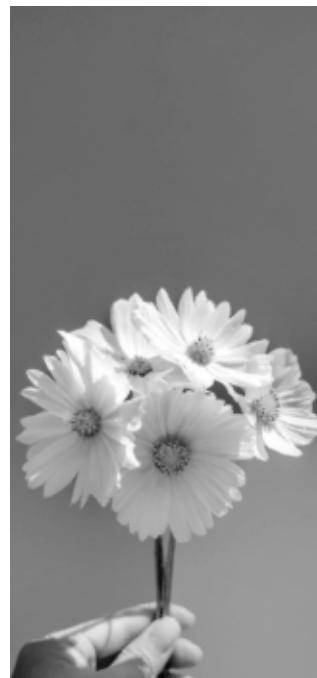
Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

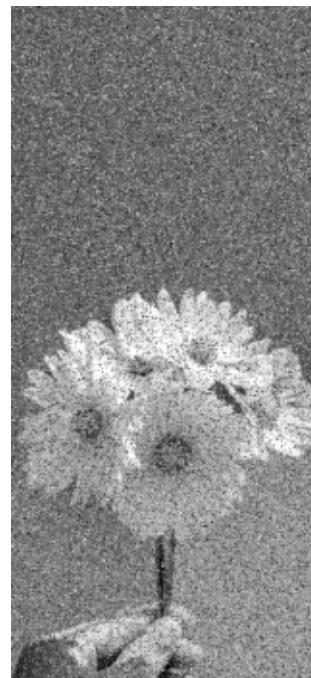


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 3.24, PSNR: 43.03 dB, FOM: 0.53

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

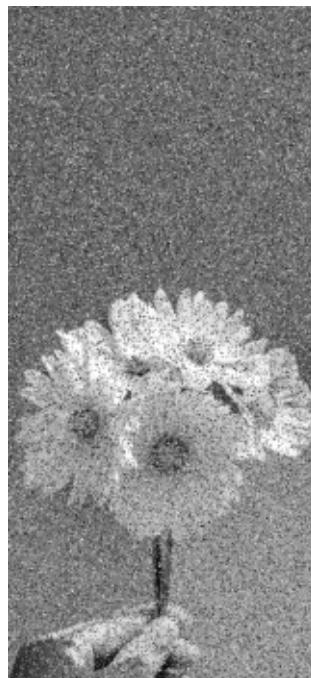


Bilateral Filter - Kernel Size: 3x3  
MSE: 48.76, PSNR: 31.25 dB, FOM: 0.04

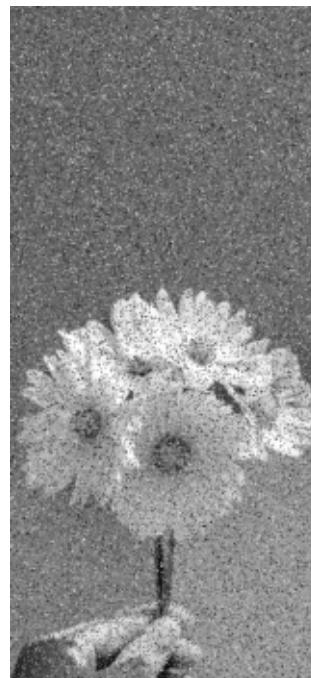
Original Image



Noisy Image



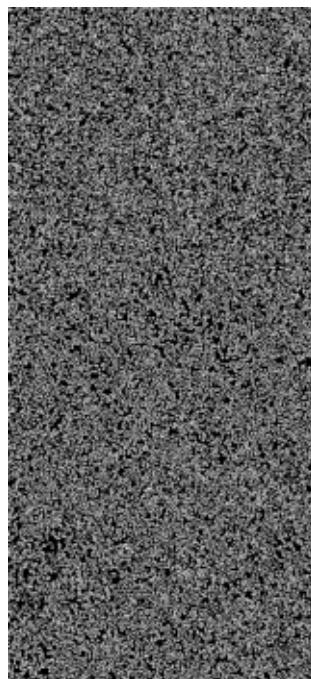
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

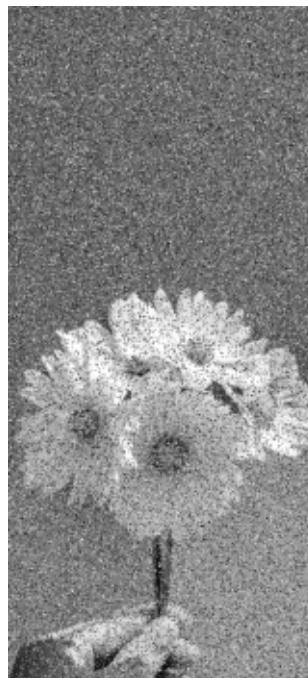


Bilateral Filter - Kernel Size: 9x9  
MSE: 37.46, PSNR: 32.40 dB, FOM: 0.05

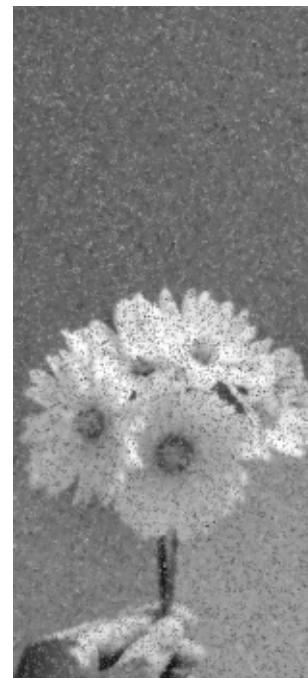
Original Image



Noisy Image



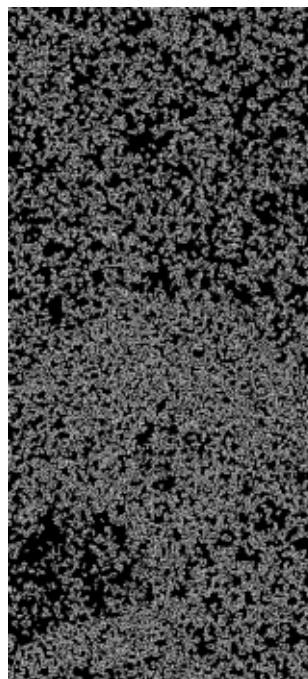
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

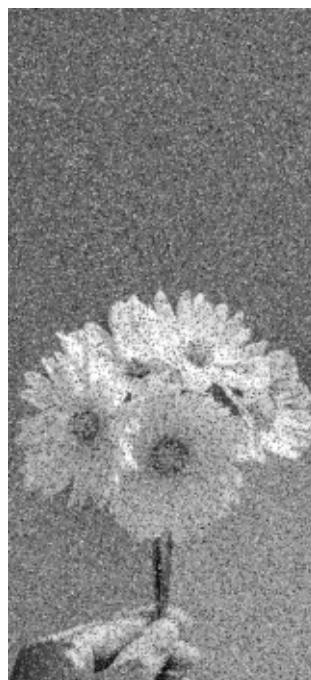


Bilateral Filter - Kernel Size: 15x15  
MSE: 39.04, PSNR: 32.22 dB, FOM: 0.05

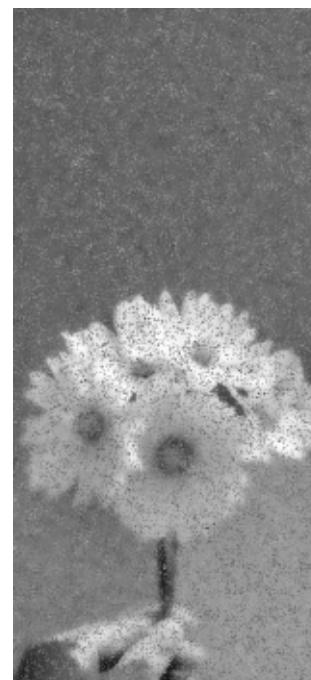
Original Image



Noisy Image



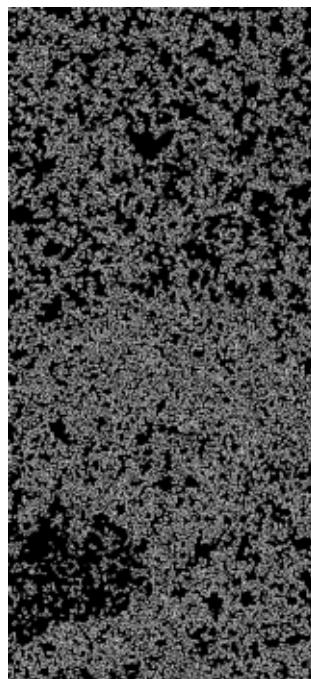
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

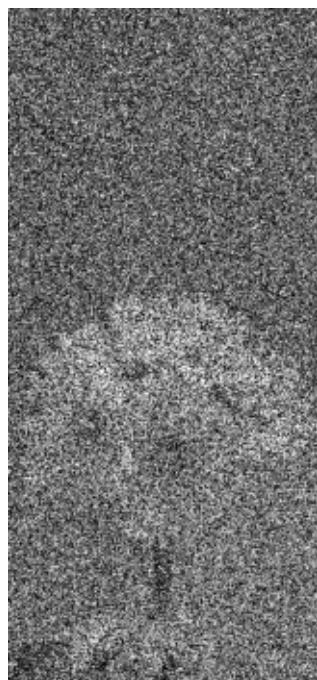


Box Filter - Kernel Size: 3x3  
MSE: 105.84, PSNR: 27.88 dB, FOM: 0.03

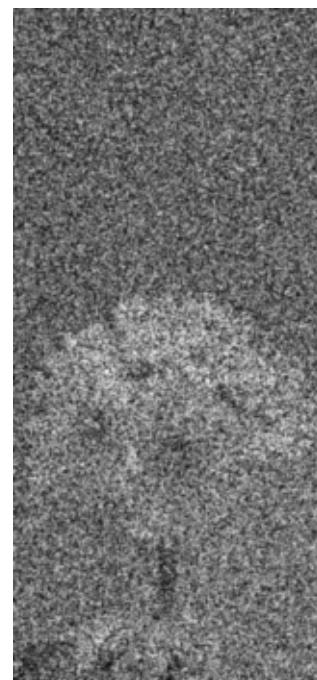
Original Image



Noisy Image



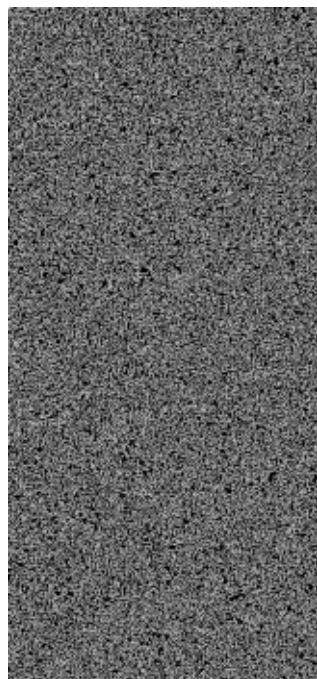
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

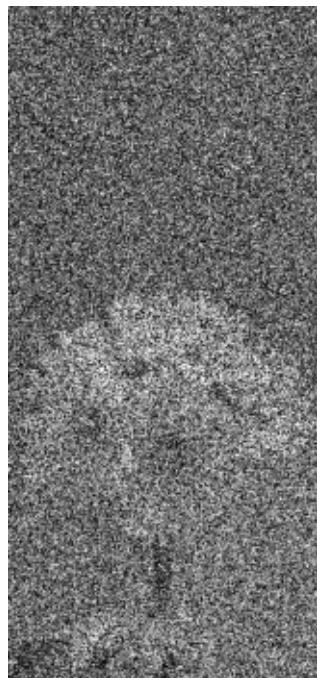


Box Filter - Kernel Size: 9x9  
MSE: 94.11, PSNR: 28.39 dB, FOM: 0.00

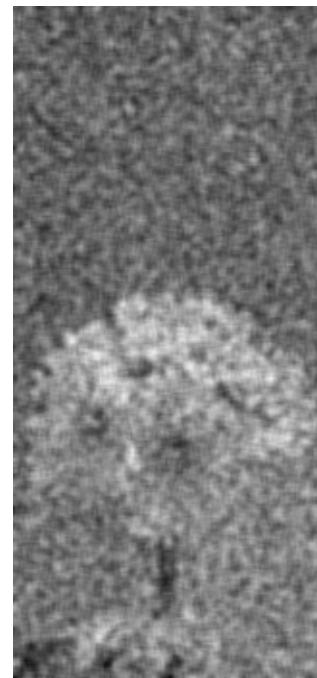
Original Image



Noisy Image



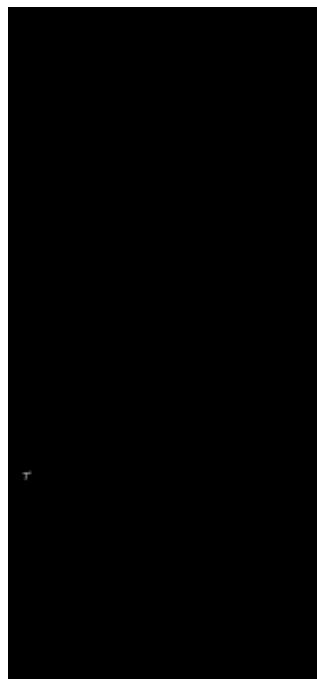
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

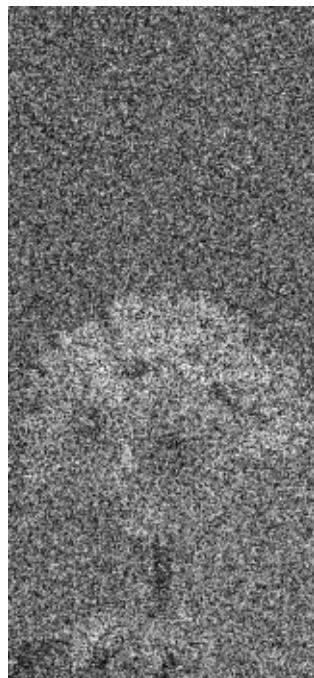


Box Filter - Kernel Size: 15x15  
MSE: 91.16, PSNR: 28.53 dB, FOM: 0.00

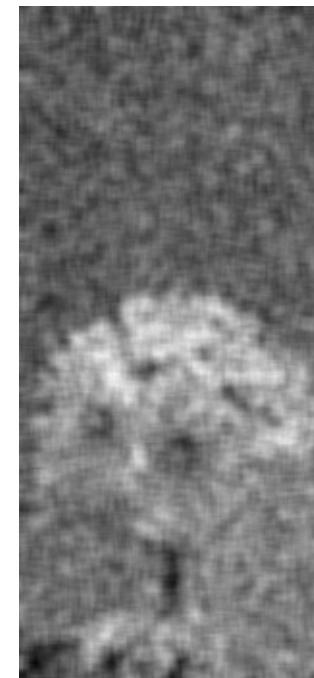
Original Image



Noisy Image



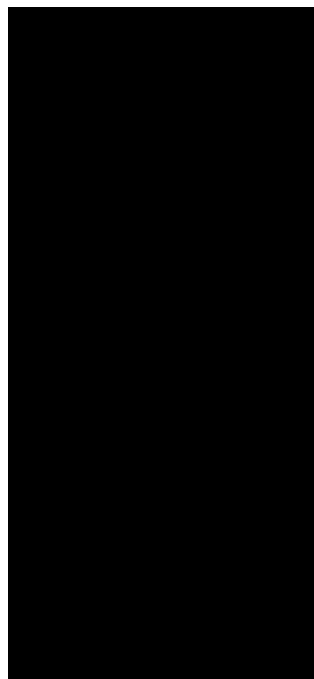
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

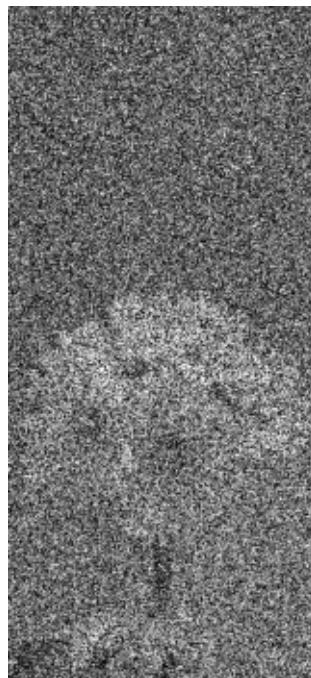


Gaussian Filter - Kernel Size: 3x3  
MSE: 103.88, PSNR: 27.97 dB, FOM: 0.03

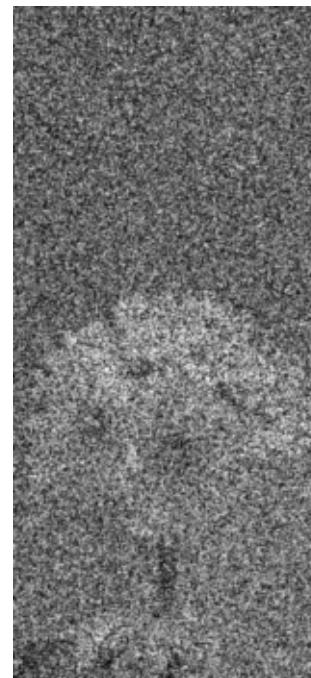
Original Image



Noisy Image



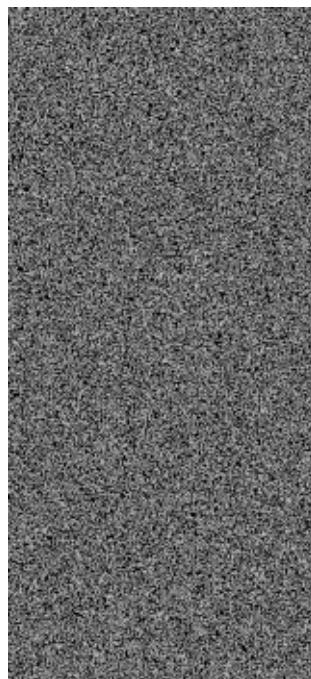
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

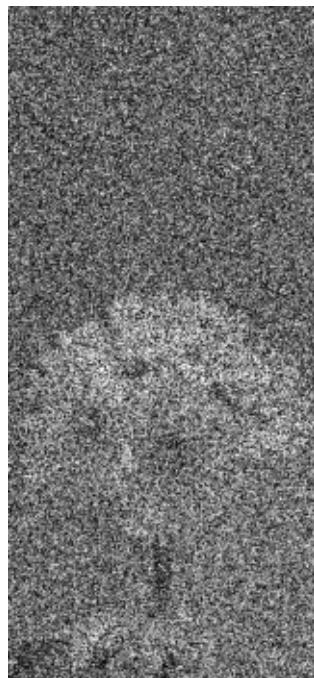


Gaussian Filter - Kernel Size: 9x9  
MSE: 97.67, PSNR: 28.23 dB, FOM: 0.05

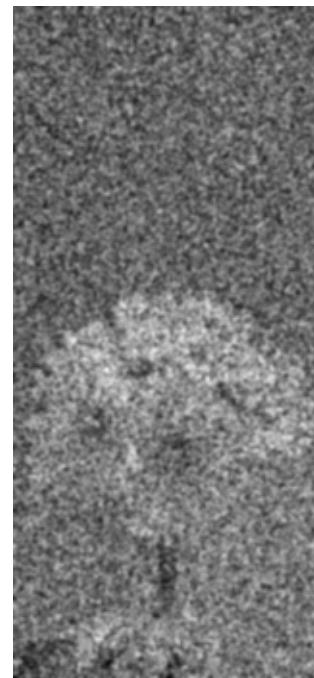
Original Image



Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

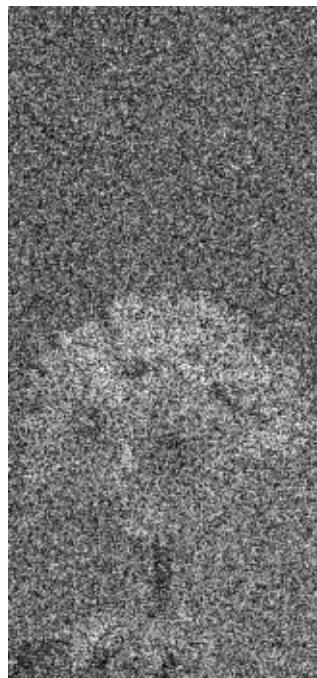


Gaussian Filter - Kernel Size: 15x15  
MSE: 93.67, PSNR: 28.41 dB, FOM: 0.00

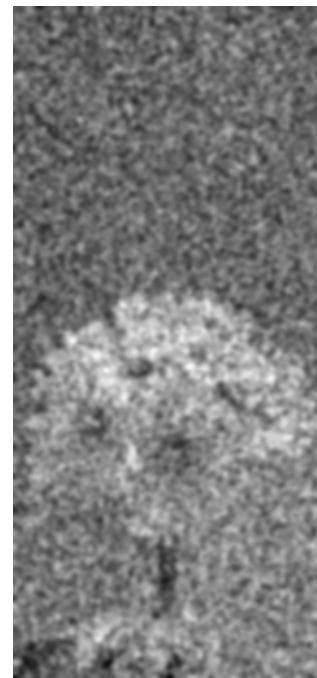
Original Image



Noisy Image



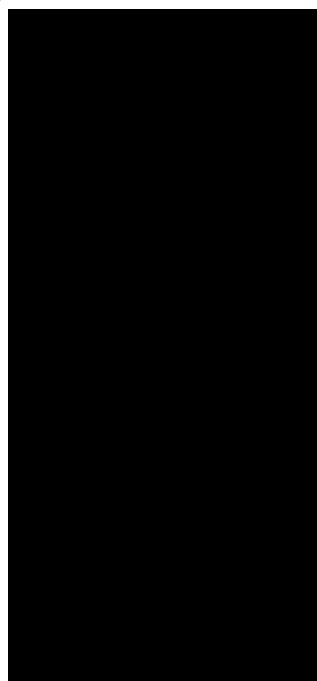
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

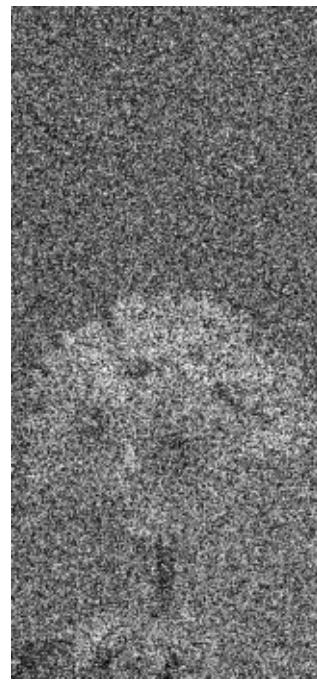


Median Filter - Kernel Size: 3x3  
MSE: 38.51, PSNR: 32.28 dB, FOM: 0.04

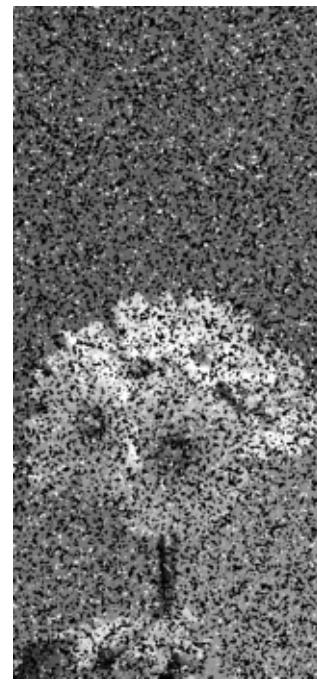
Original Image



Noisy Image



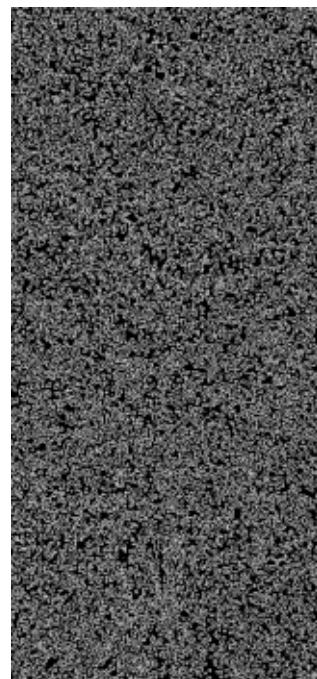
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

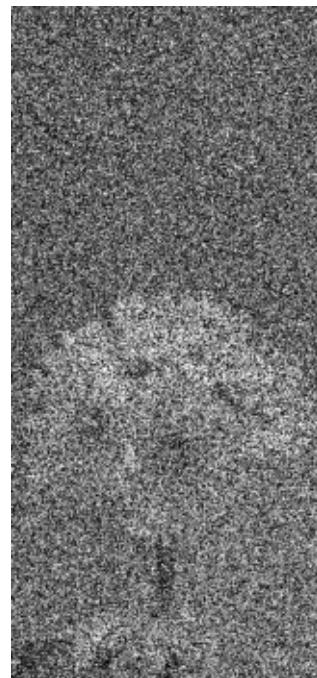


Median Filter - Kernel Size: 9x9  
MSE: 21.31, PSNR: 34.84 dB, FOM: 0.06

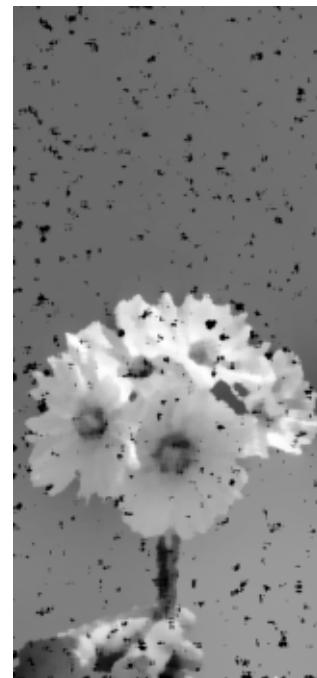
Original Image



Noisy Image



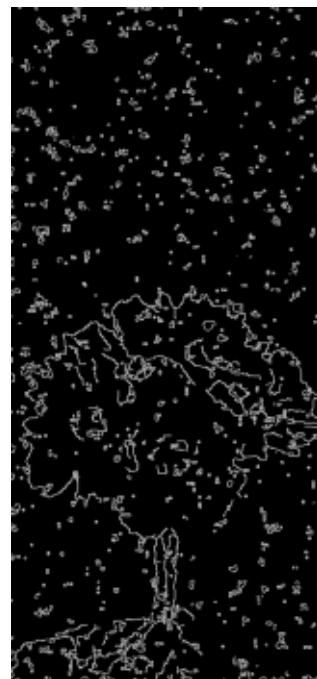
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

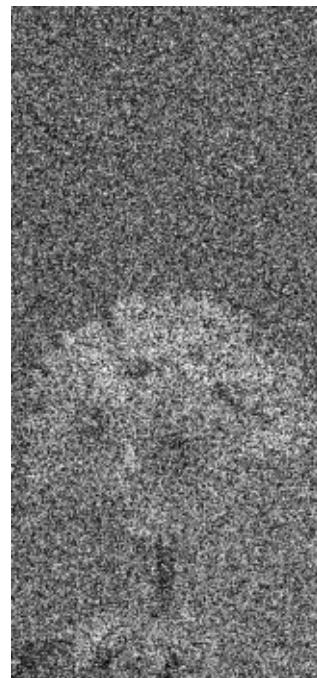


Median Filter - Kernel Size: 15x15  
MSE: 22.56, PSNR: 34.60 dB, FOM: 0.04

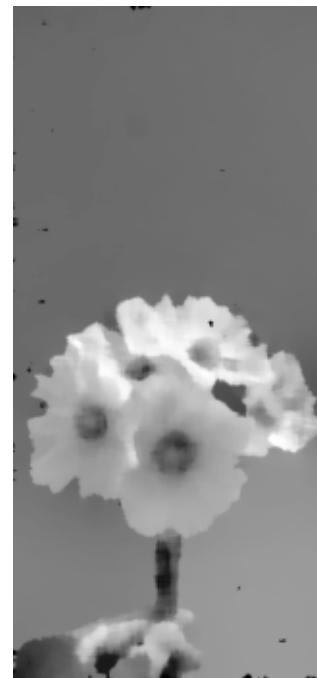
Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

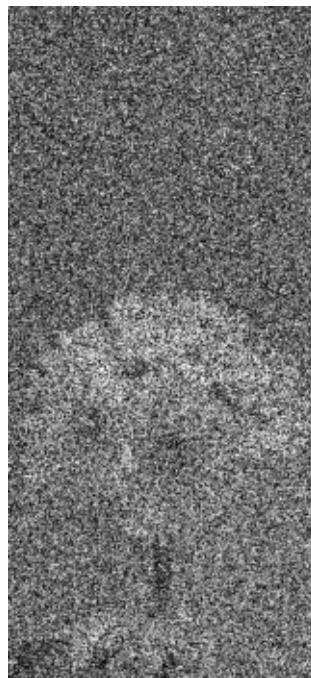


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 107.77, PSNR: 27.81 dB, FOM: 0.03

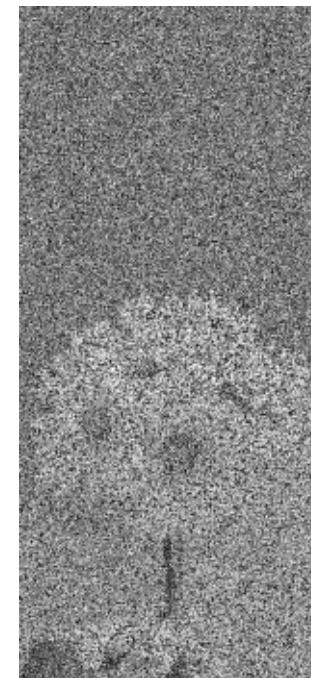
Original Image



Noisy Image



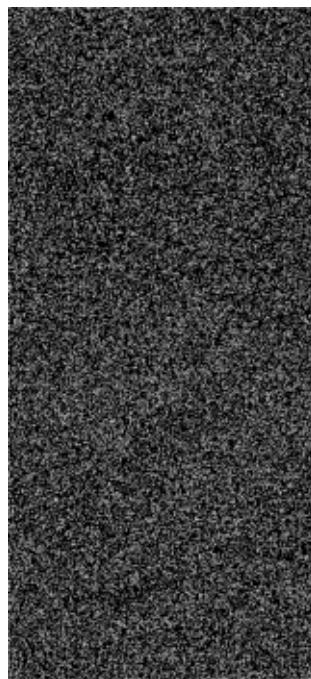
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

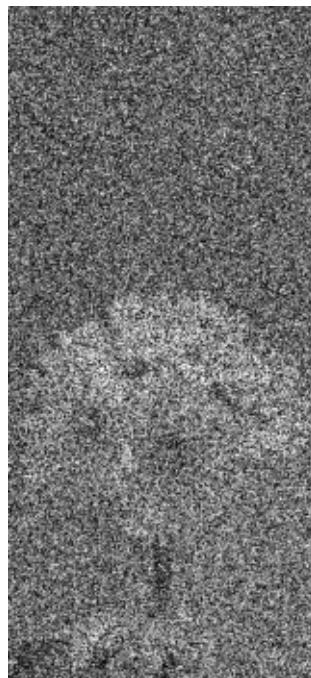


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 108.30, PSNR: 27.78 dB, FOM: 0.03

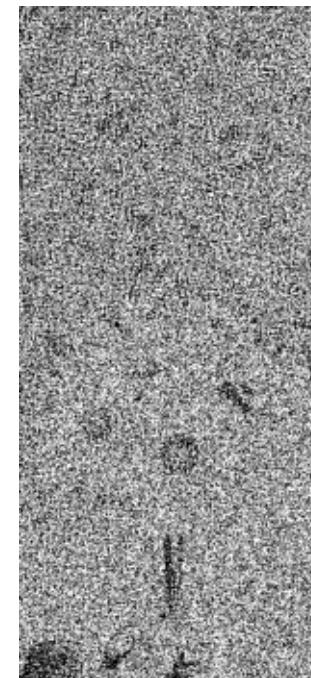
Original Image



Noisy Image



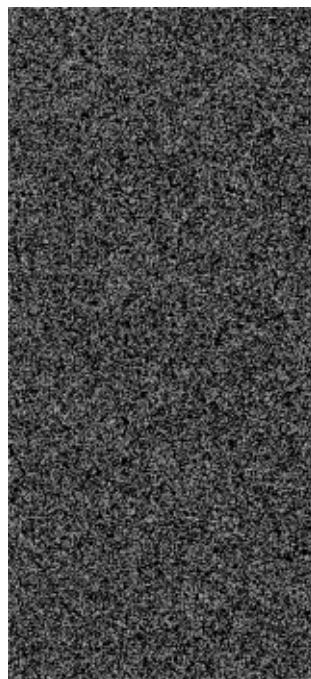
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

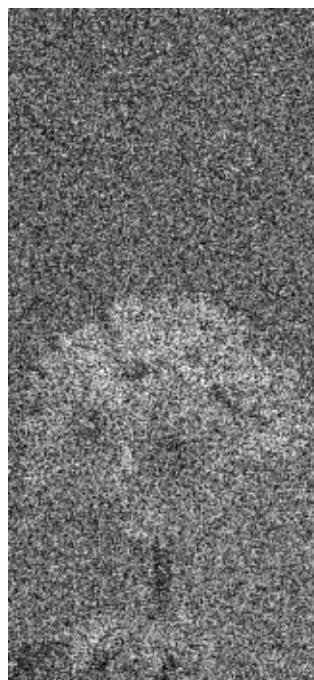


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 108.47, PSNR: 27.78 dB, FOM: 0.03

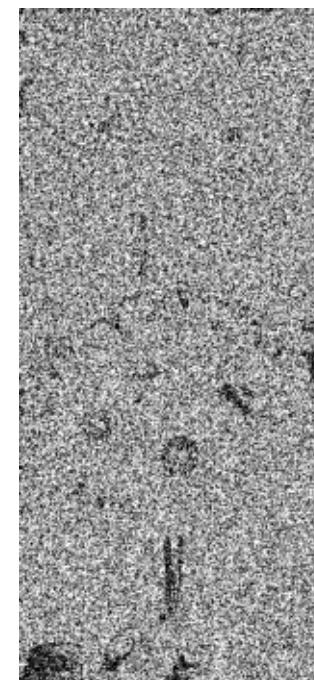
Original Image



Noisy Image



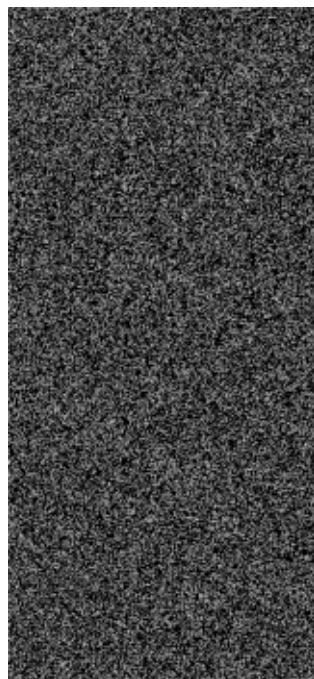
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

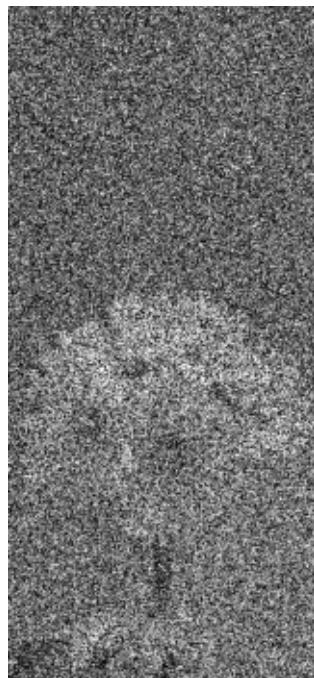


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 36.37, PSNR: 32.52 dB, FOM: 0.04

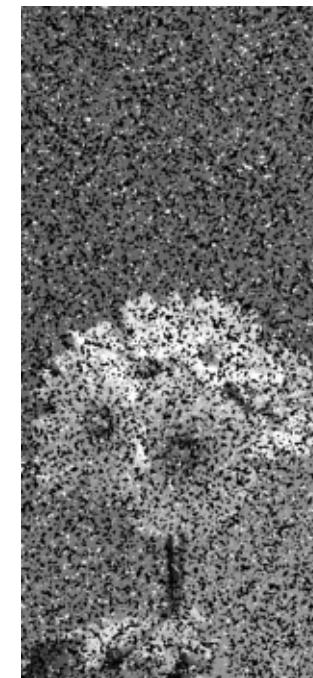
Original Image



Noisy Image



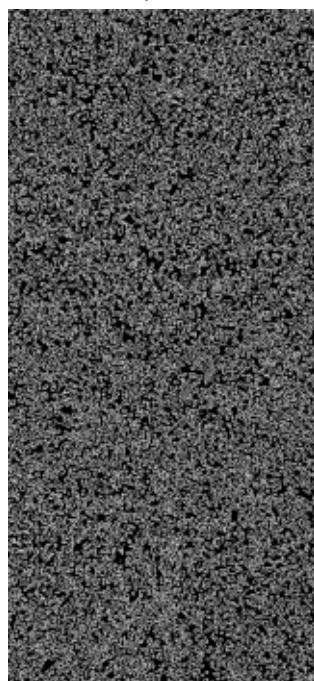
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

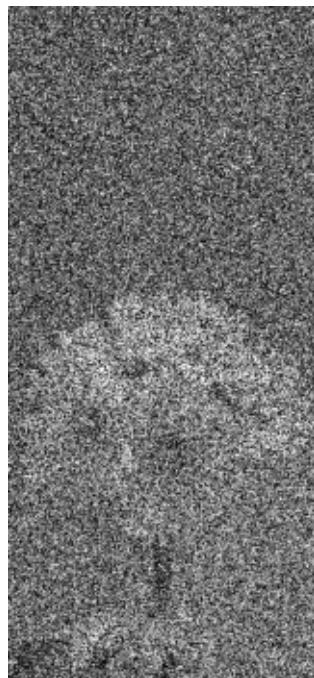


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 14.66, PSNR: 36.47 dB, FOM: 0.14

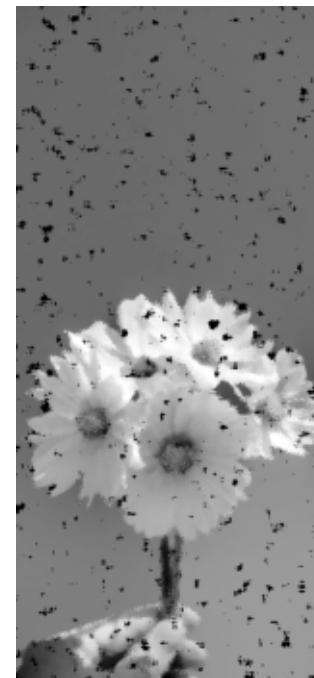
Original Image



Noisy Image



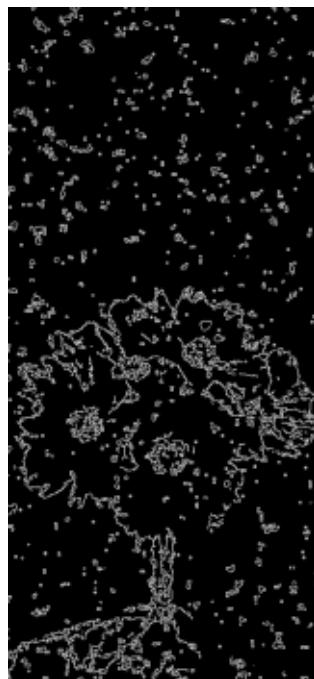
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

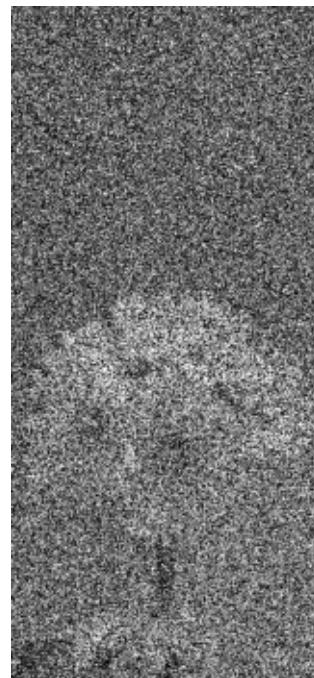


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 14.40, PSNR: 36.55 dB, FOM: 0.19

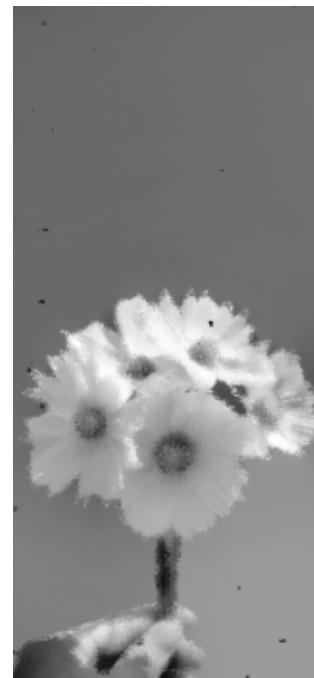
Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

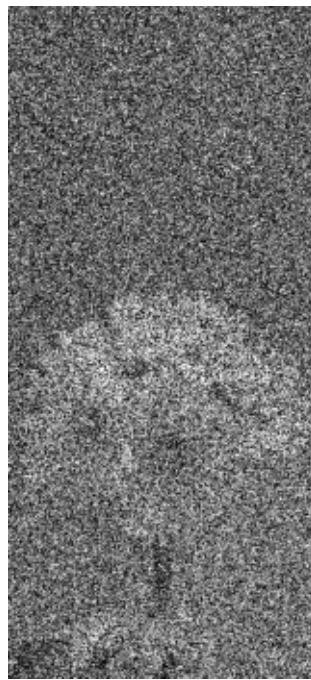


Bilateral Filter - Kernel Size: 3x3  
MSE: 97.96, PSNR: 28.22 dB, FOM: 0.03

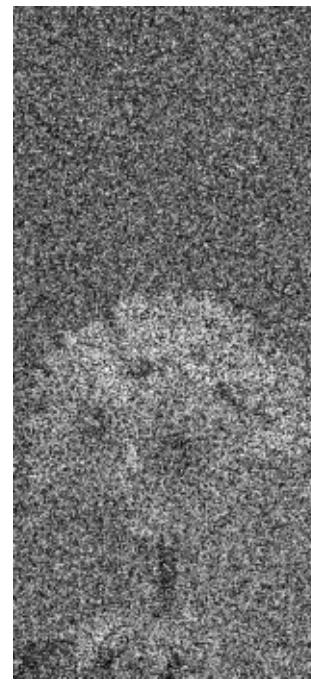
Original Image



Noisy Image



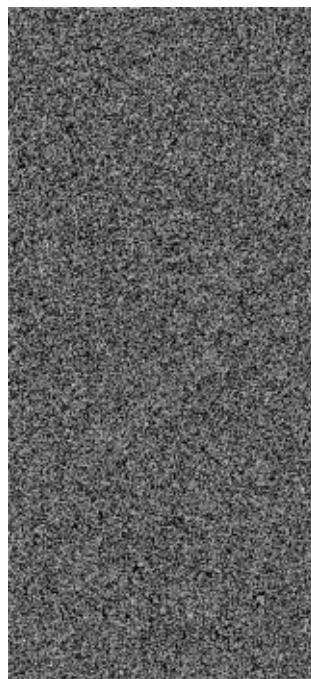
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

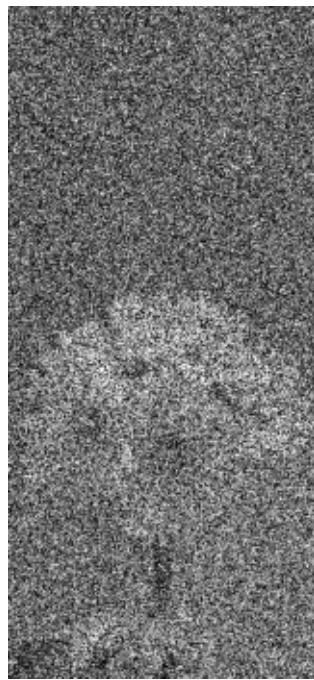


Bilateral Filter - Kernel Size: 9x9  
MSE: 98.28, PSNR: 28.21 dB, FOM: 0.03

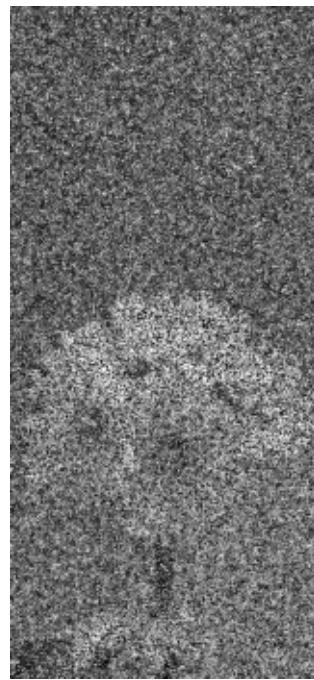
Original Image



Noisy Image



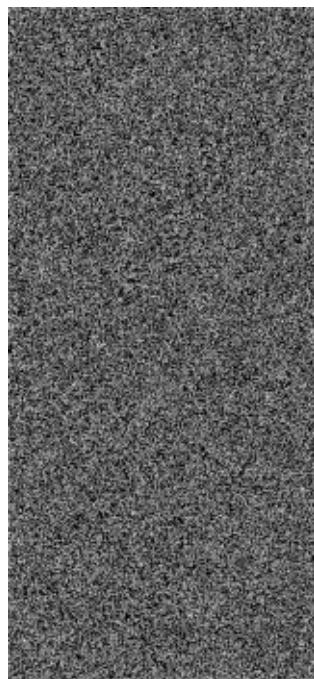
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

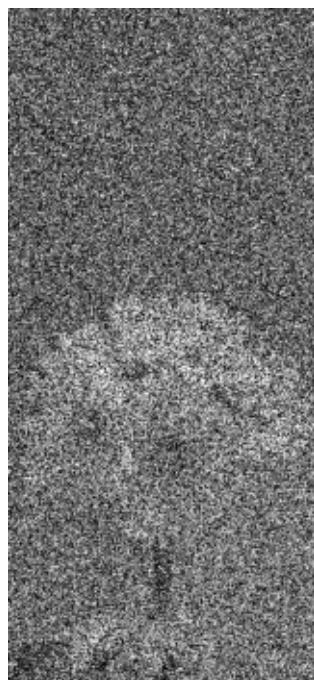


Bilateral Filter - Kernel Size: 15x15  
MSE: 99.17, PSNR: 28.17 dB, FOM: 0.03

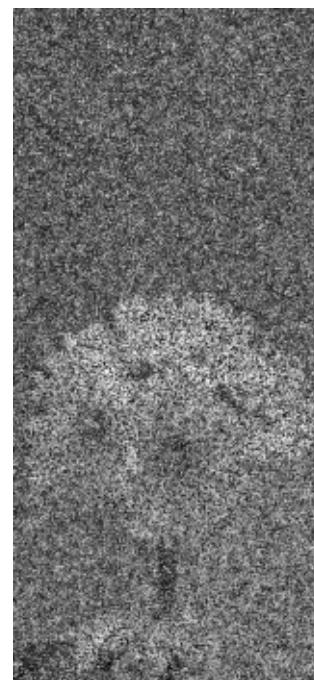
Original Image



Noisy Image



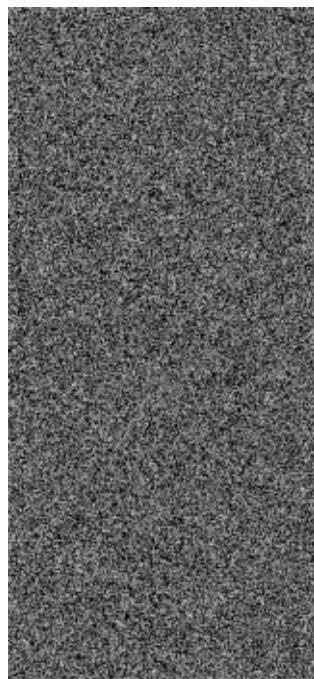
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

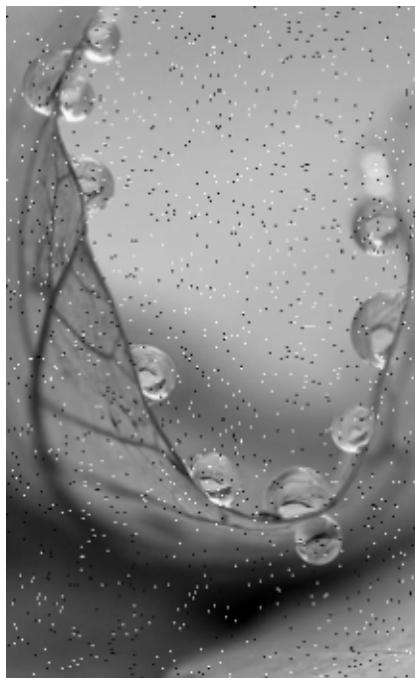


Box Filter - Kernel Size: 3x3  
MSE: 24.61, PSNR: 34.22 dB, FOM: 0.33

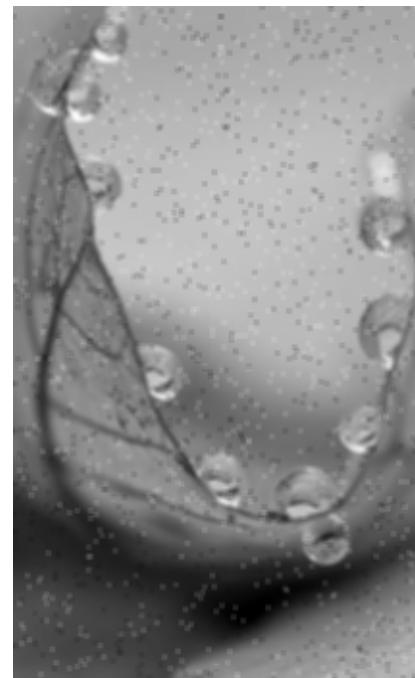
Original Image



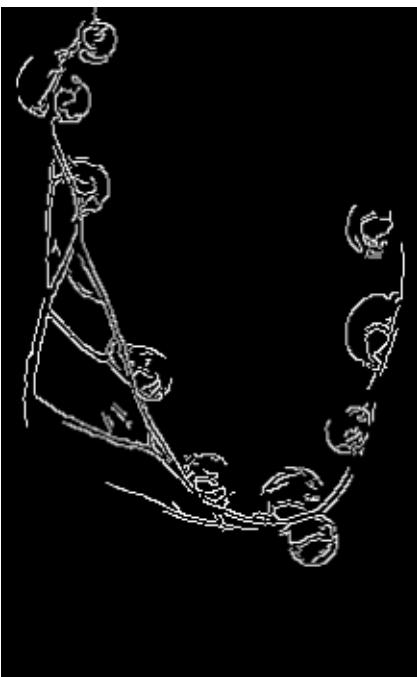
Noisy Image



Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

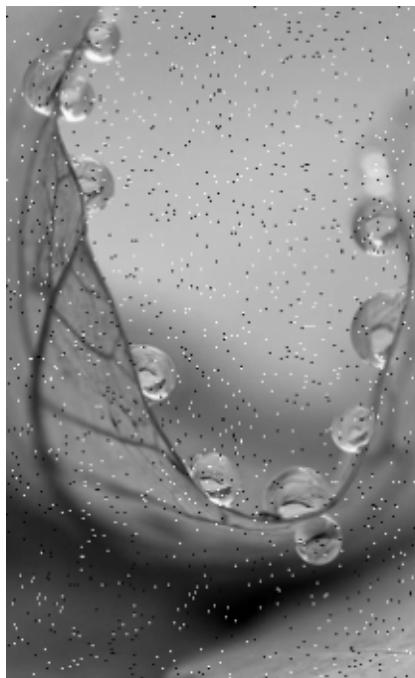


Box Filter - Kernel Size: 9x9  
MSE: 28.01, PSNR: 33.66 dB, FOM: 0.00

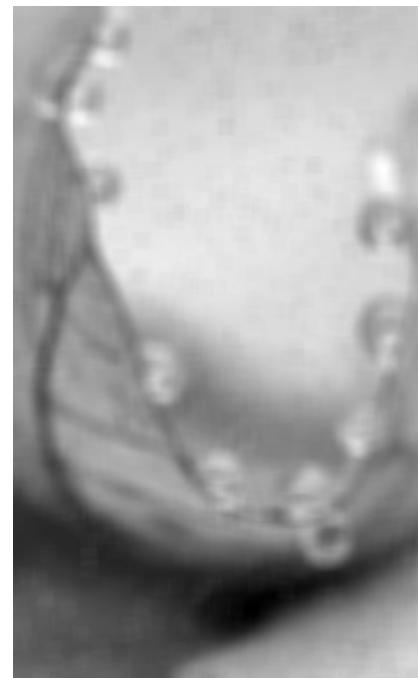
Original Image



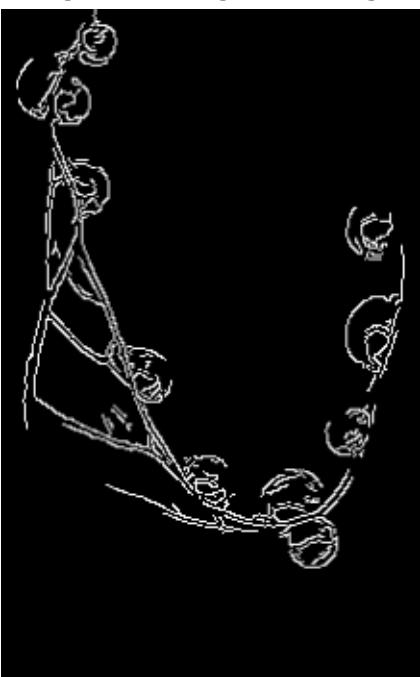
Noisy Image



Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

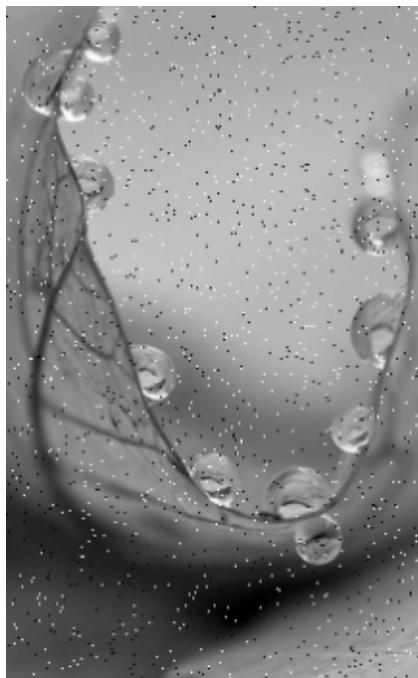


Box Filter - Kernel Size: 15x15  
MSE: 34.87, PSNR: 32.71 dB, FOM: 0.00

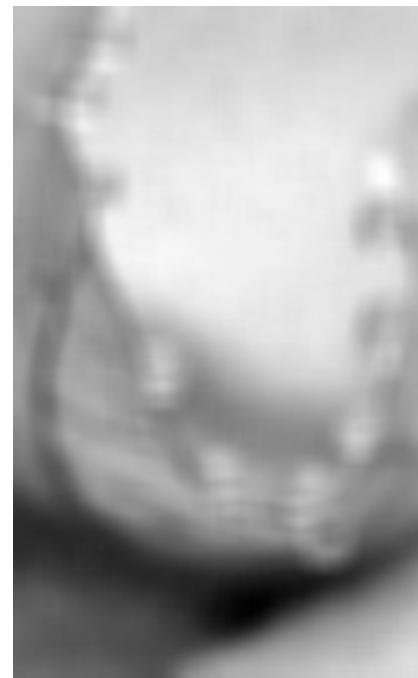
Original Image



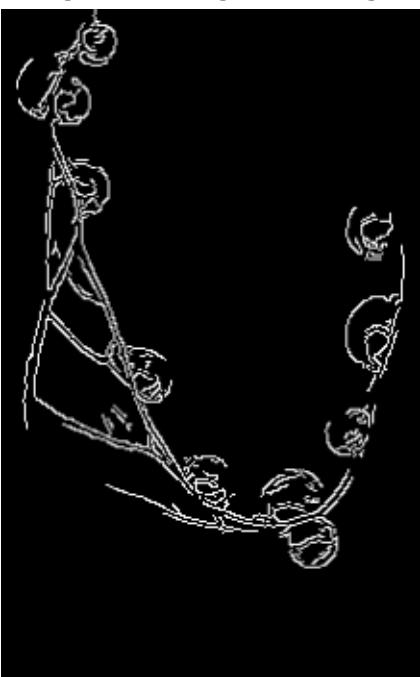
Noisy Image



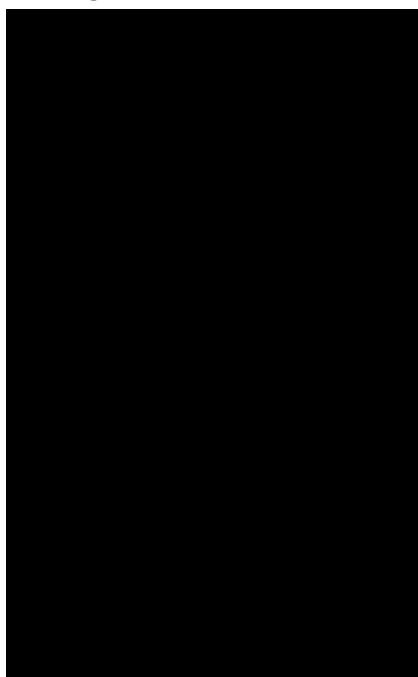
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 20.32, PSNR: 35.05 dB, FOM: 0.30

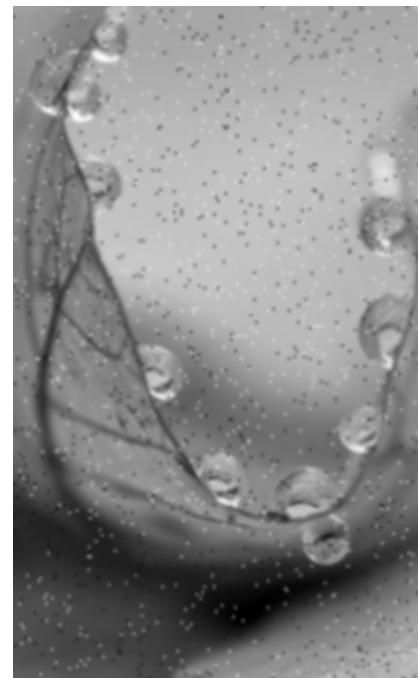
Original Image



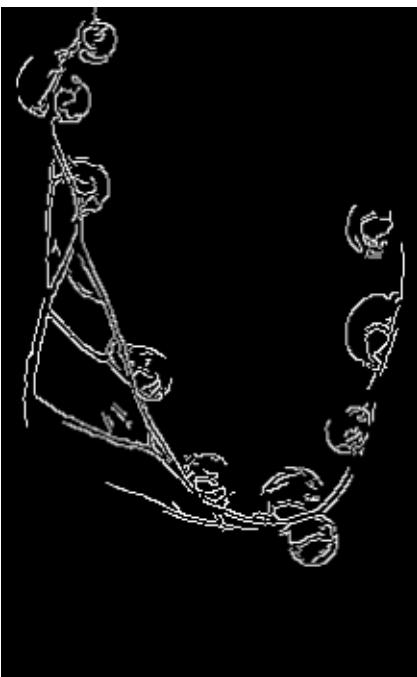
Noisy Image



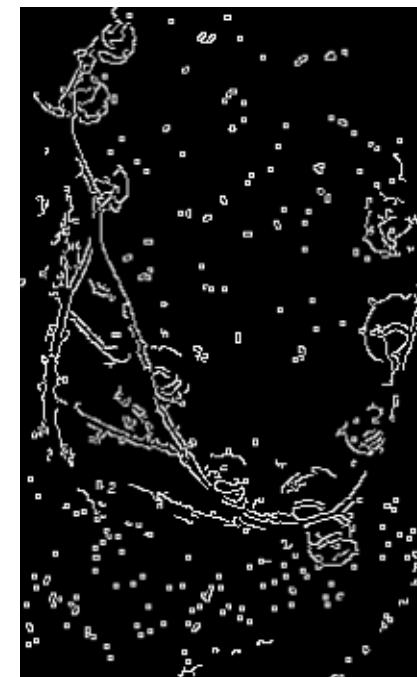
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

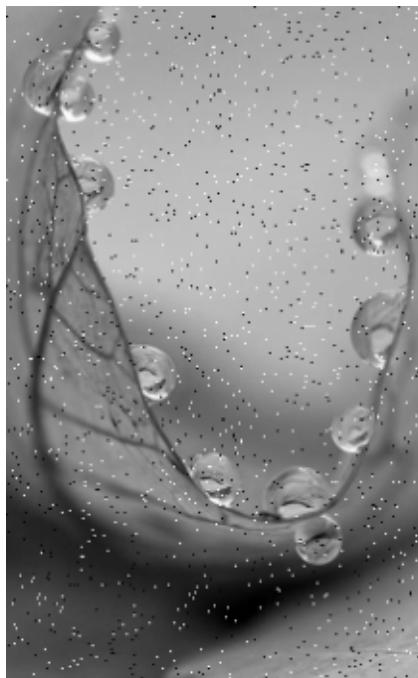


Gaussian Filter - Kernel Size: 9x9  
MSE: 24.30, PSNR: 34.28 dB, FOM: 0.09

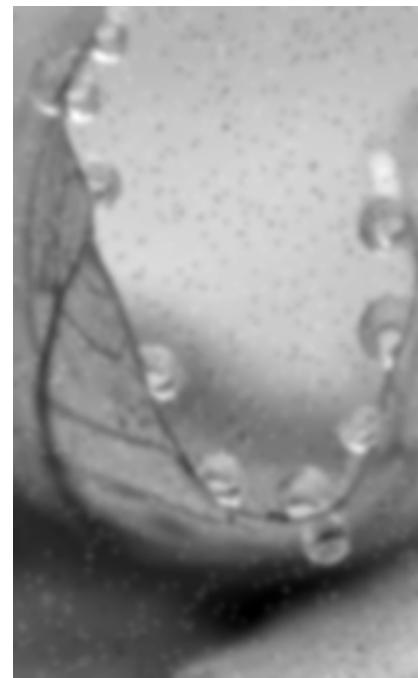
Original Image



Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

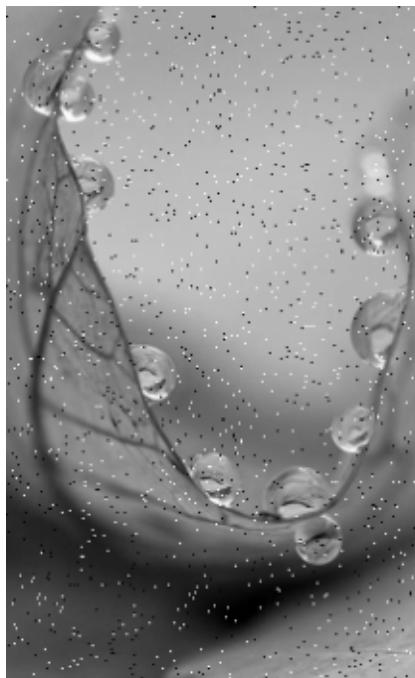


Gaussian Filter - Kernel Size: 15x15  
MSE: 26.35, PSNR: 33.92 dB, FOM: 0.00

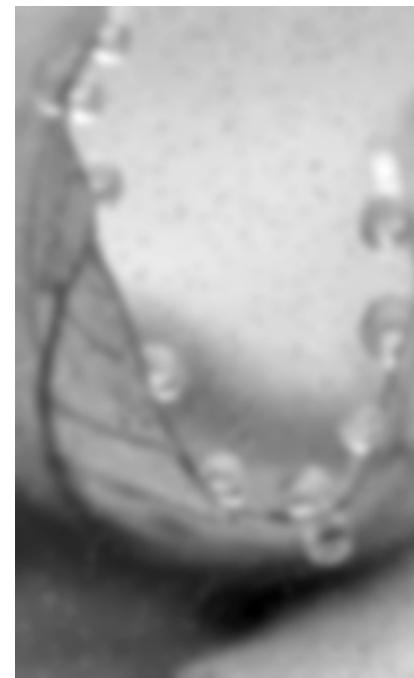
Original Image



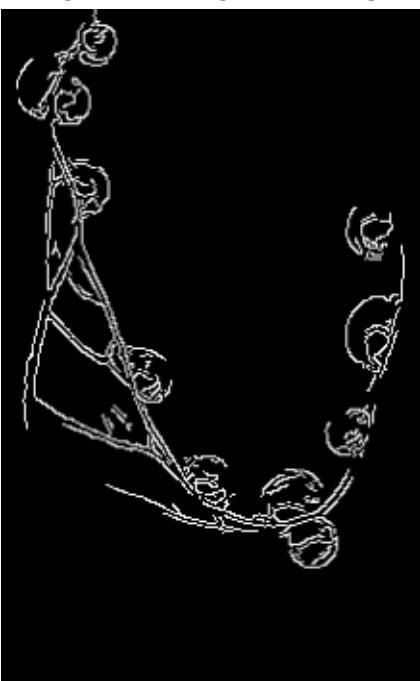
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

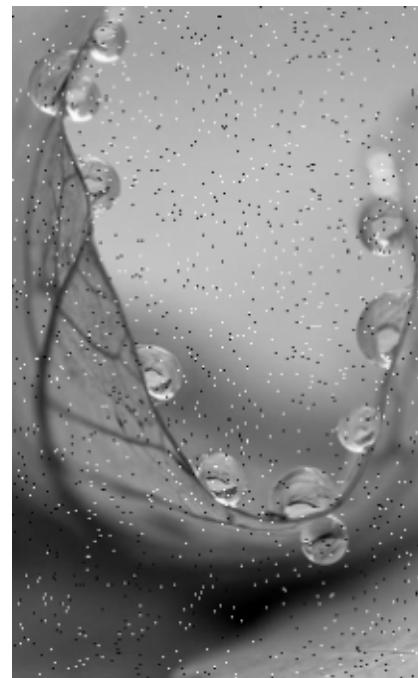


Median Filter - Kernel Size: 3x3  
MSE: 5.21, PSNR: 40.96 dB, FOM: 0.56

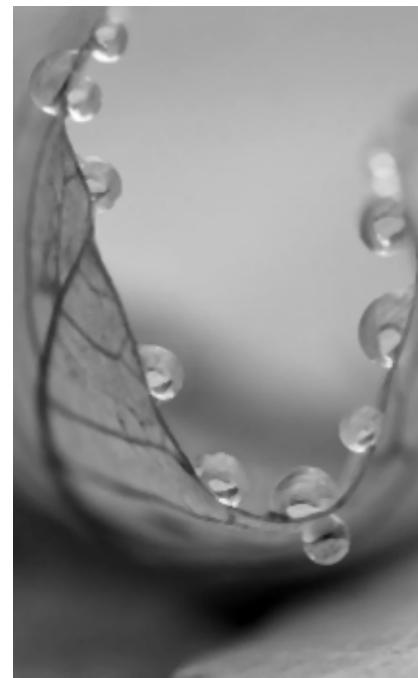
Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

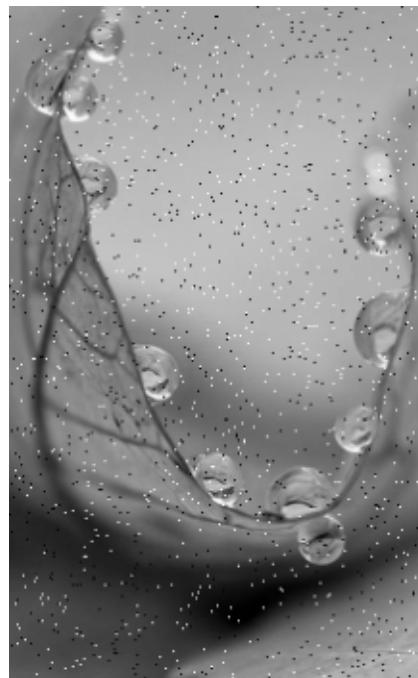


Median Filter - Kernel Size: 9x9  
MSE: 17.09, PSNR: 35.80 dB, FOM: 0.10

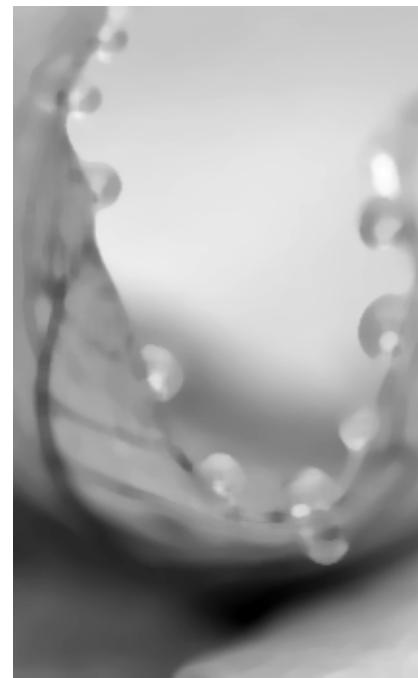
Original Image



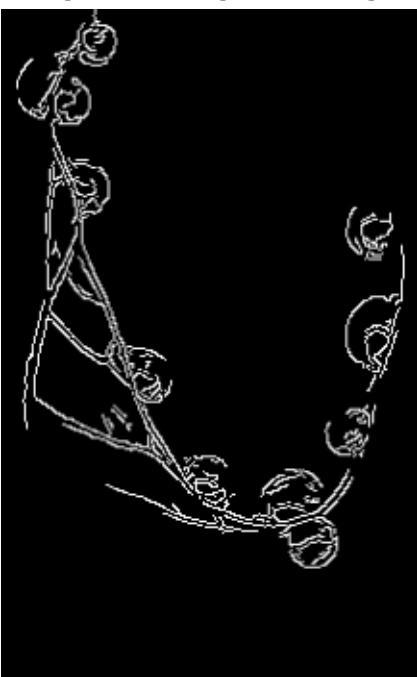
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

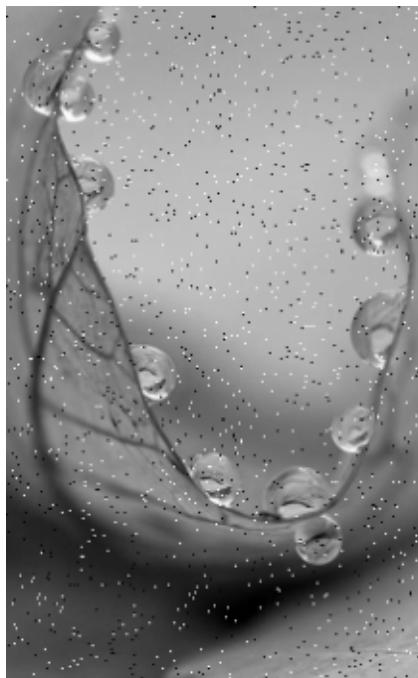


Median Filter - Kernel Size: 15x15  
MSE: 23.73, PSNR: 34.38 dB, FOM: 0.03

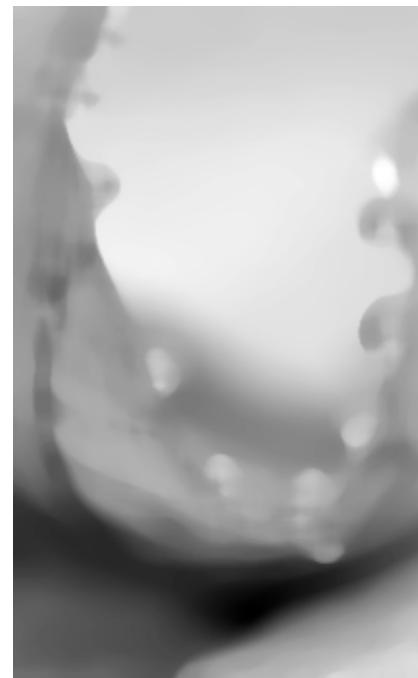
Original Image



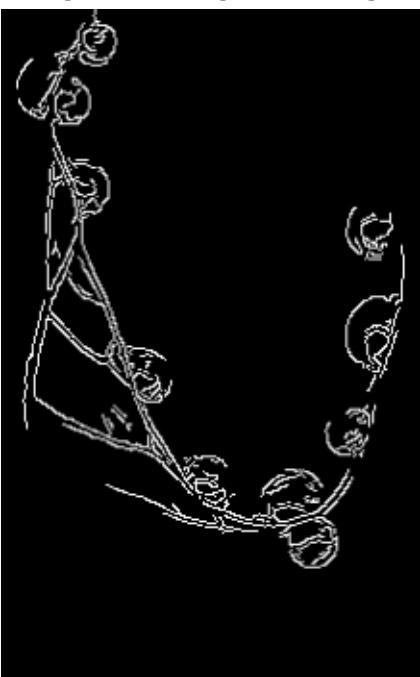
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

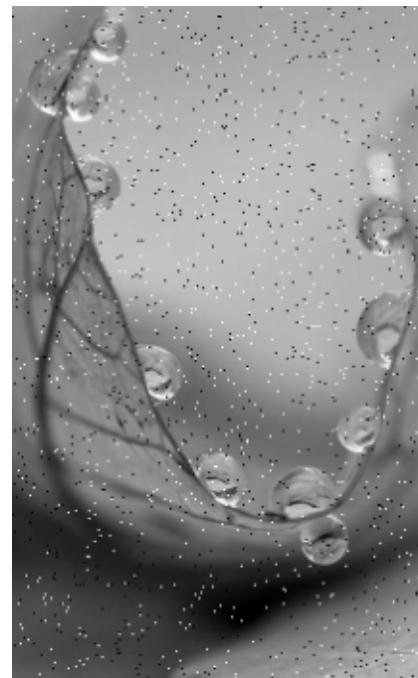


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 102.15, PSNR: 28.04 dB, FOM: 0.09

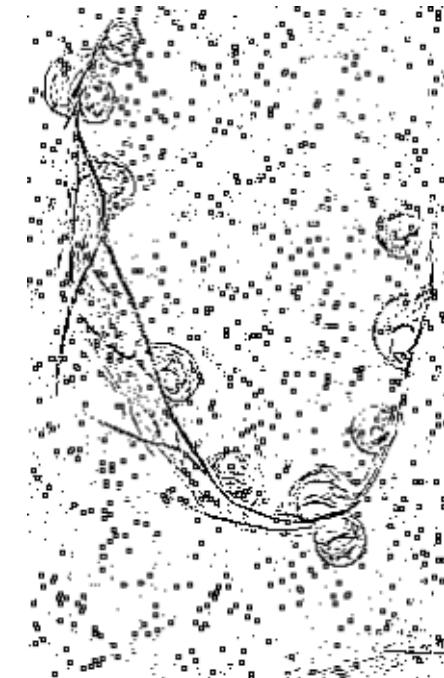
Original Image



Noisy Image



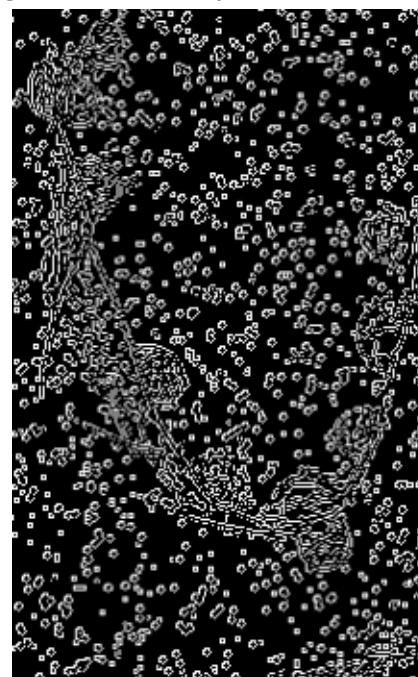
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

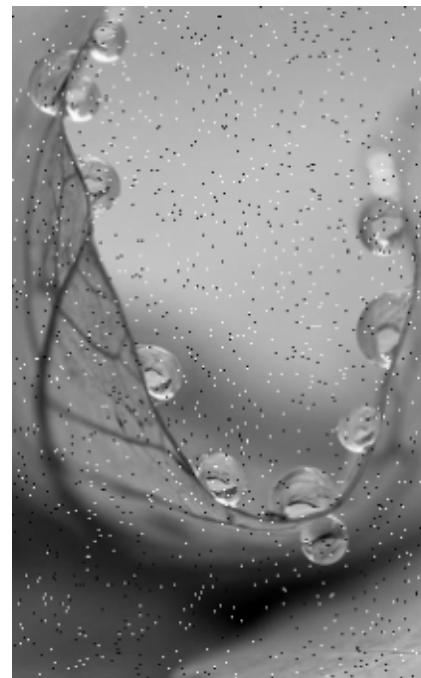


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 102.22, PSNR: 28.04 dB, FOM: 0.16

Original Image



Noisy Image



Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

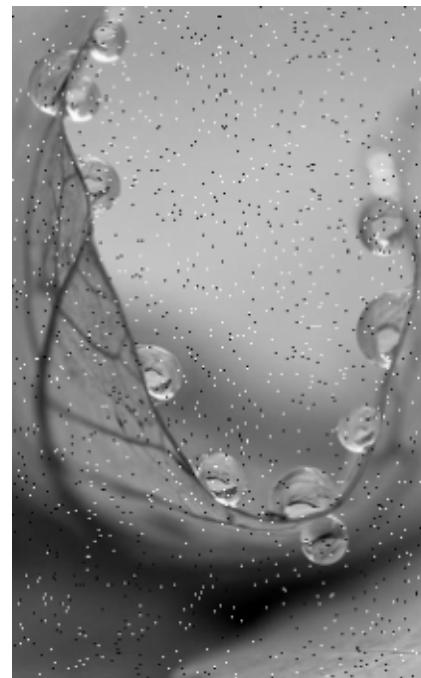


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 102.29, PSNR: 28.03 dB, FOM: 0.15

Original Image



Noisy Image



Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

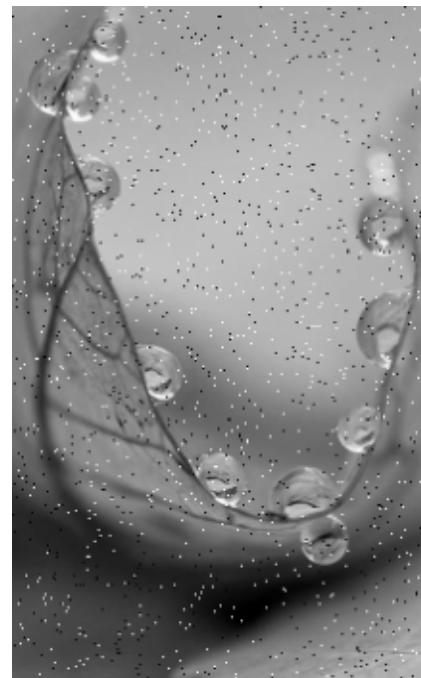


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 1.53, PSNR: 46.28 dB, FOM: 0.80

Original Image



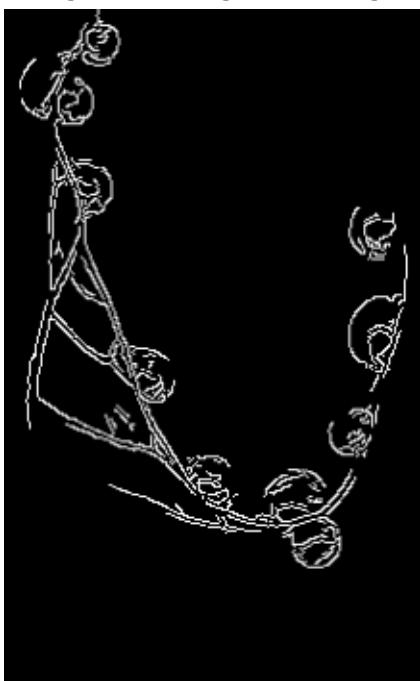
Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

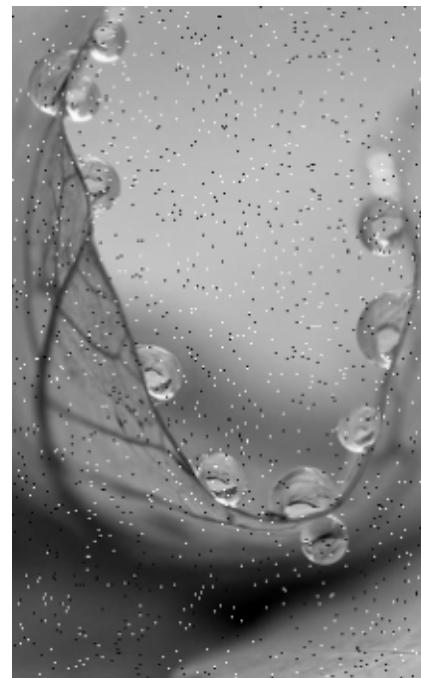


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 0.64, PSNR: 50.04 dB, FOM: 0.87

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

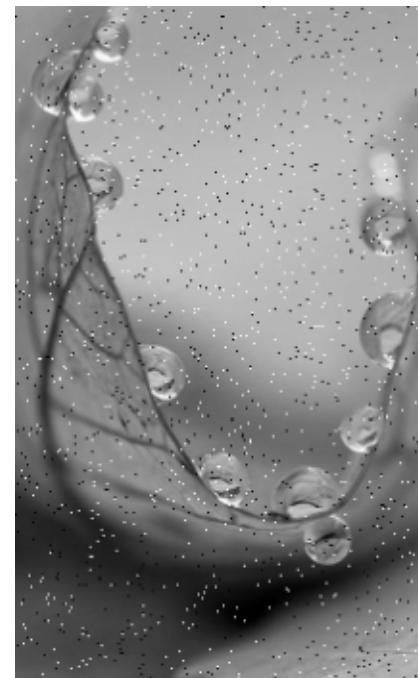


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 0.59, PSNR: 50.41 dB, FOM: 0.88

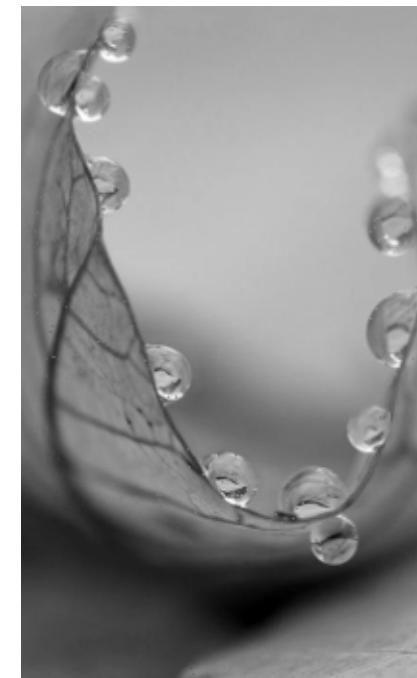
Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

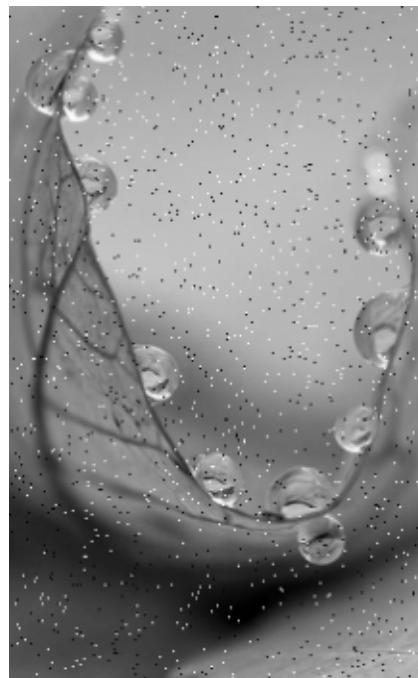


Bilateral Filter - Kernel Size: 3x3  
MSE: 11.10, PSNR: 37.68 dB, FOM: 0.23

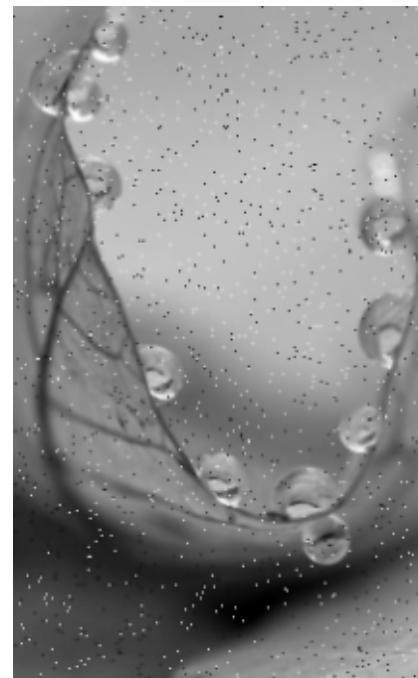
Original Image



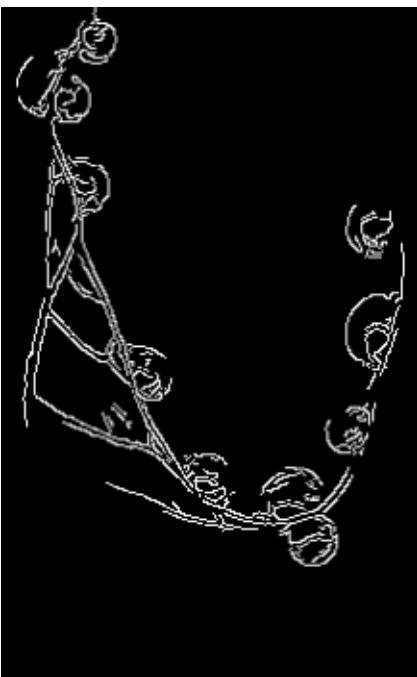
Noisy Image



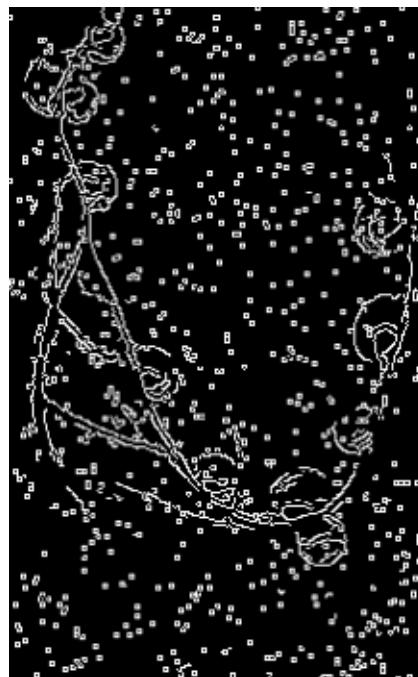
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

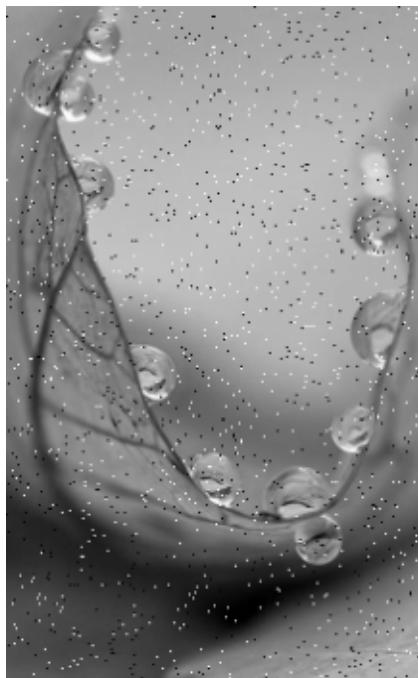


Bilateral Filter - Kernel Size: 9x9  
MSE: 19.43, PSNR: 35.25 dB, FOM: 0.13

Original Image



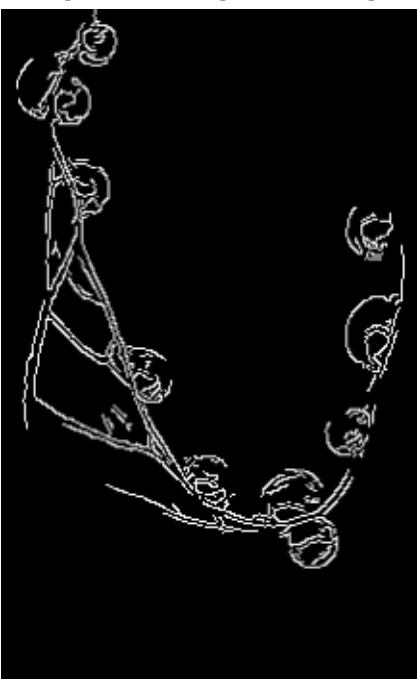
Noisy Image



Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

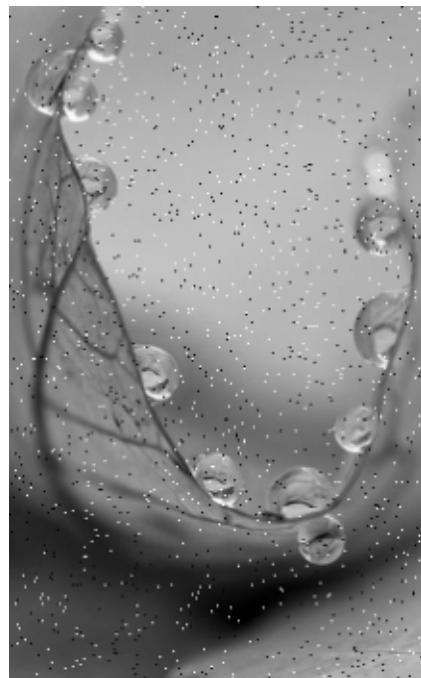


Bilateral Filter - Kernel Size: 15x15  
MSE: 26.90, PSNR: 33.83 dB, FOM: 0.09

Original Image



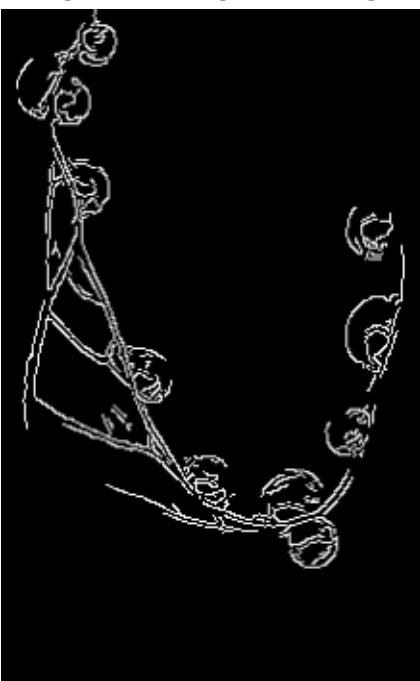
Noisy Image



Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 86.80, PSNR: 28.75 dB, FOM: 0.06

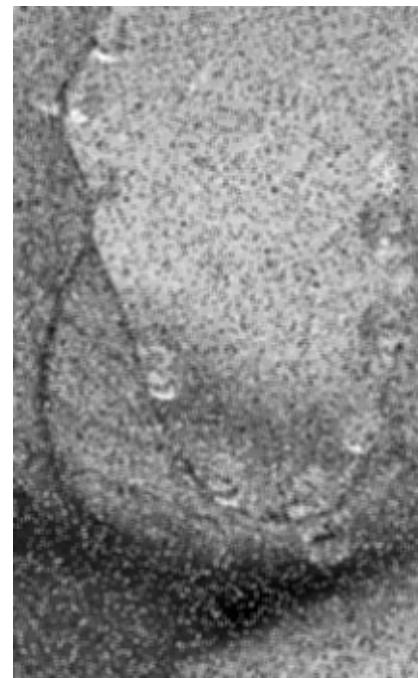
Original Image



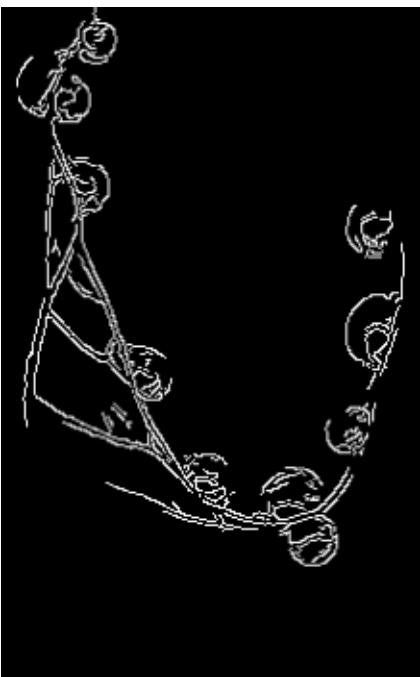
Noisy Image



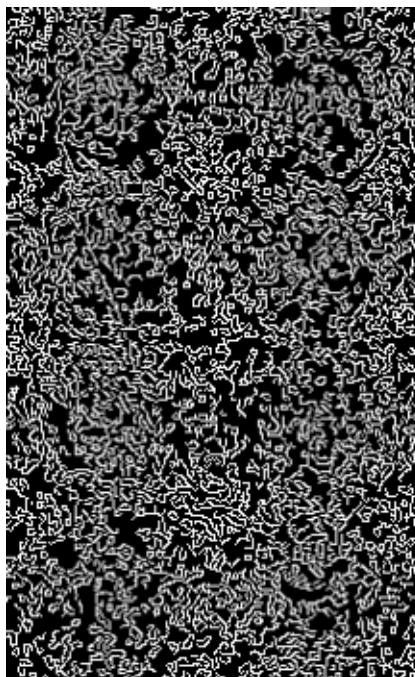
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 77.32, PSNR: 29.25 dB, FOM: 0.00

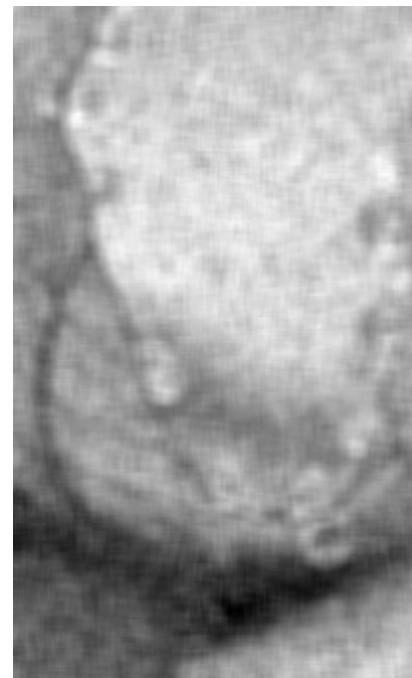
Original Image



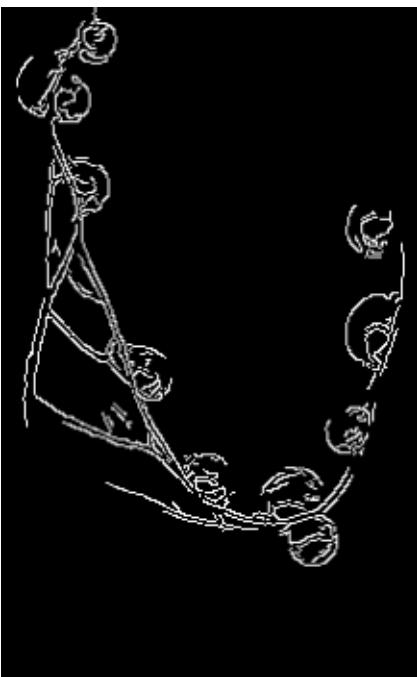
Noisy Image



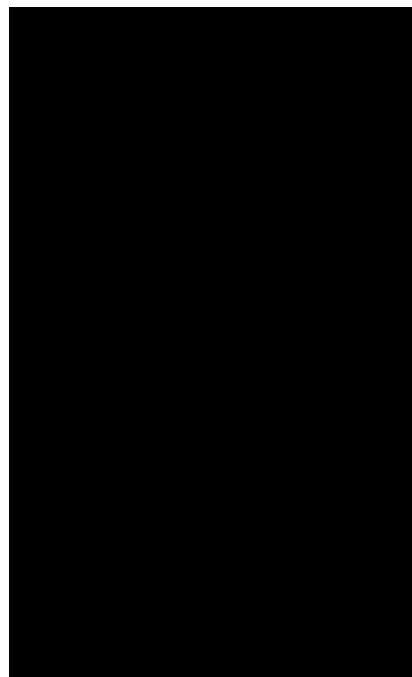
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 83.15, PSNR: 28.93 dB, FOM: 0.00

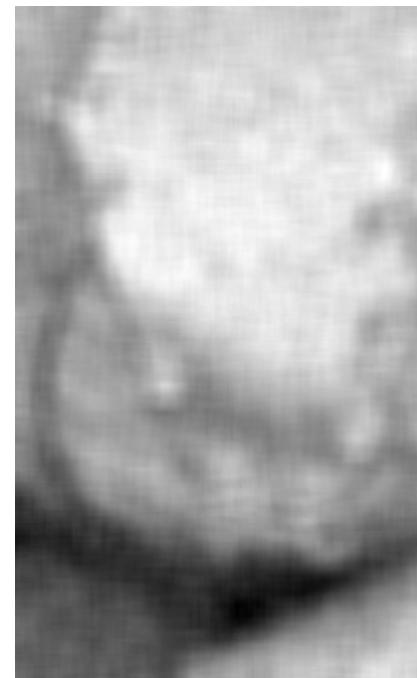
Original Image



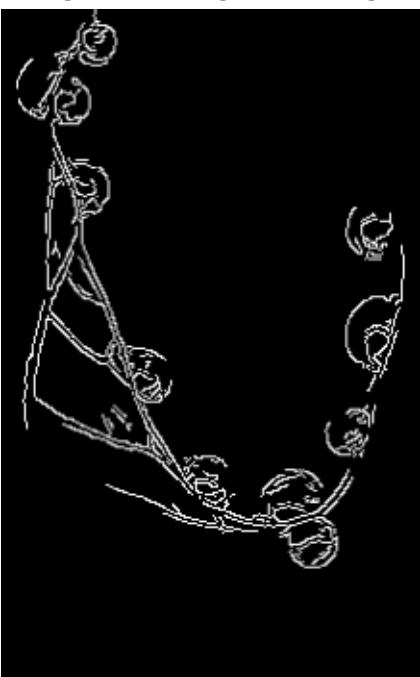
Noisy Image



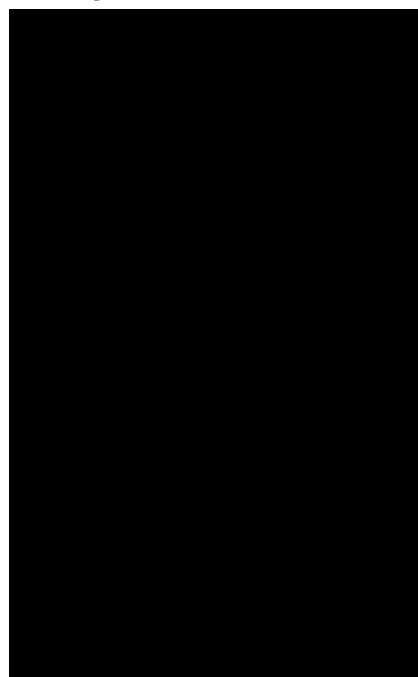
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 79.55, PSNR: 29.12 dB, FOM: 0.05

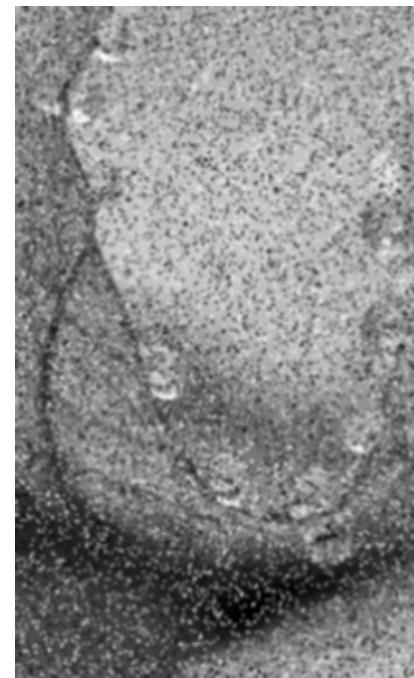
Original Image



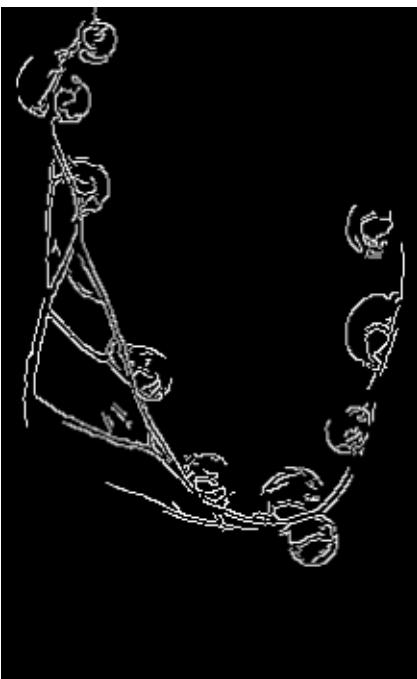
Noisy Image



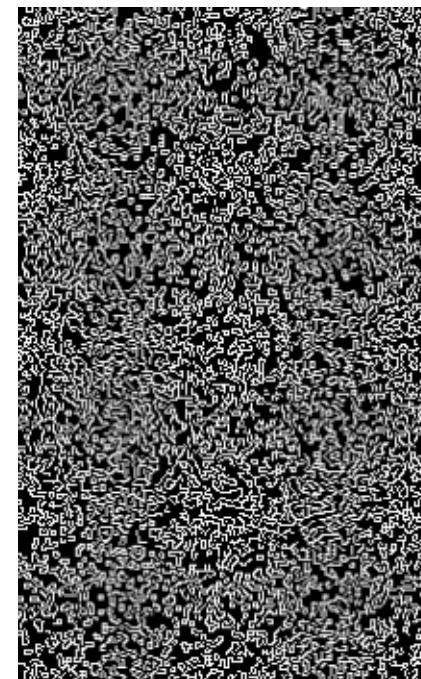
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 9x9  
MSE: 75.62, PSNR: 29.34 dB, FOM: 0.07

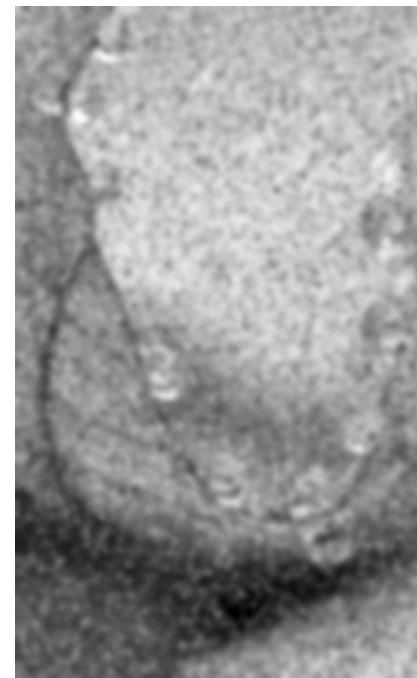
Original Image



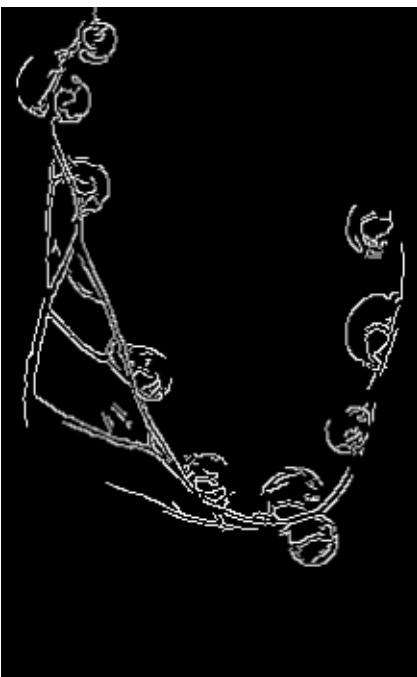
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 76.49, PSNR: 29.29 dB, FOM: 0.00

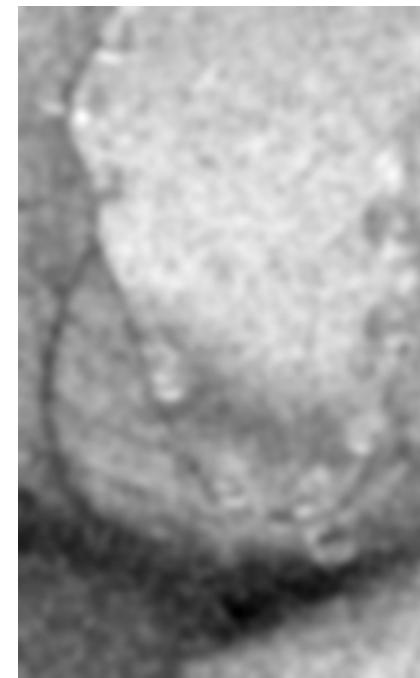
Original Image



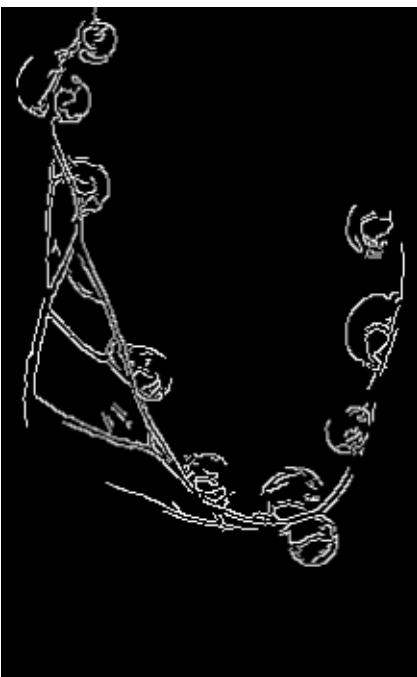
Noisy Image



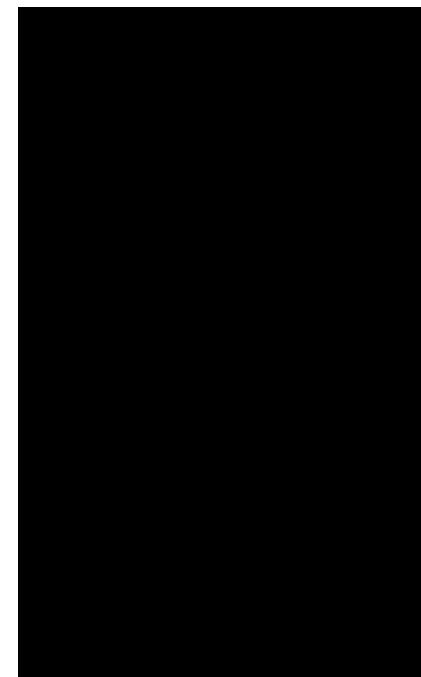
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

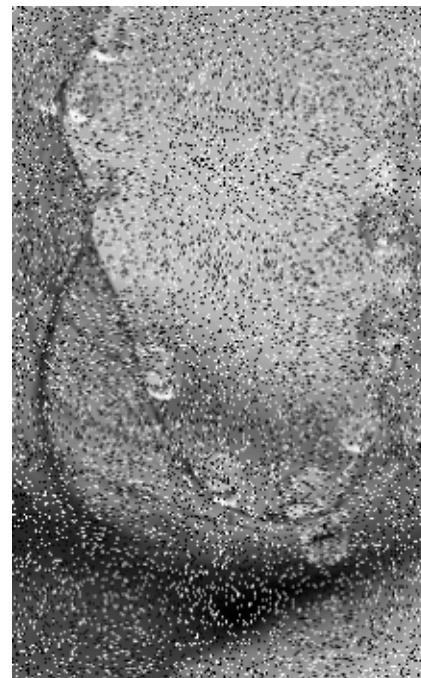


Median Filter - Kernel Size: 3x3  
MSE: 7.99, PSNR: 39.10 dB, FOM: 0.43

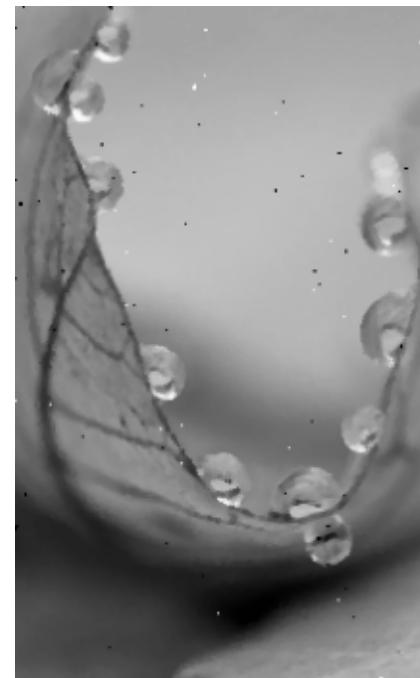
Original Image



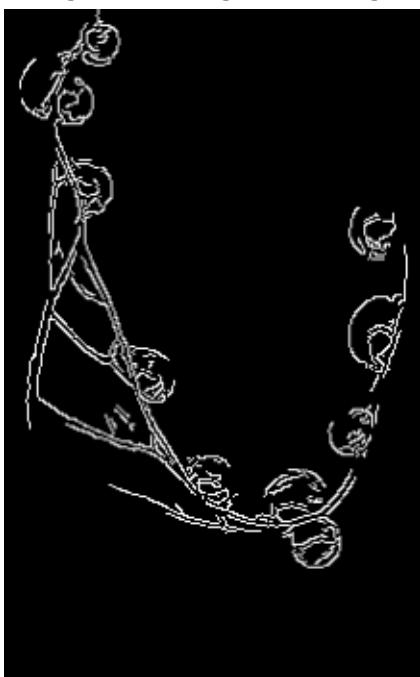
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 17.61, PSNR: 35.67 dB, FOM: 0.10

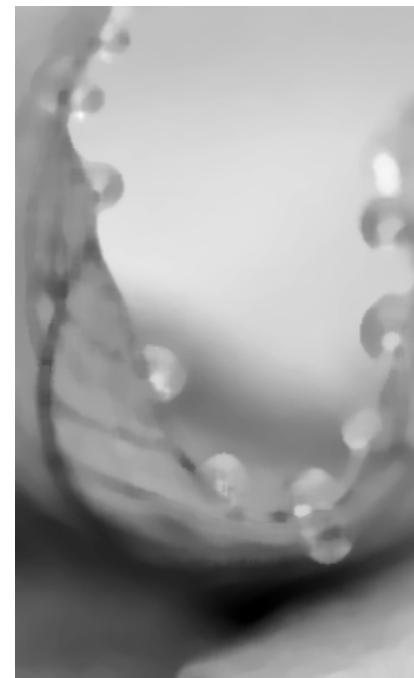
Original Image



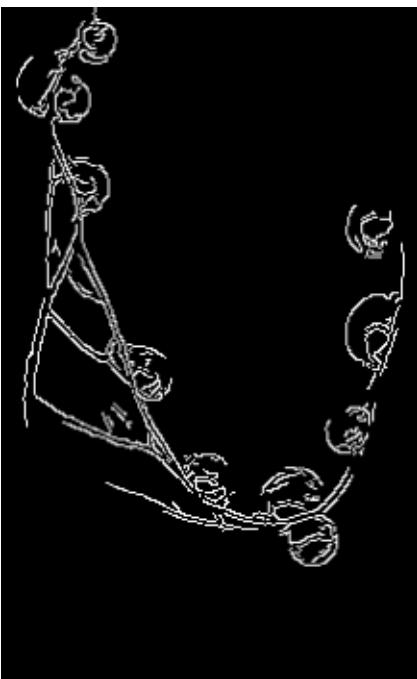
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 24.02, PSNR: 34.32 dB, FOM: 0.03

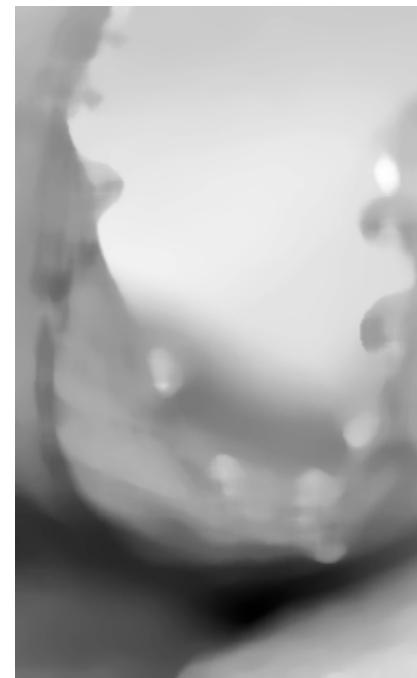
Original Image



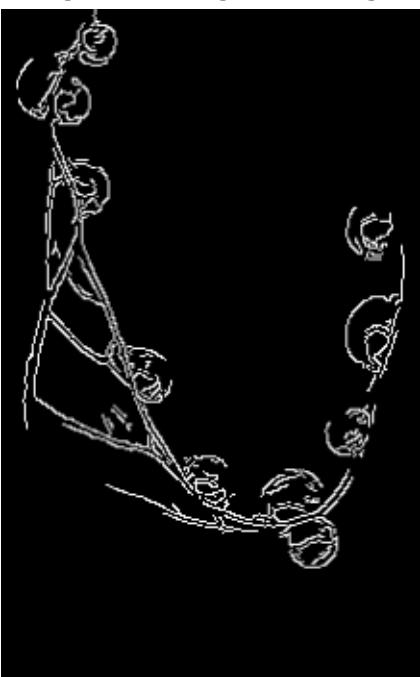
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 102.01, PSNR: 28.04 dB, FOM: 0.05

Original Image



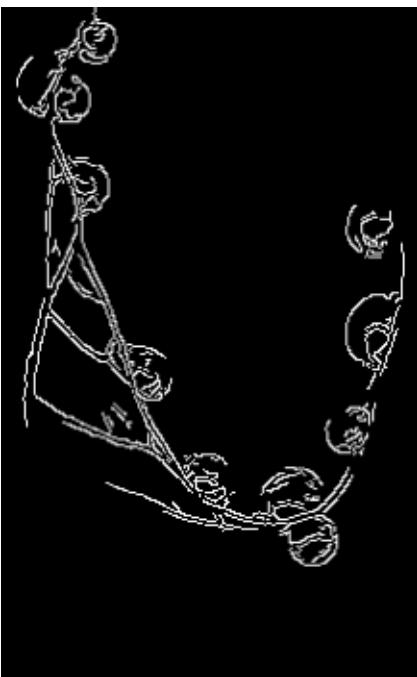
Noisy Image



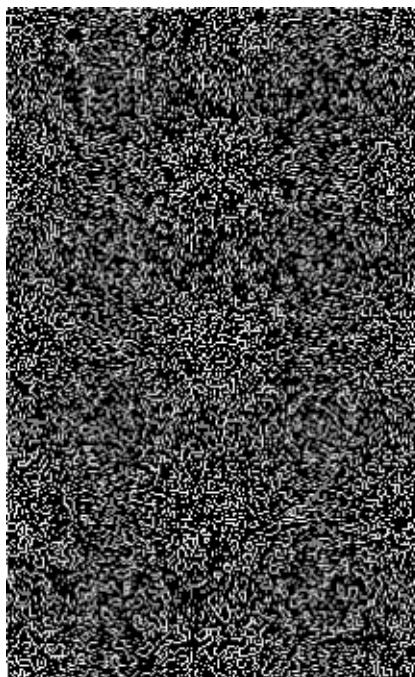
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 101.91, PSNR: 28.05 dB, FOM: 0.07

Original Image



Noisy Image



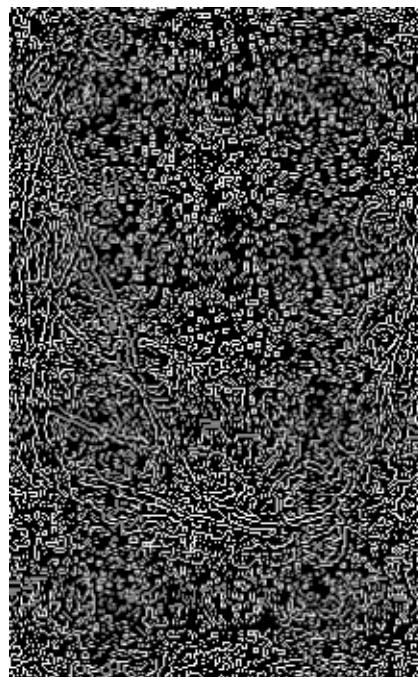
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

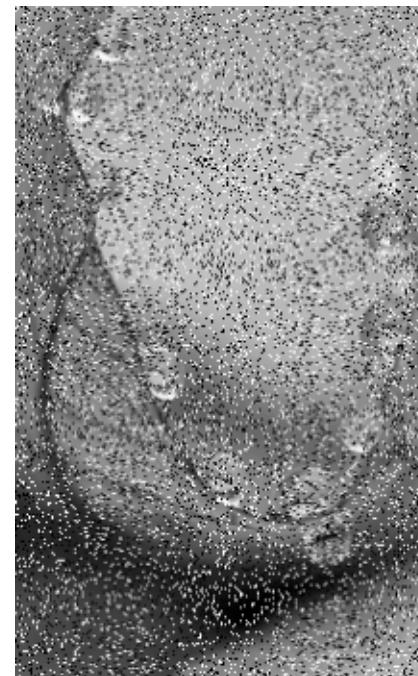


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 101.89, PSNR: 28.05 dB, FOM: 0.07

Original Image



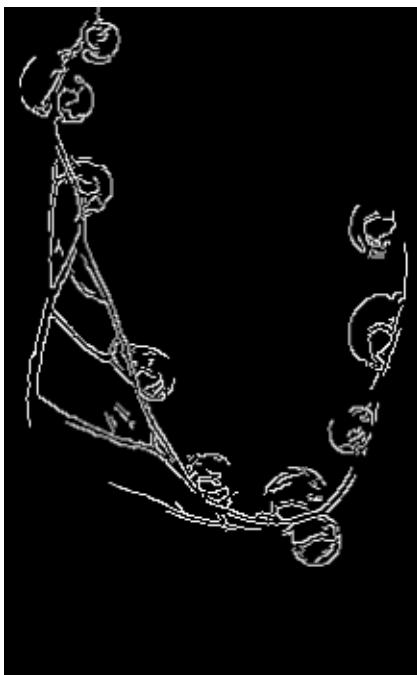
Noisy Image



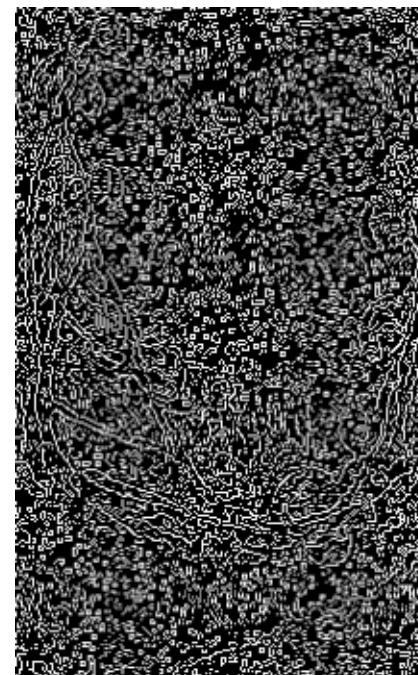
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 3.00, PSNR: 43.35 dB, FOM: 0.61

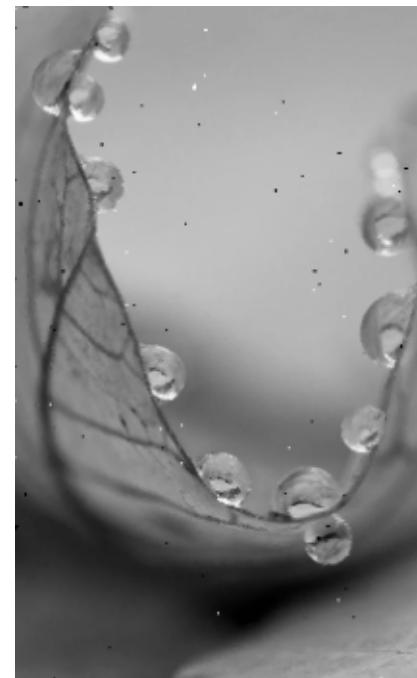
Original Image



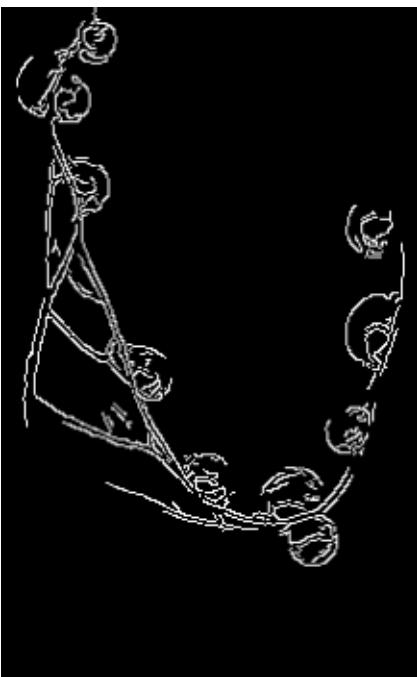
Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

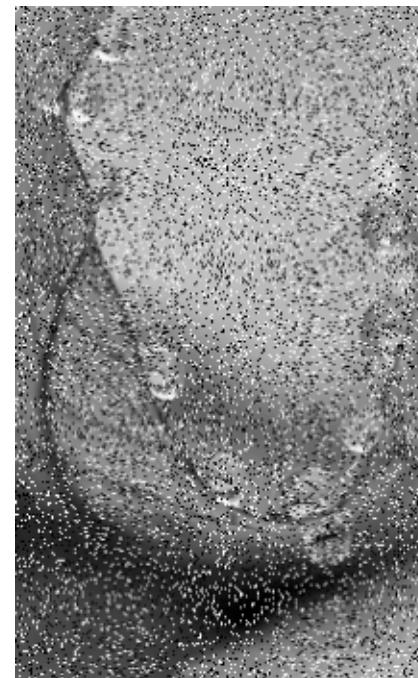


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 3.32, PSNR: 42.92 dB, FOM: 0.59

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

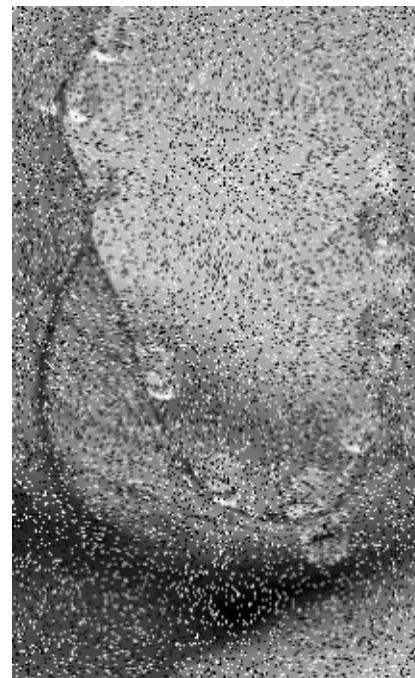


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 4.49, PSNR: 41.61 dB, FOM: 0.54

Original Image



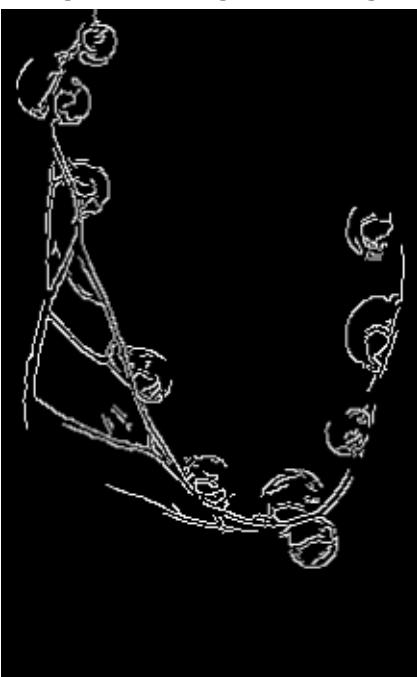
Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 48.48, PSNR: 31.28 dB, FOM: 0.05

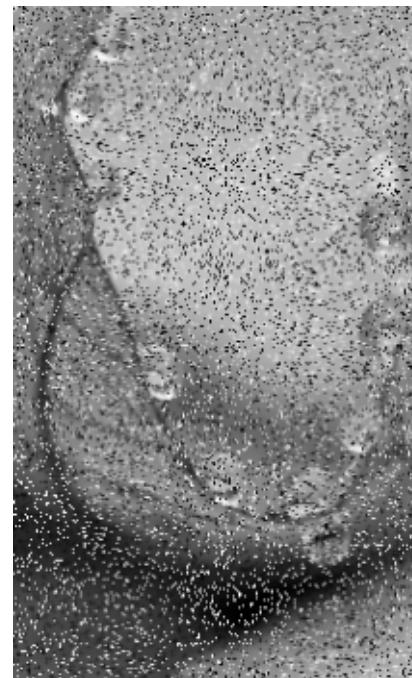
Original Image



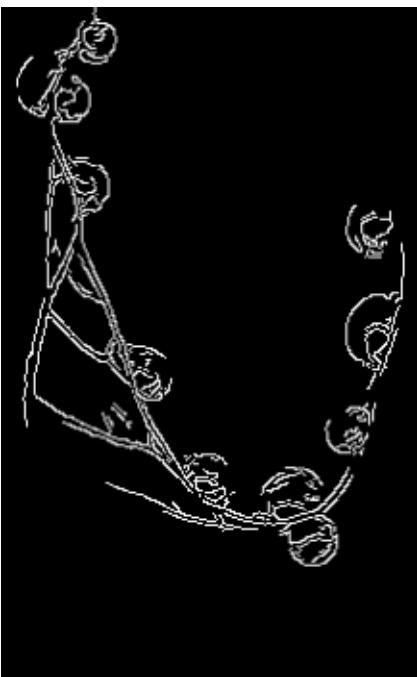
Noisy Image



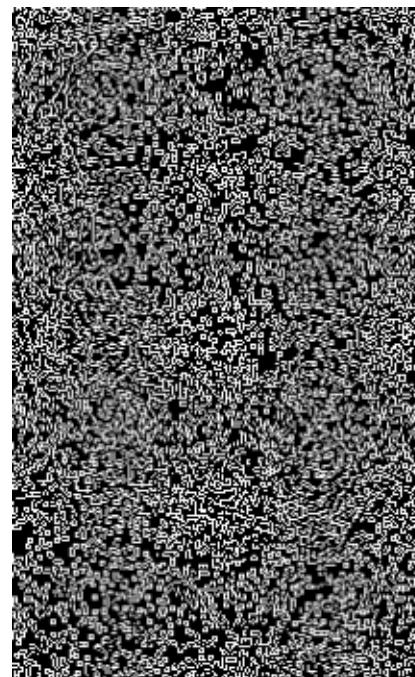
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 39.54, PSNR: 32.16 dB, FOM: 0.05

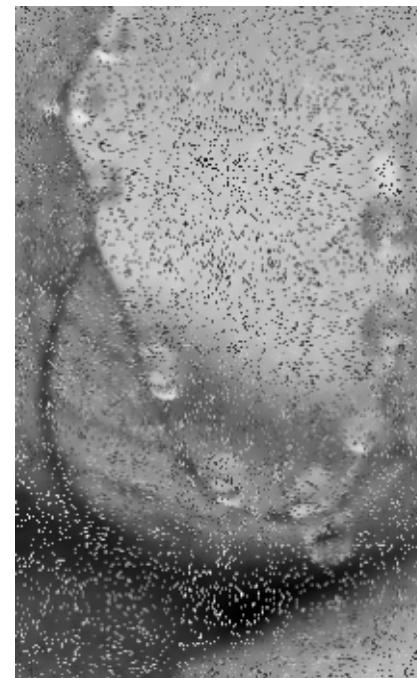
Original Image



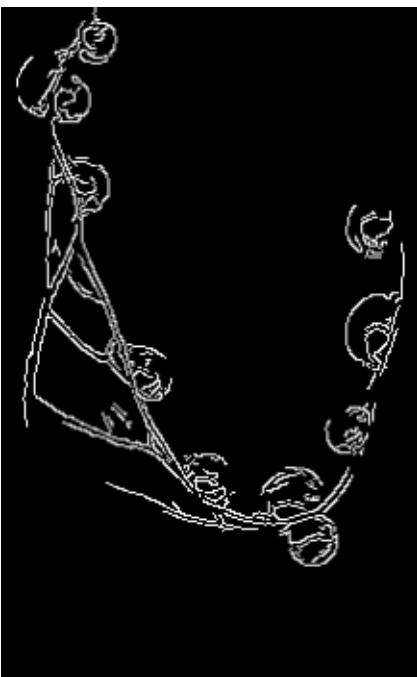
Noisy Image



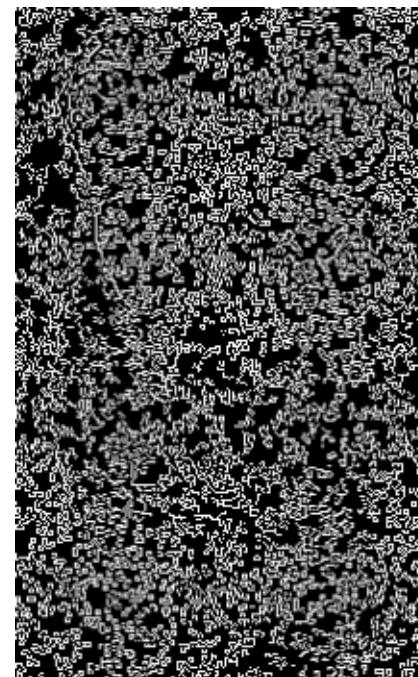
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 42.41, PSNR: 31.86 dB, FOM: 0.04

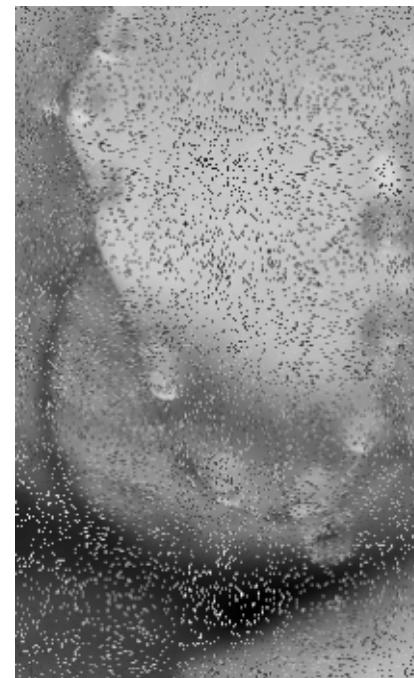
Original Image



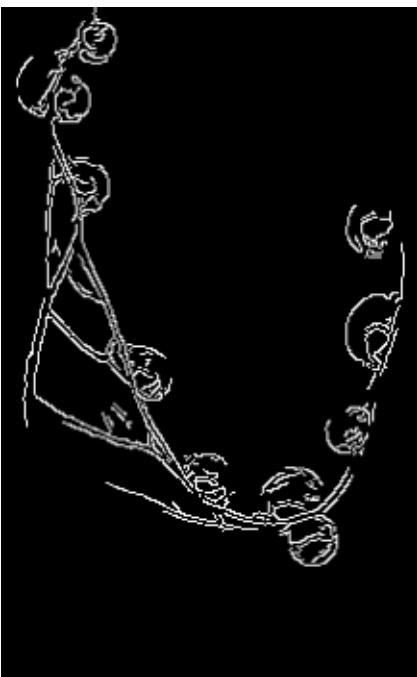
Noisy Image



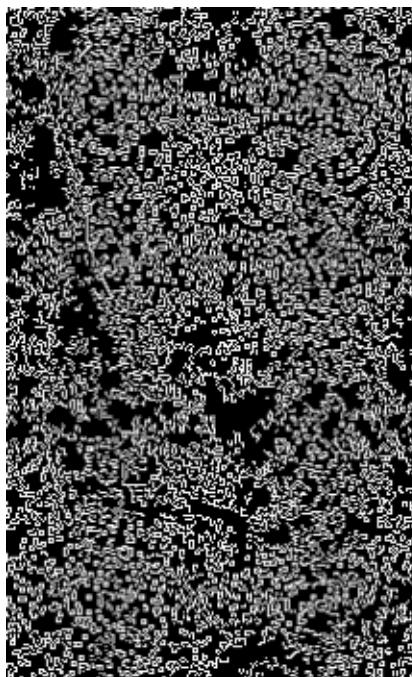
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

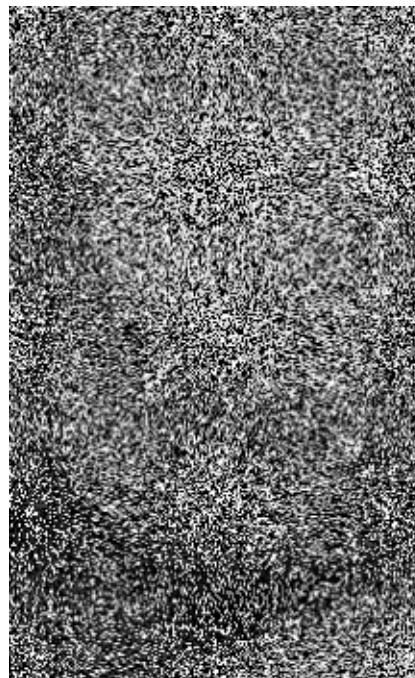


Box Filter - Kernel Size: 3x3  
MSE: 105.62, PSNR: 27.89 dB, FOM: 0.04

Original Image



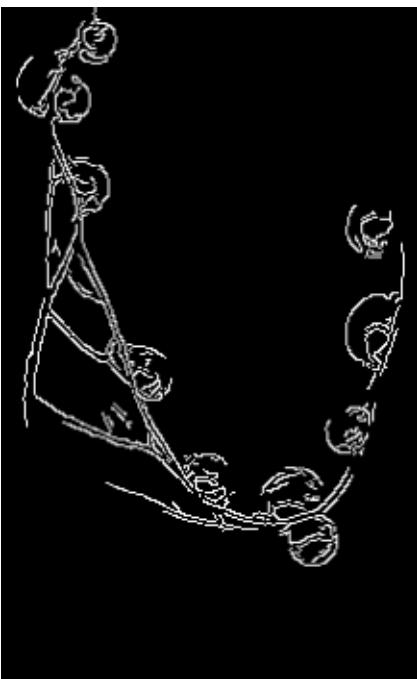
Noisy Image



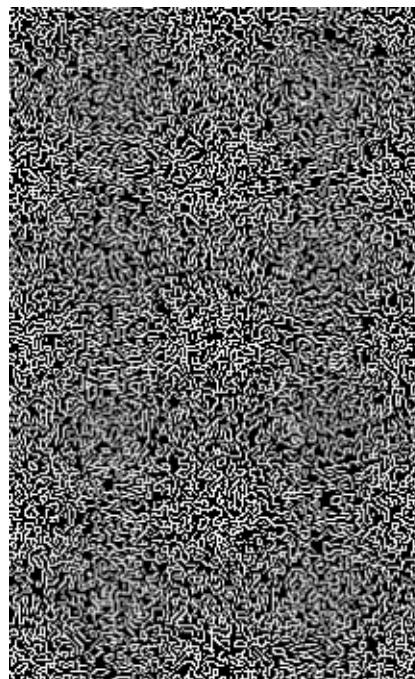
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

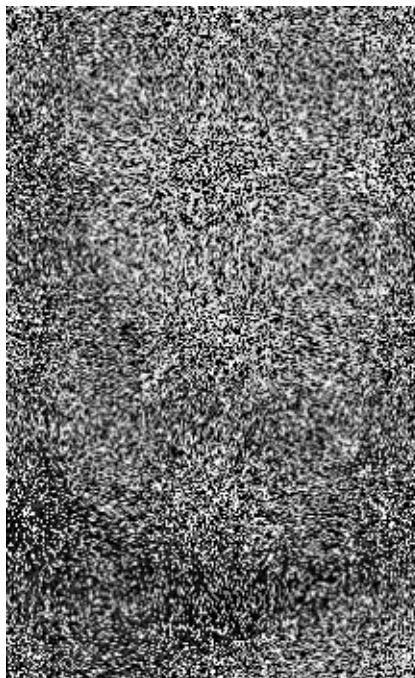


Box Filter - Kernel Size: 9x9  
MSE: 106.48, PSNR: 27.86 dB, FOM: 0.00

Original Image



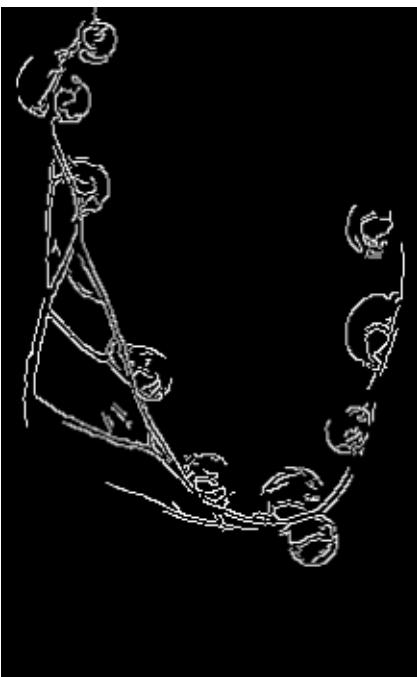
Noisy Image



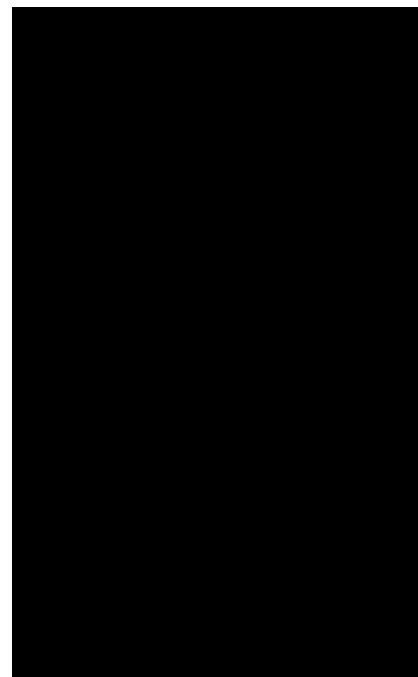
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

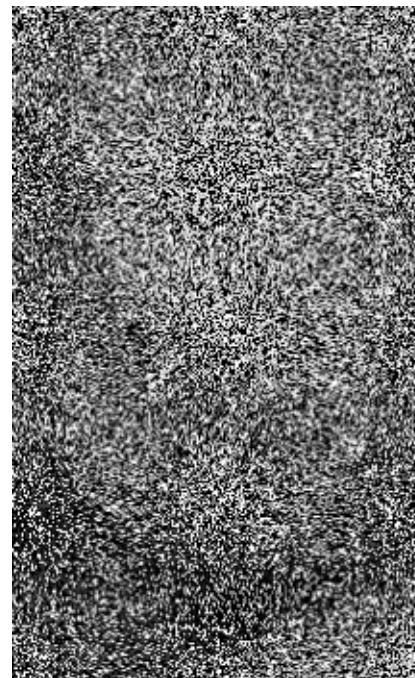


Box Filter - Kernel Size: 15x15  
MSE: 107.91, PSNR: 27.80 dB, FOM: 0.00

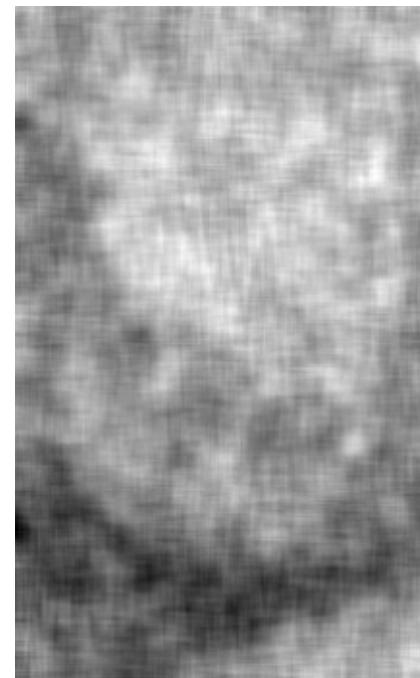
Original Image



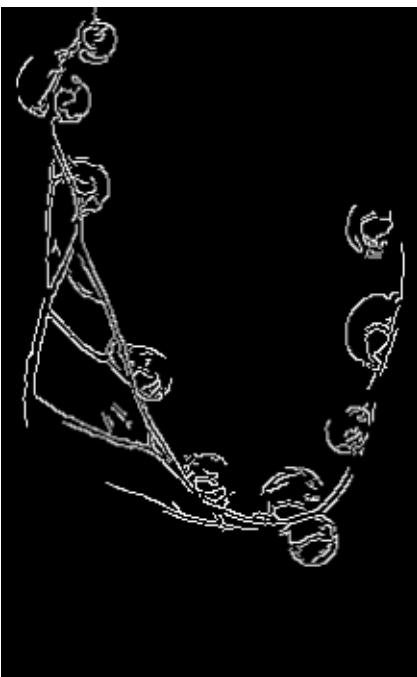
Noisy Image



Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

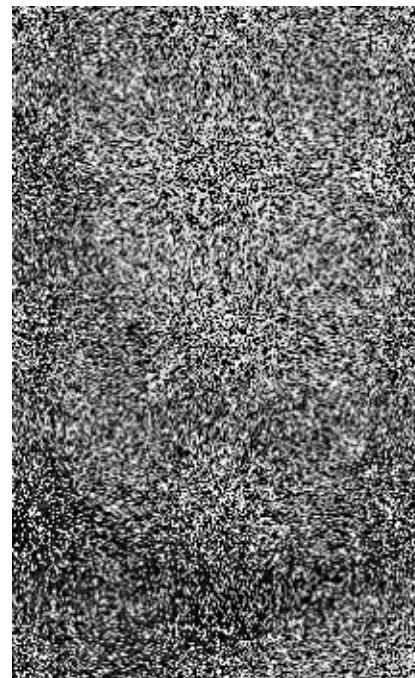


Gaussian Filter - Kernel Size: 3x3  
MSE: 105.12, PSNR: 27.91 dB, FOM: 0.04

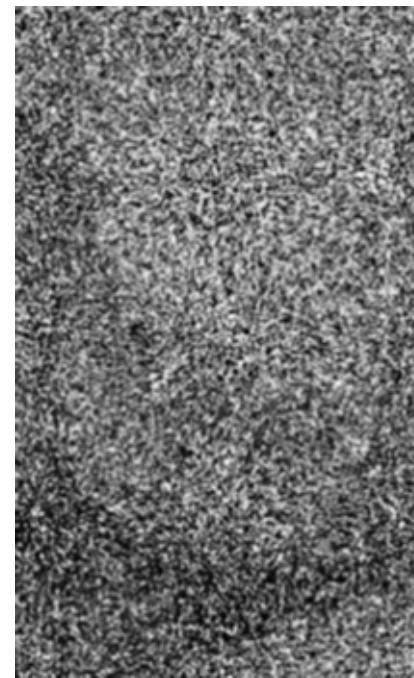
Original Image



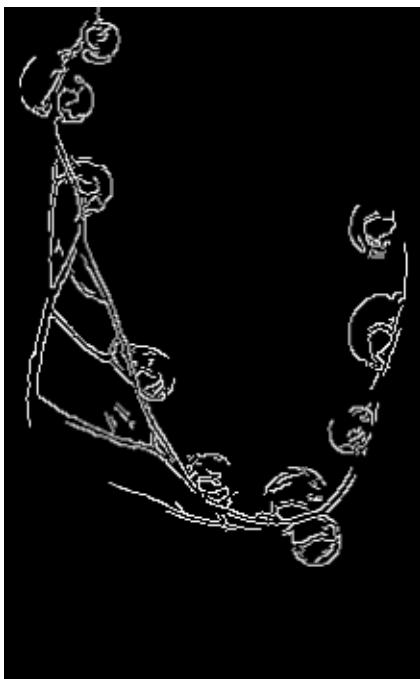
Noisy Image



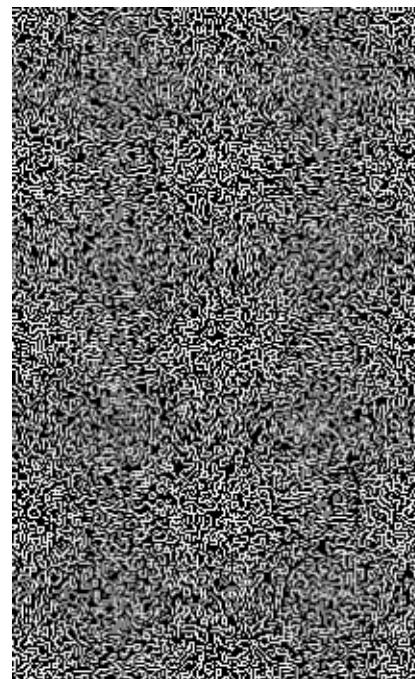
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

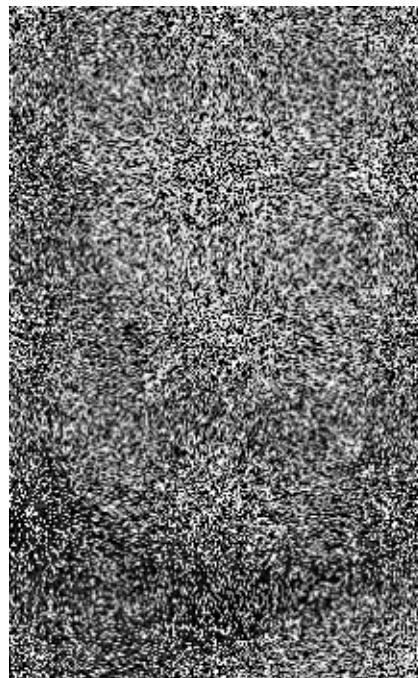


Gaussian Filter - Kernel Size: 9x9  
MSE: 106.62, PSNR: 27.85 dB, FOM: 0.03

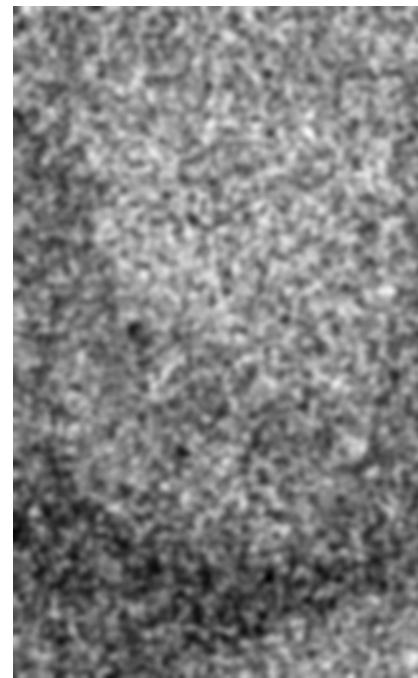
Original Image



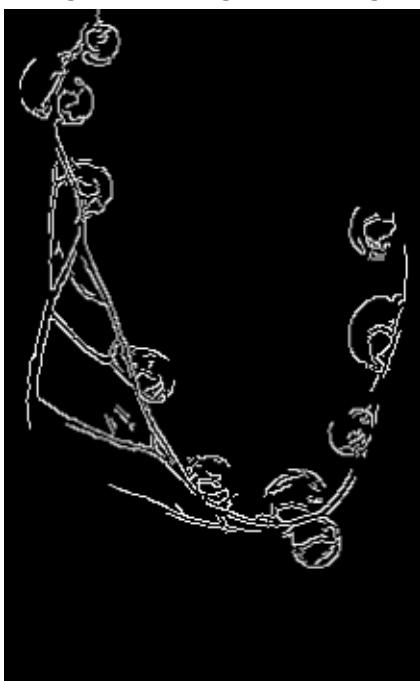
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

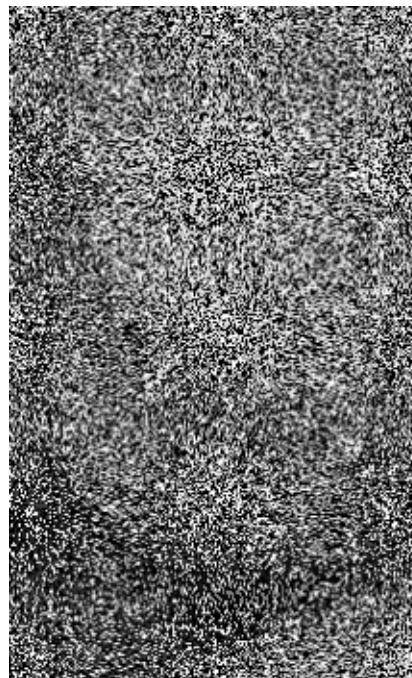


Gaussian Filter - Kernel Size: 15x15  
MSE: 107.18, PSNR: 27.83 dB, FOM: 0.00

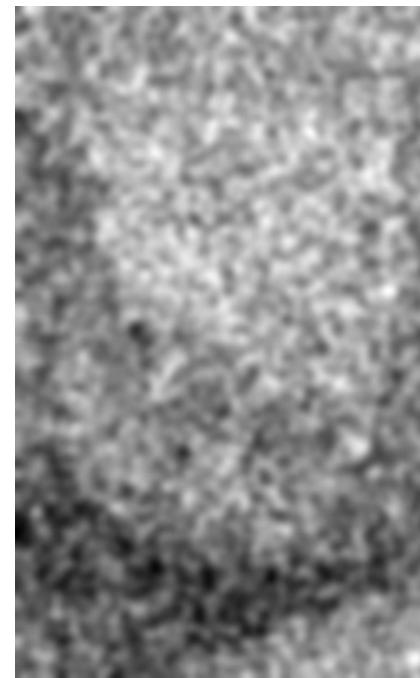
Original Image



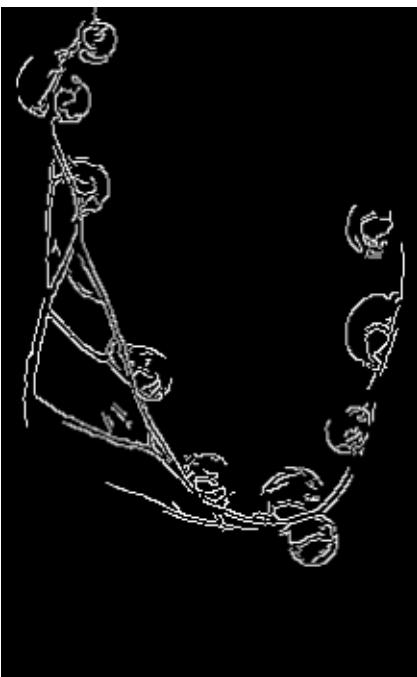
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

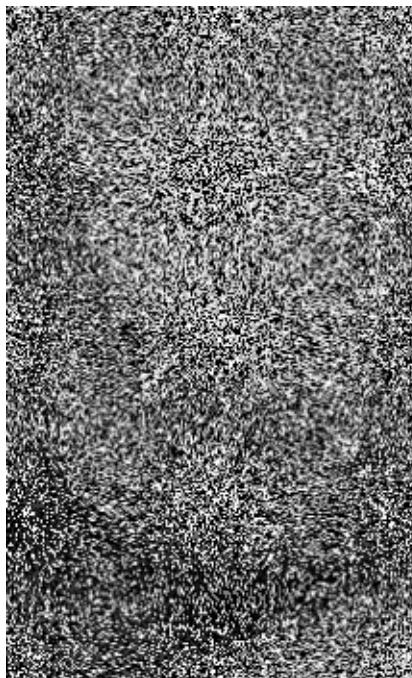


Median Filter - Kernel Size: 3x3  
MSE: 40.76, PSNR: 32.03 dB, FOM: 0.04

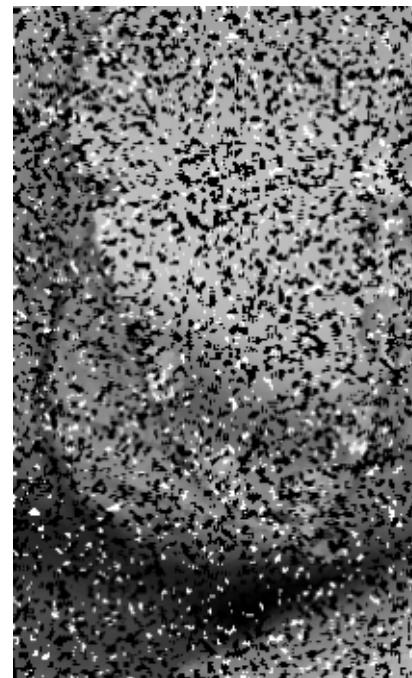
Original Image



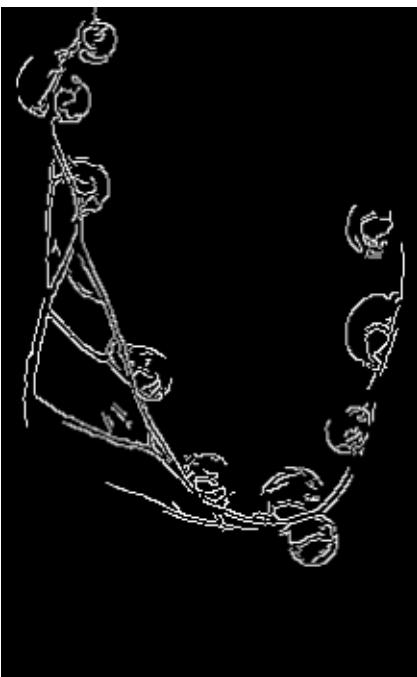
Noisy Image



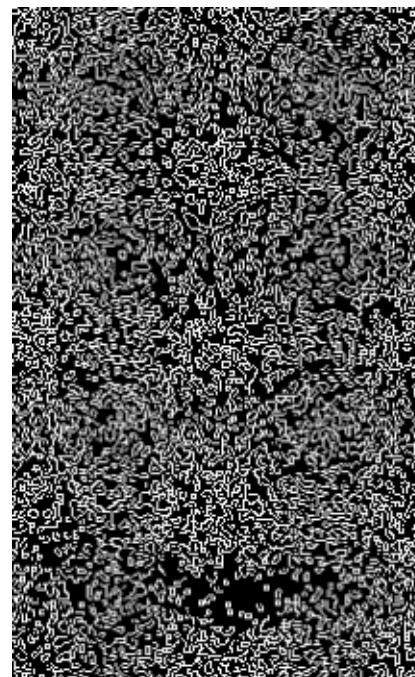
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

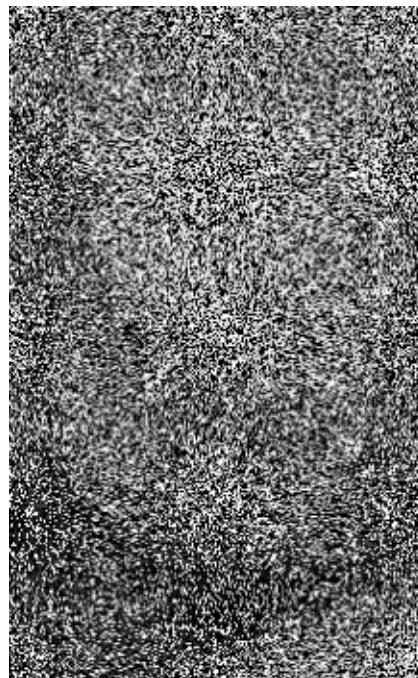


Median Filter - Kernel Size: 9x9  
MSE: 33.23, PSNR: 32.92 dB, FOM: 0.06

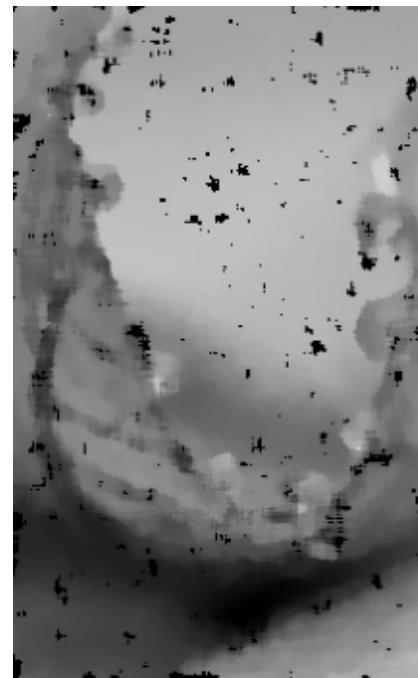
Original Image



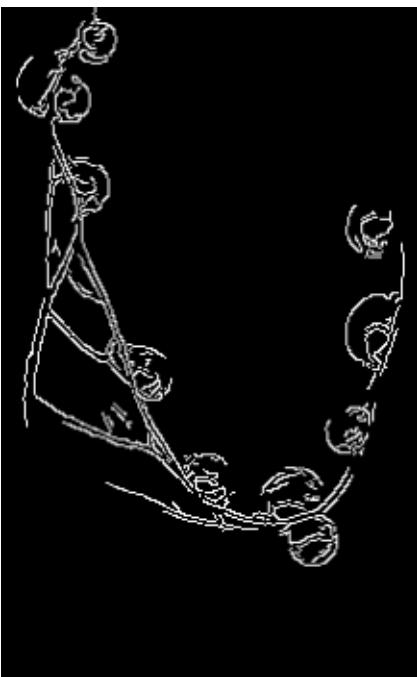
Noisy Image



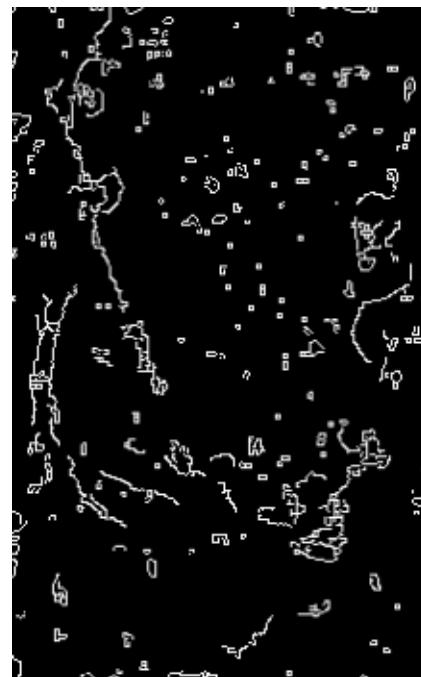
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

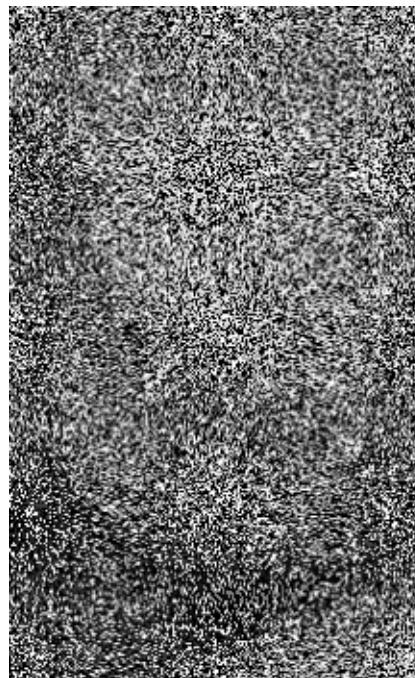


Median Filter - Kernel Size: 15x15  
MSE: 41.43, PSNR: 31.96 dB, FOM: 0.01

Original Image



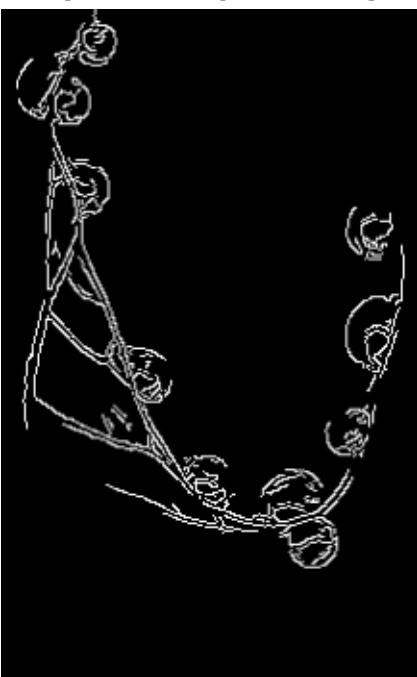
Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

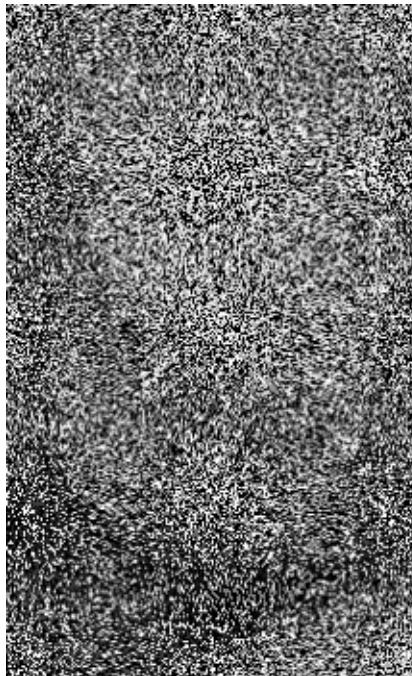


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 102.26, PSNR: 28.03 dB, FOM: 0.04

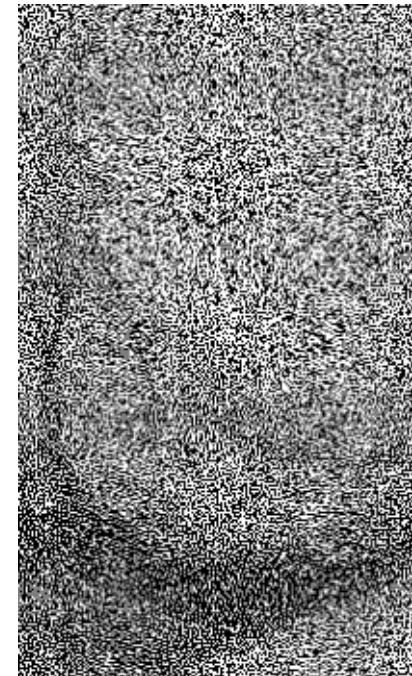
Original Image



Noisy Image



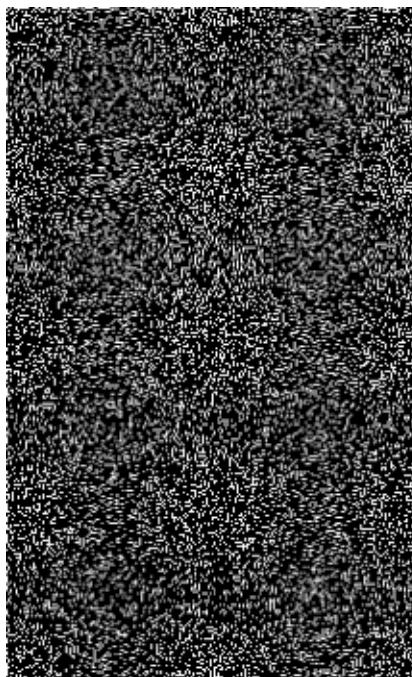
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

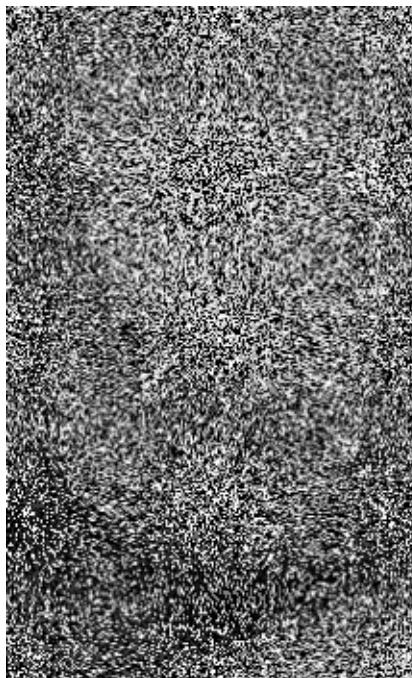


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 102.19, PSNR: 28.04 dB, FOM: 0.04

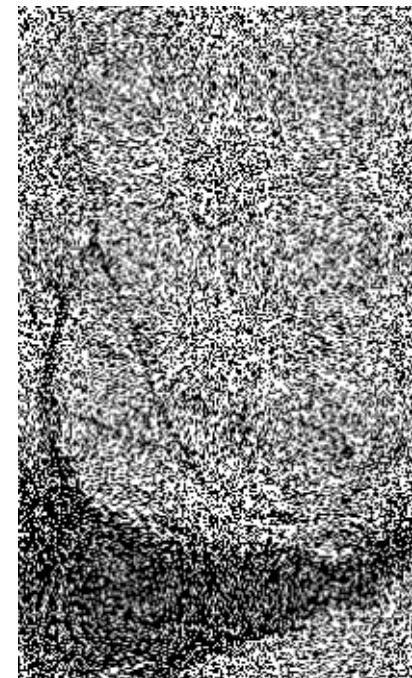
Original Image



Noisy Image



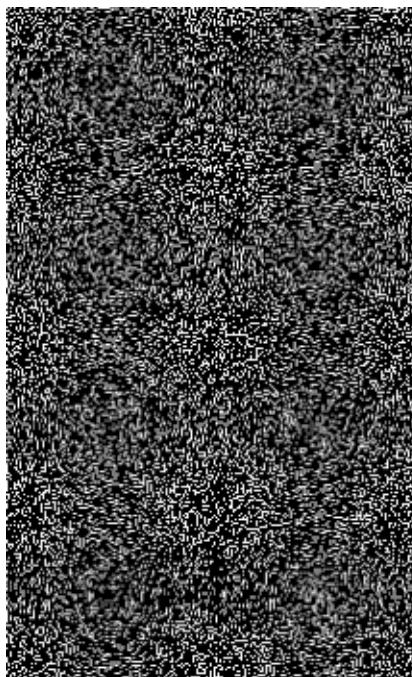
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

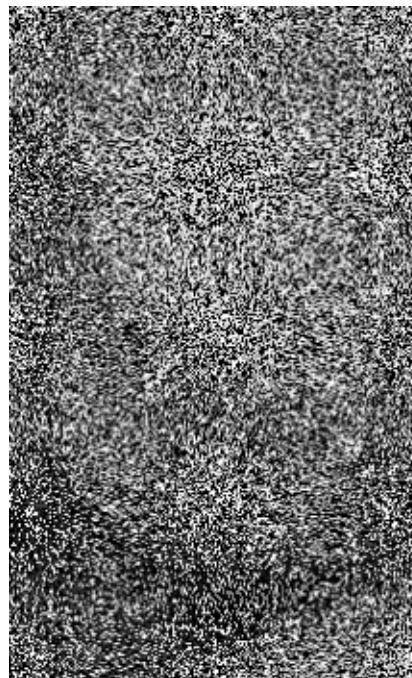


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 102.16, PSNR: 28.04 dB, FOM: 0.04

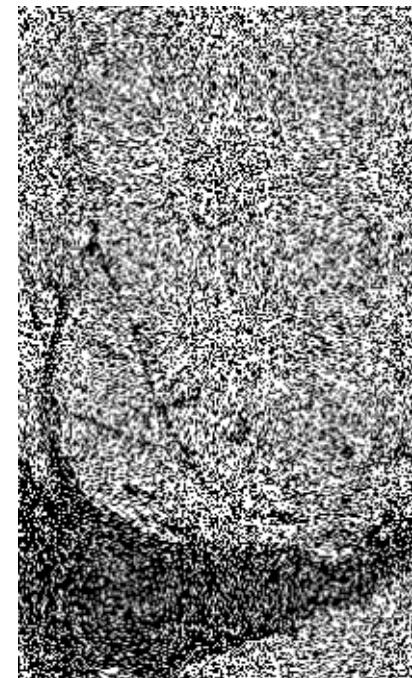
Original Image



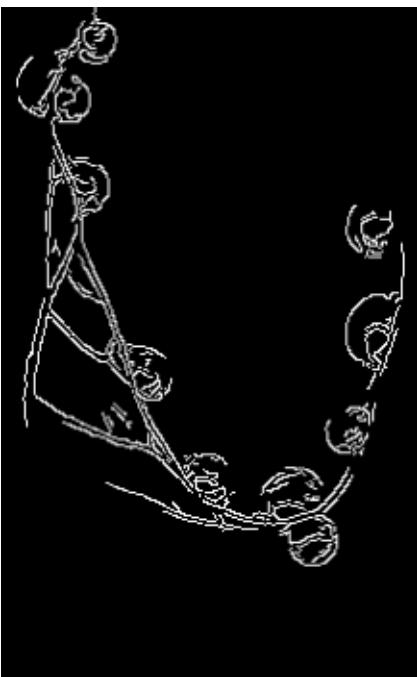
Noisy Image



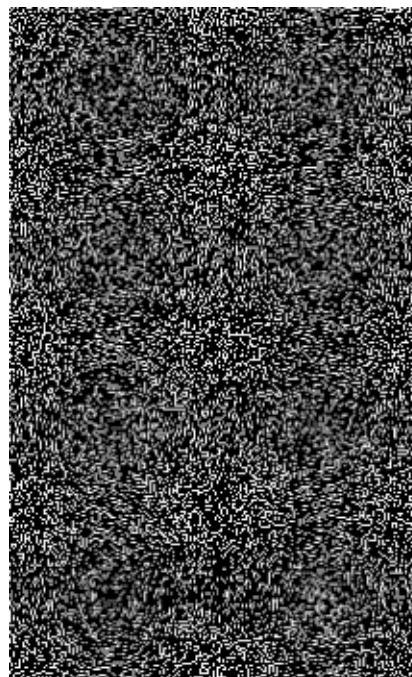
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

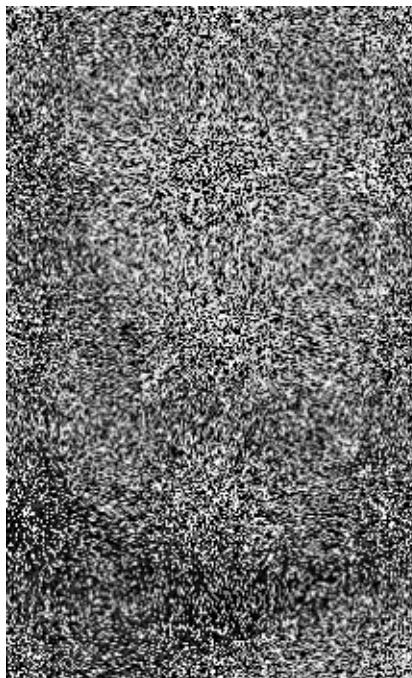


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 37.67, PSNR: 32.37 dB, FOM: 0.05

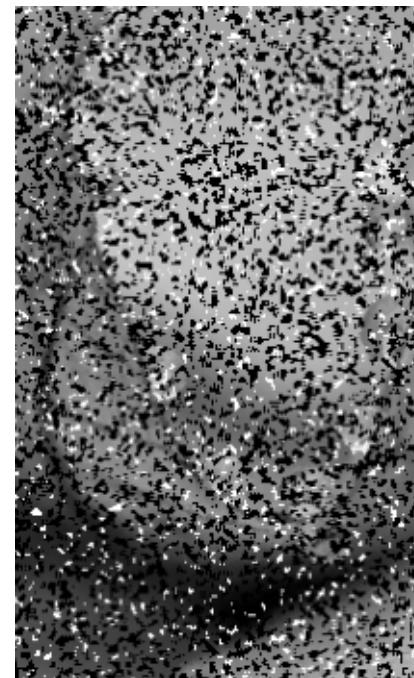
Original Image



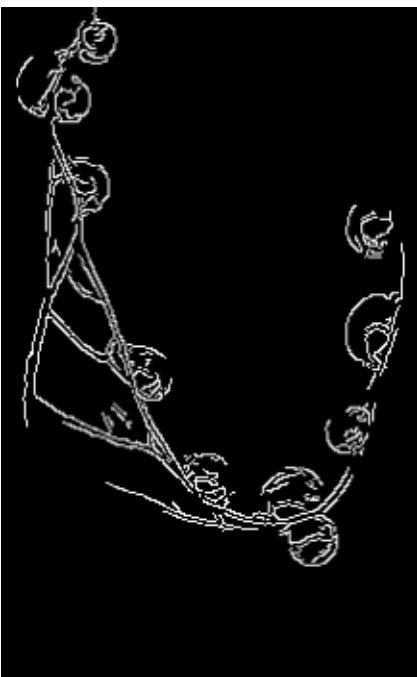
Noisy Image



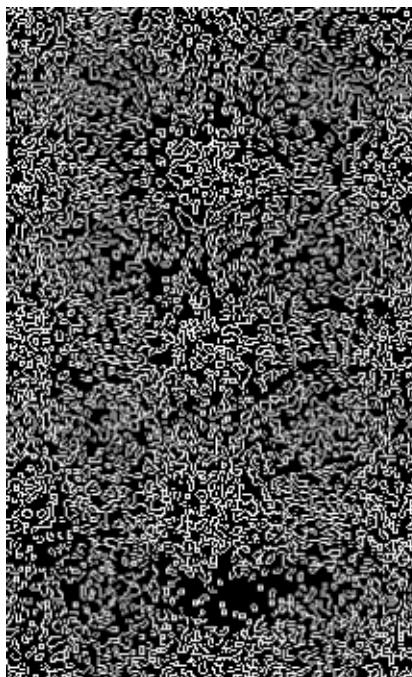
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

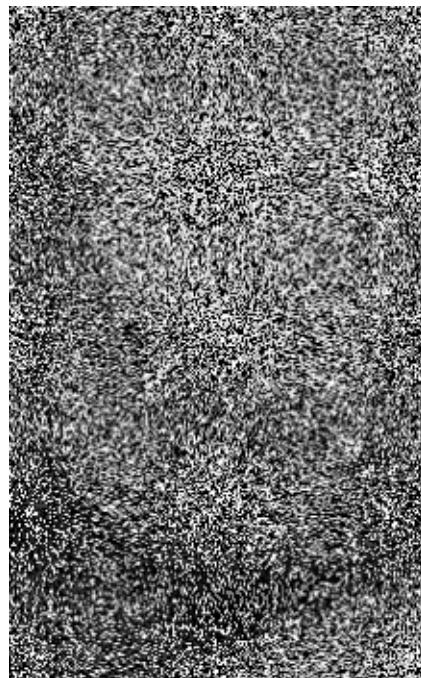


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 22.41, PSNR: 34.63 dB, FOM: 0.14

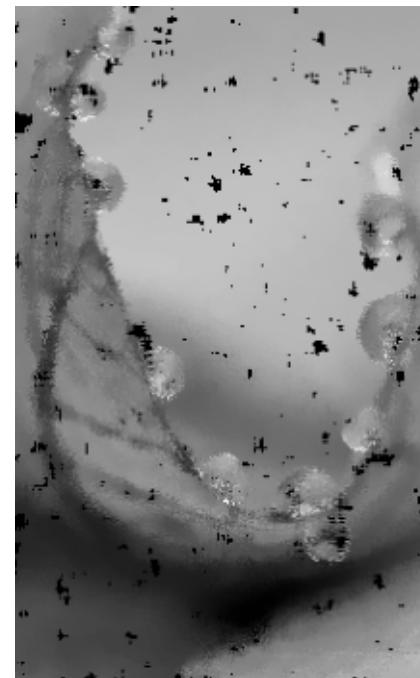
Original Image



Noisy Image



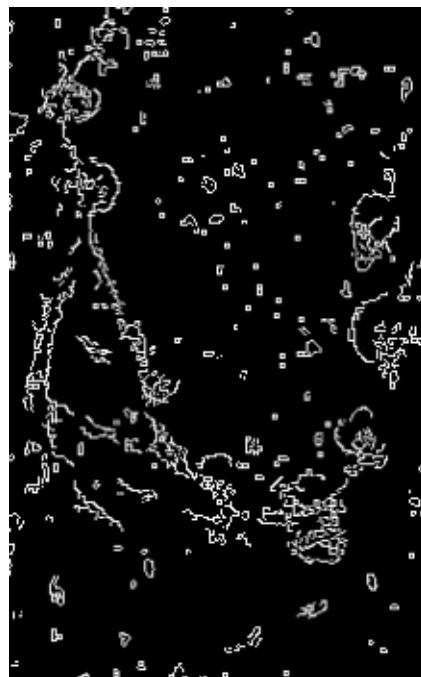
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

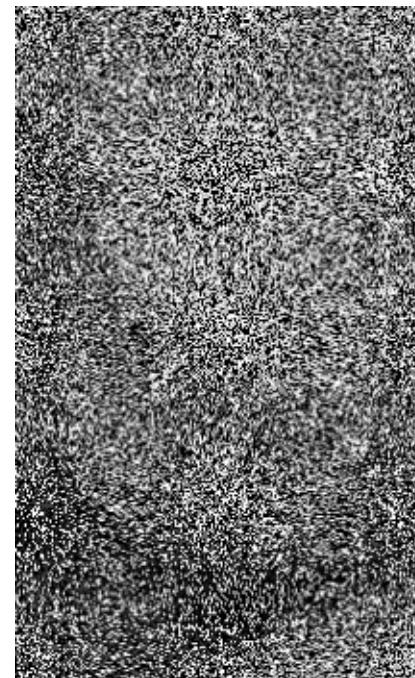


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 26.80, PSNR: 33.85 dB, FOM: 0.16

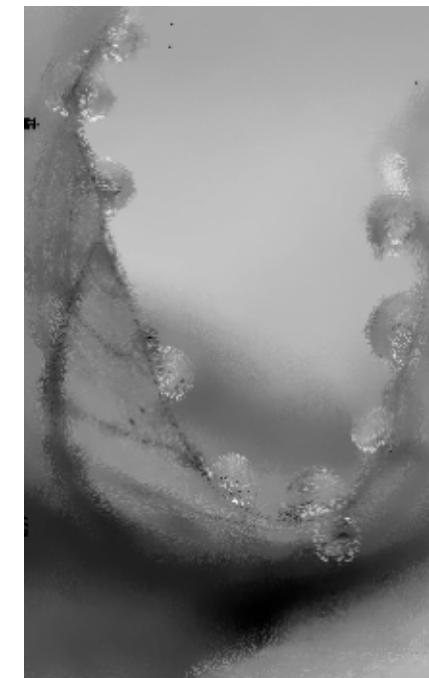
Original Image



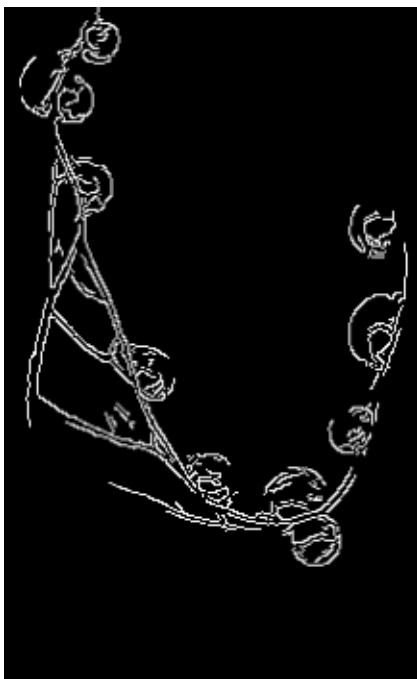
Noisy Image



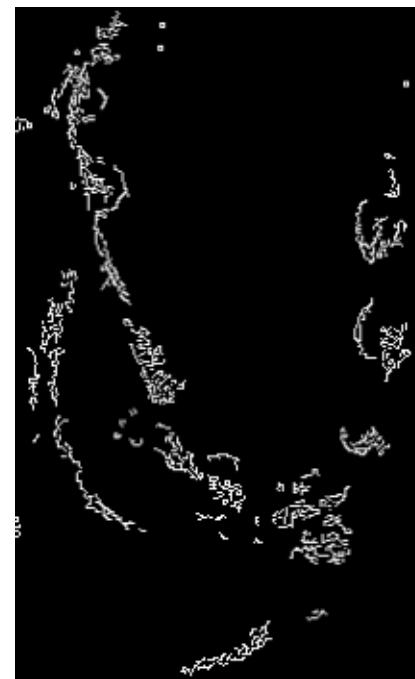
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

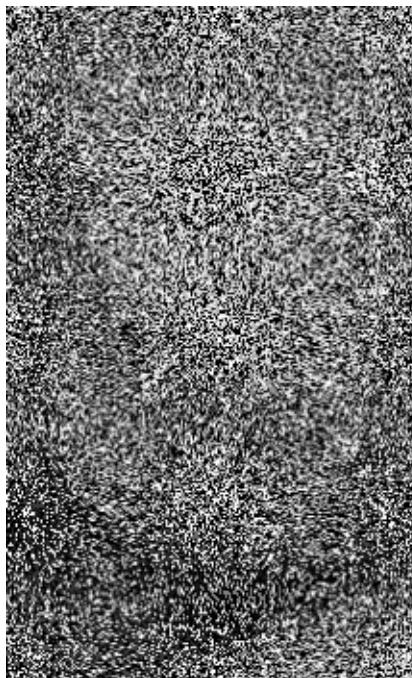


Bilateral Filter - Kernel Size: 3x3  
MSE: 99.34, PSNR: 28.16 dB, FOM: 0.04

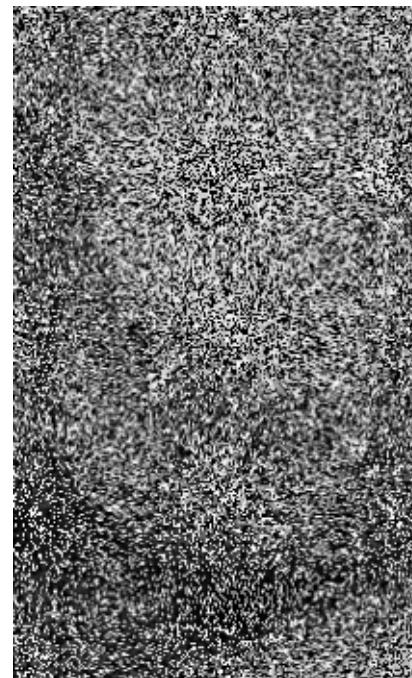
Original Image



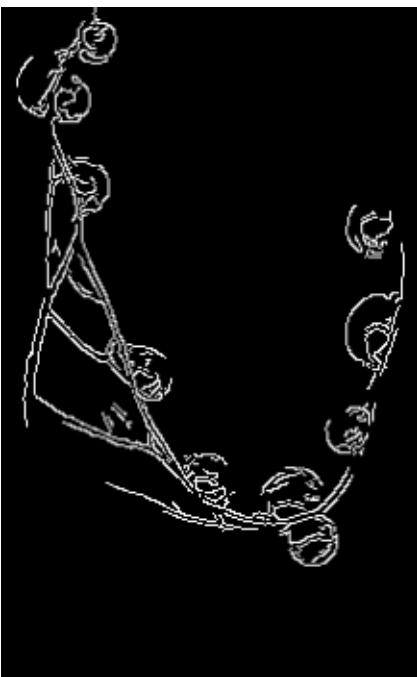
Noisy Image



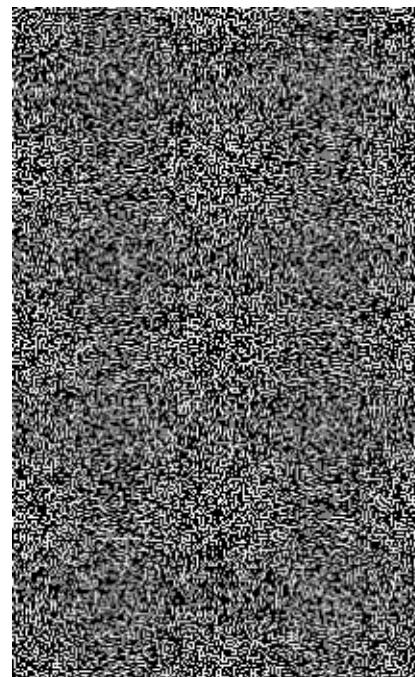
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

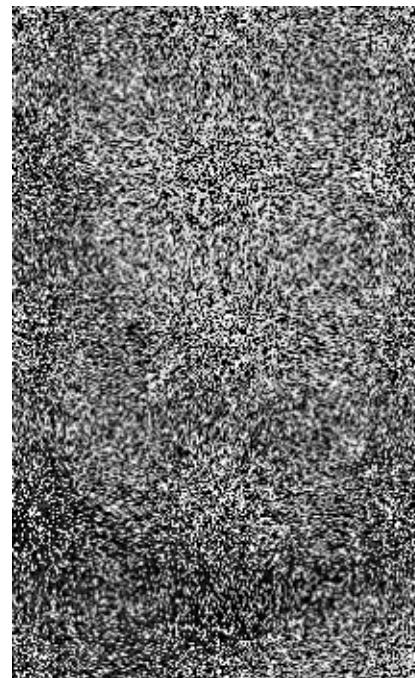


Bilateral Filter - Kernel Size: 9x9  
MSE: 104.56, PSNR: 27.94 dB, FOM: 0.04

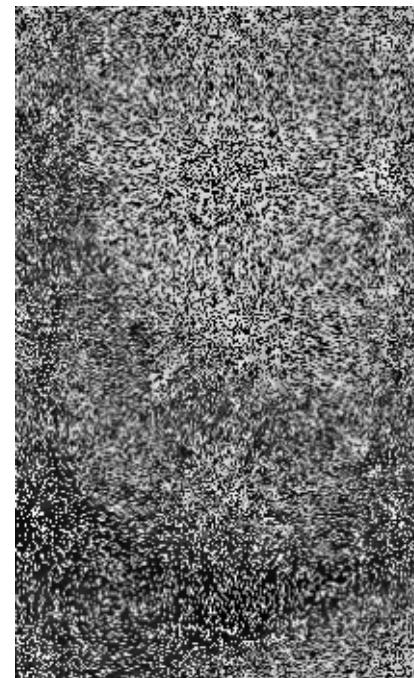
Original Image



Noisy Image



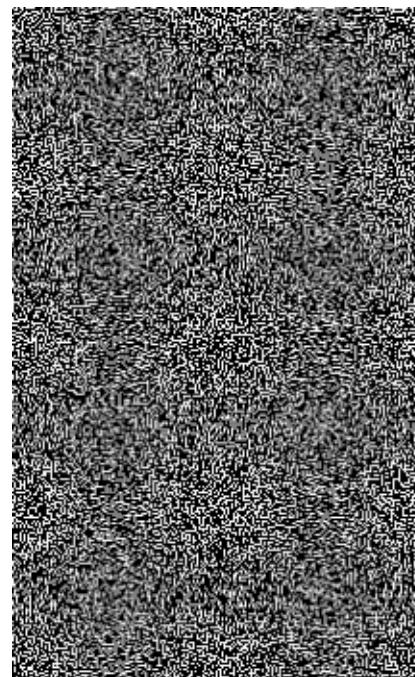
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

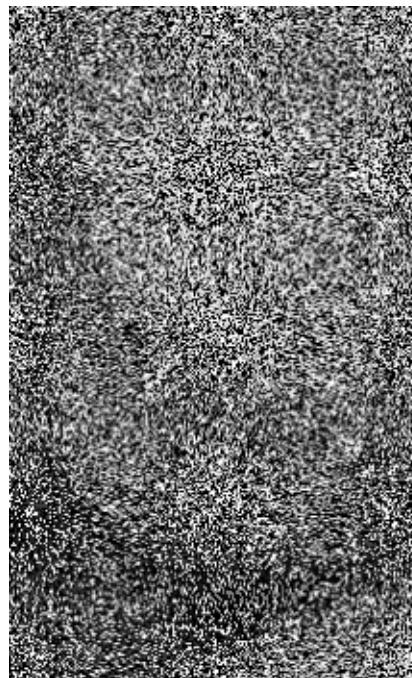


Bilateral Filter - Kernel Size: 15x15  
MSE: 107.03, PSNR: 27.84 dB, FOM: 0.04

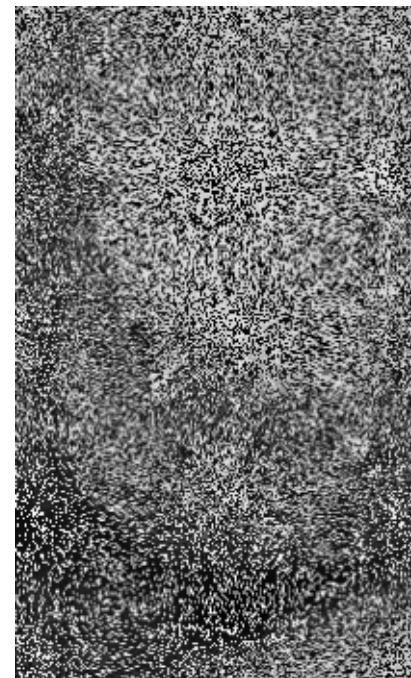
Original Image



Noisy Image



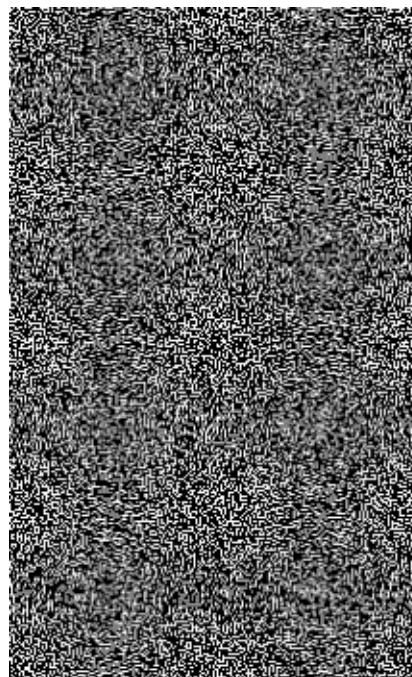
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Box Filter - Kernel Size: 3x3  
MSE: 20.57, PSNR: 35.00 dB, FOM: 0.22

Original Image



Noisy Image



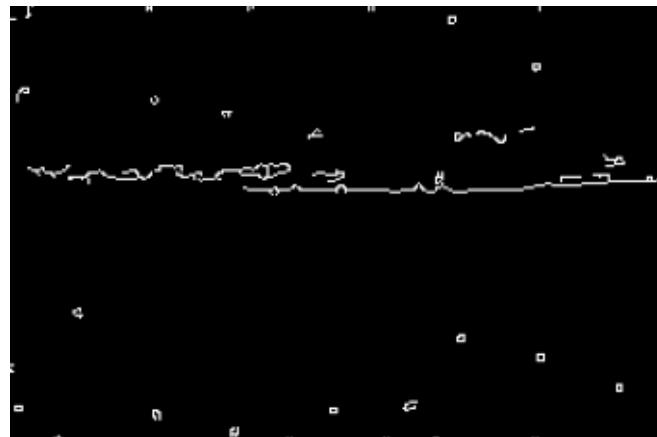
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 9x9  
MSE: 16.39, PSNR: 35.98 dB, FOM: 0.00

Original Image



Noisy Image



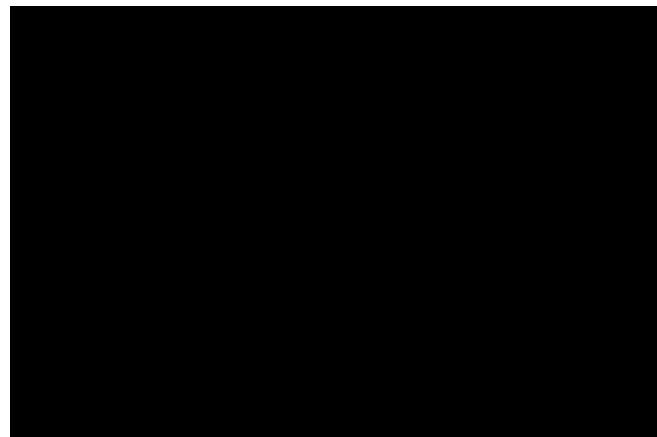
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Box Filter - Kernel Size: 15x15  
MSE: 18.11, PSNR: 35.55 dB, FOM: 0.00

Original Image



Noisy Image



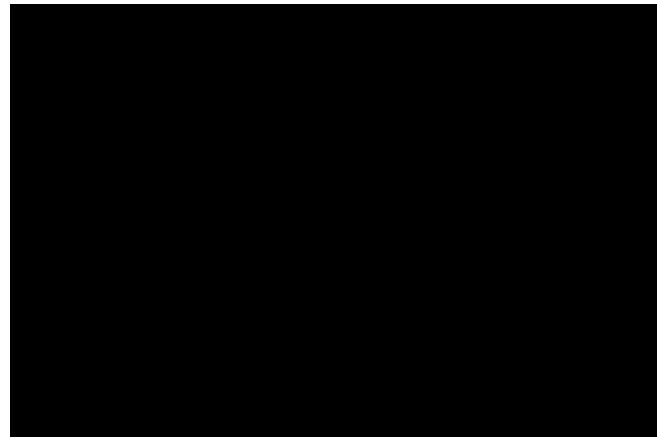
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter



Gaussian Filter - Kernel Size: 3x3  
MSE: 18.06, PSNR: 35.56 dB, FOM: 0.11

Original Image



Noisy Image



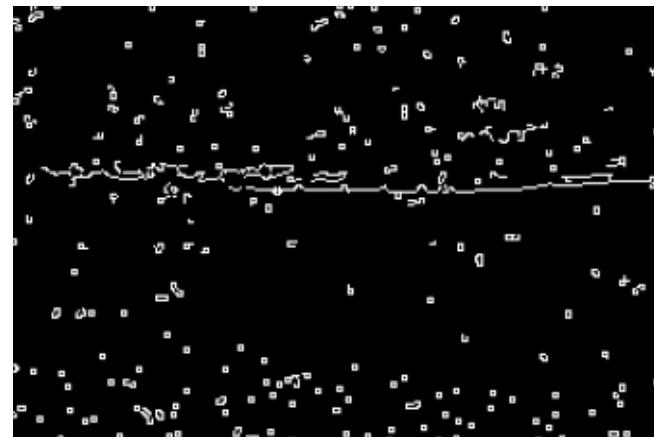
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 9x9  
MSE: 16.77, PSNR: 35.88 dB, FOM: 0.00

Original Image



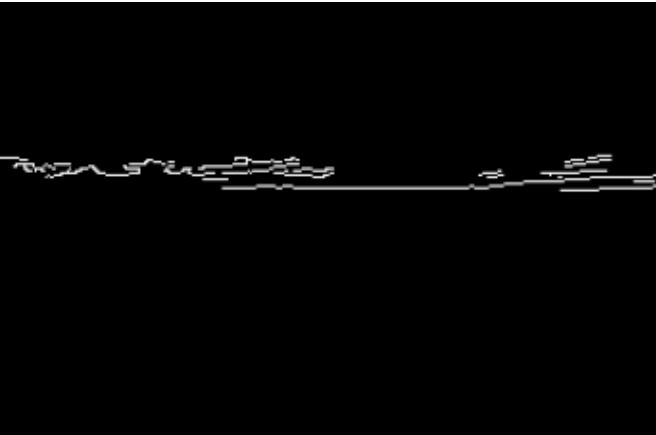
Noisy Image



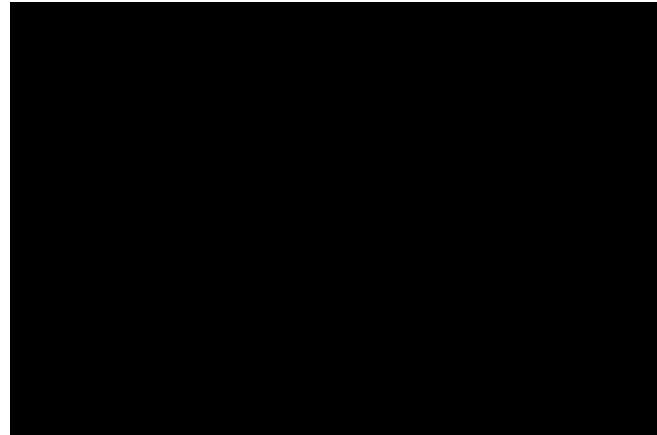
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Gaussian Filter - Kernel Size: 15x15  
MSE: 14.85, PSNR: 36.41 dB, FOM: 0.00

Original Image



Noisy Image



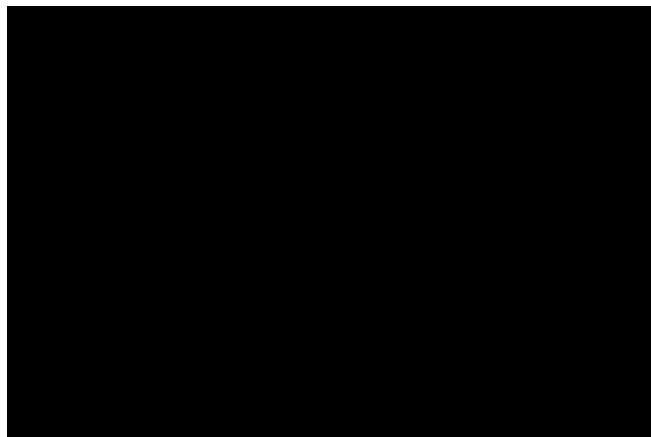
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter



Median Filter - Kernel Size: 3x3  
MSE: 2.28, PSNR: 44.55 dB, FOM: 0.38

Original Image



Noisy Image



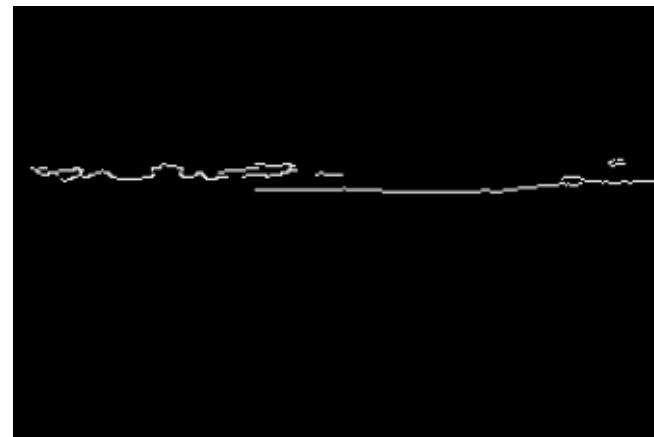
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 9x9  
MSE: 7.34, PSNR: 39.47 dB, FOM: 0.15

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Median Filter - Kernel Size: 15x15  
MSE: 9.91, PSNR: 38.17 dB, FOM: 0.05

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter



Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 105.65, PSNR: 27.89 dB, FOM: 0.03

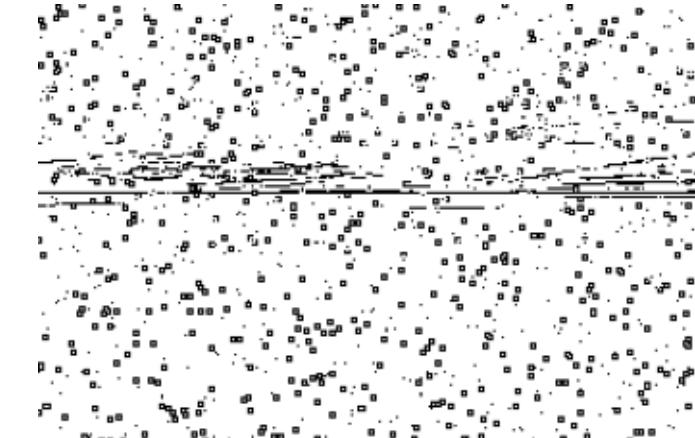
Original Image



Noisy Image



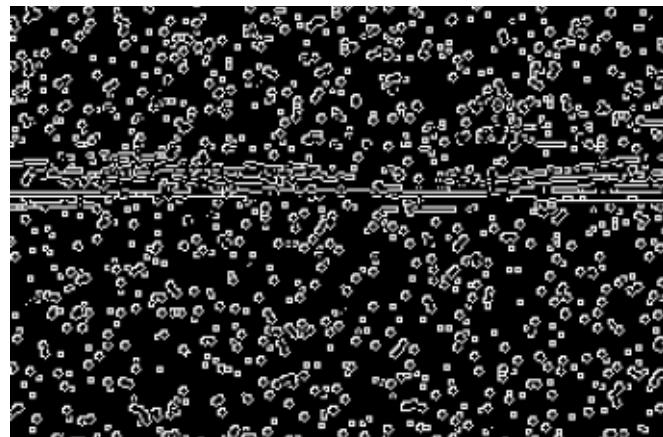
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 105.59, PSNR: 27.89 dB, FOM: 0.04

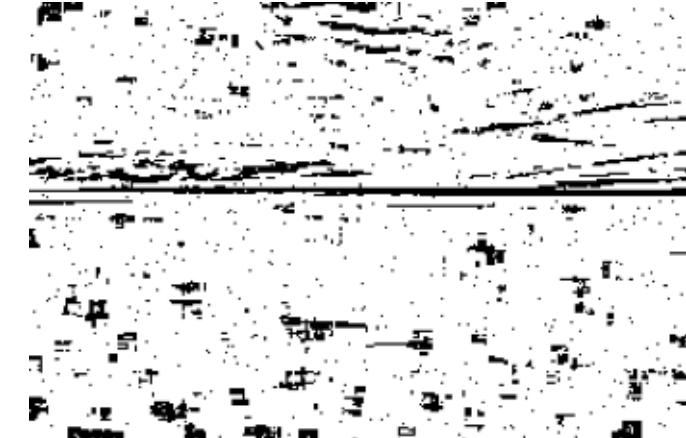
Original Image



Noisy Image



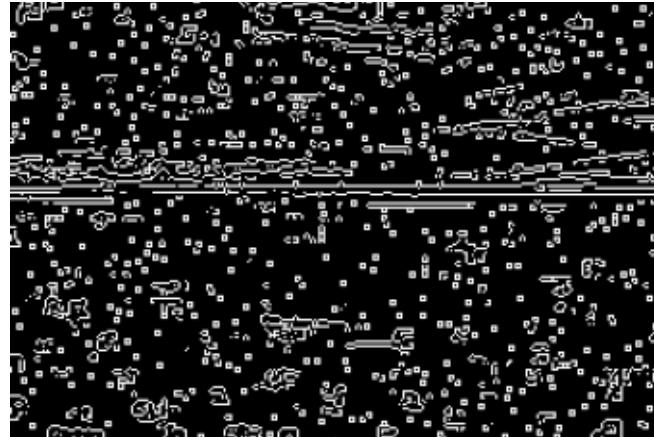
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 105.45, PSNR: 27.90 dB, FOM: 0.05

Original Image



Noisy Image



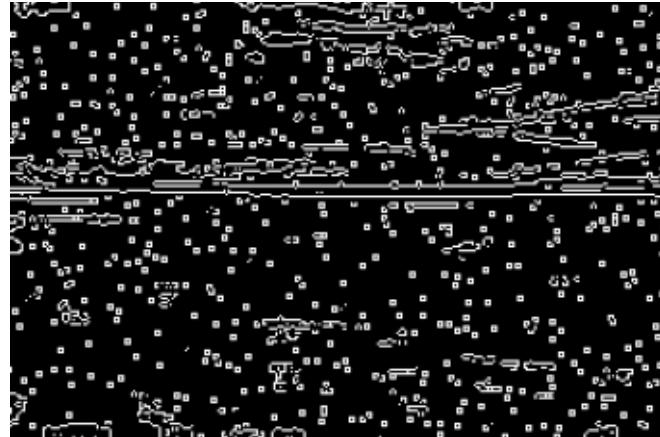
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 0.98, PSNR: 48.20 dB, FOM: 0.71

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 9x9  
MSE: 0.48, PSNR: 51.30 dB, FOM: 0.80

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Adaptive Median Filter - Kernel Size: 15x15  
MSE: 0.29, PSNR: 53.43 dB, FOM: 0.89

Original Image



Noisy Image



Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter



Bilateral Filter - Kernel Size: 3x3  
MSE: 8.29, PSNR: 38.95 dB, FOM: 0.08

Original Image



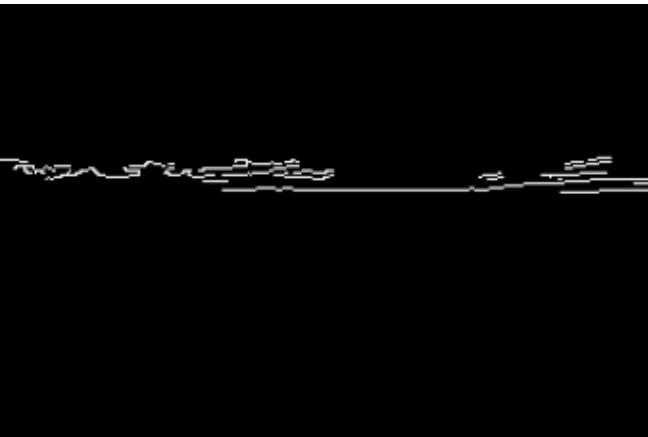
Noisy Image



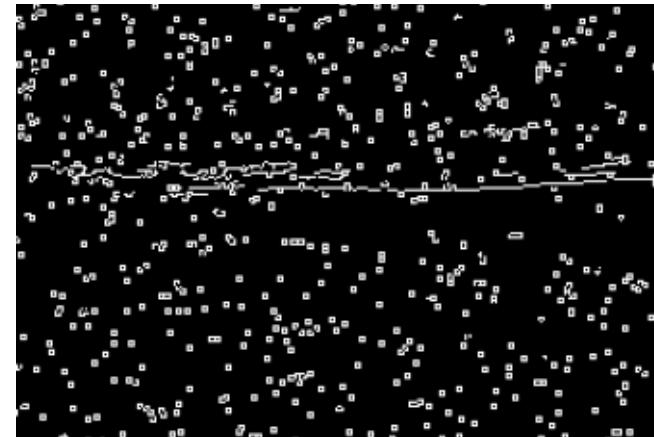
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 9x9  
MSE: 10.23, PSNR: 38.03 dB, FOM: 0.05

Original Image



Noisy Image



Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter



Bilateral Filter - Kernel Size: 15x15  
MSE: 13.46, PSNR: 36.84 dB, FOM: 0.00

Original Image



Noisy Image



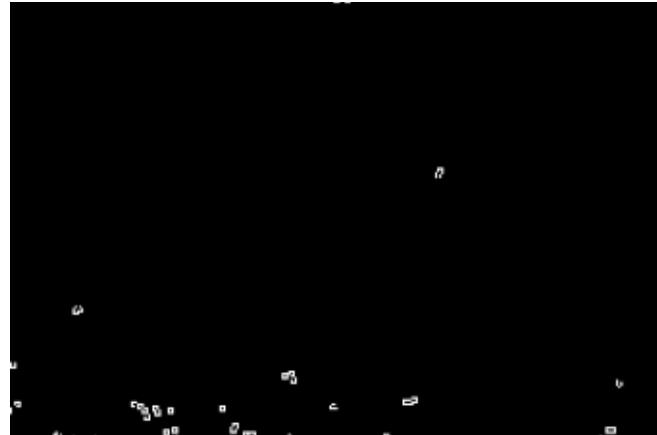
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

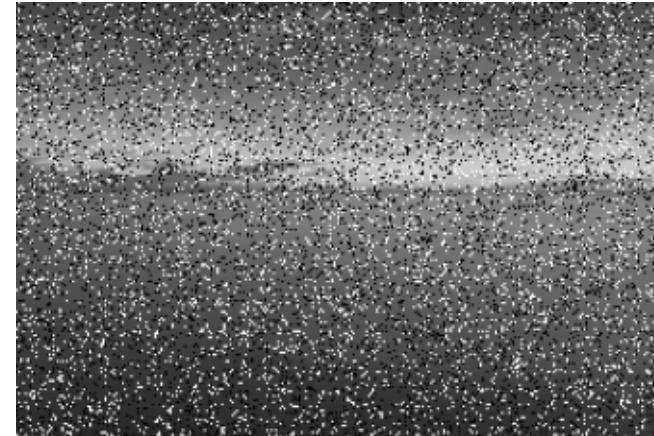


Box Filter - Kernel Size: 3x3  
MSE: 82.75, PSNR: 28.95 dB, FOM: 0.02

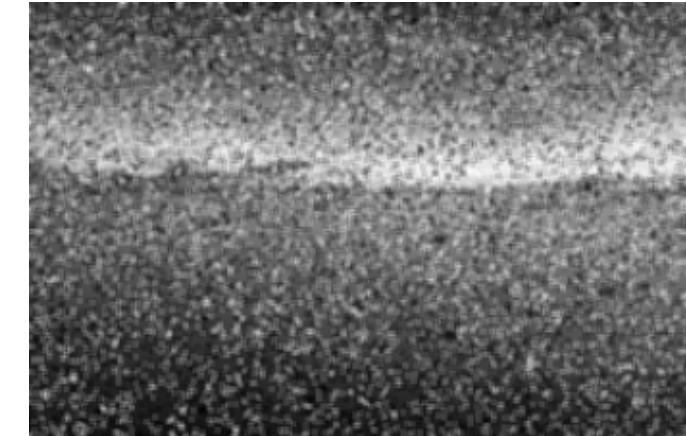
Original Image



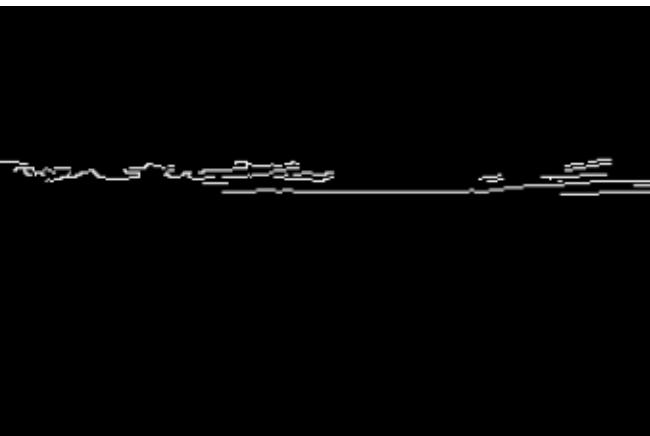
Noisy Image



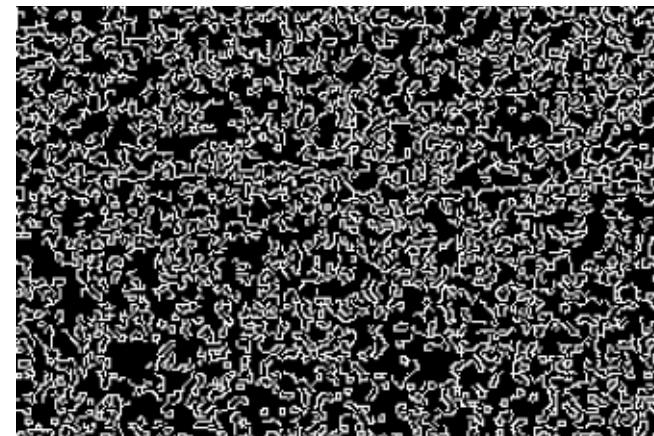
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

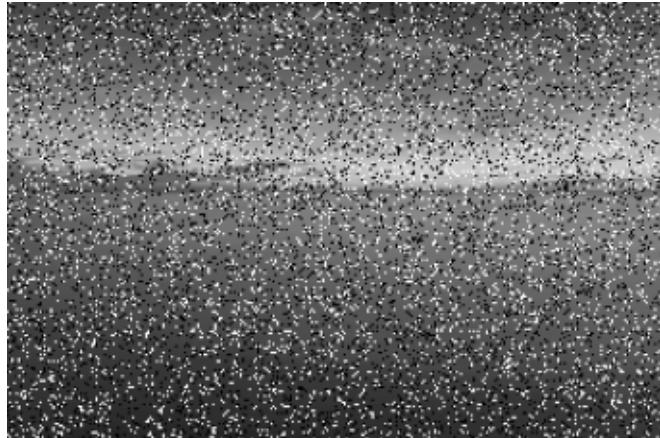


Box Filter - Kernel Size: 9x9  
MSE: 66.15, PSNR: 29.93 dB, FOM: 0.00

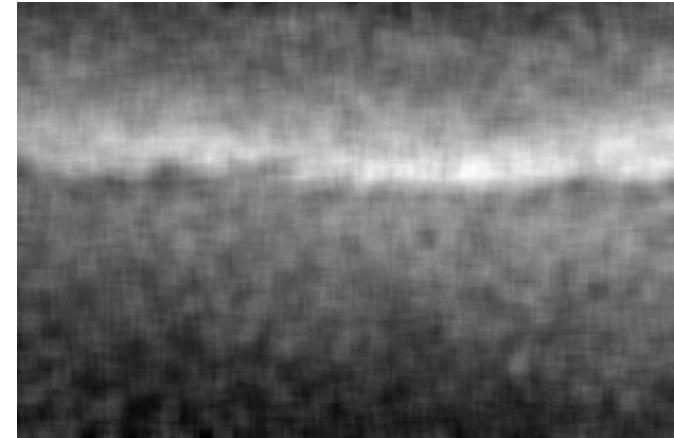
Original Image



Noisy Image



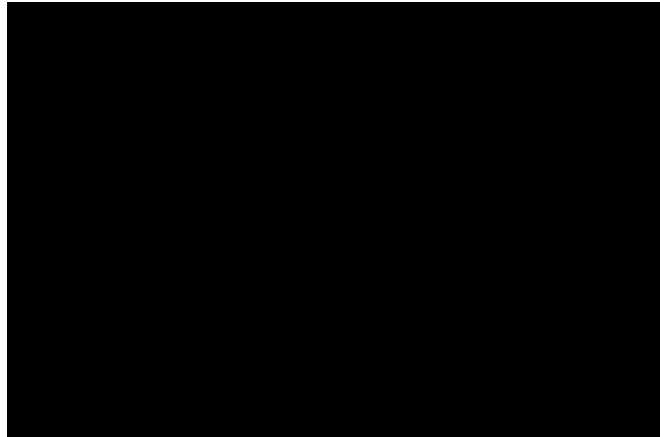
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

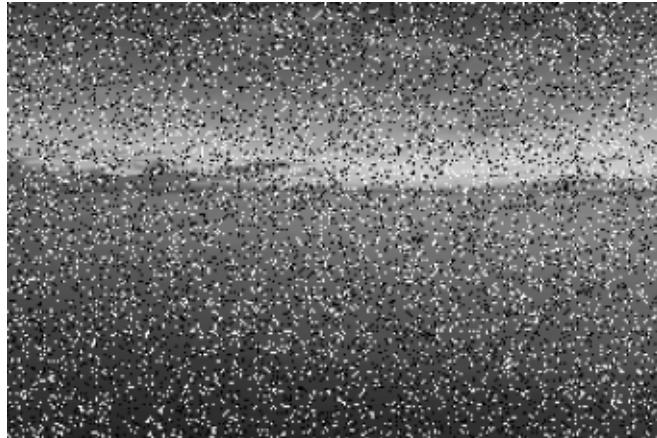


Box Filter - Kernel Size: 15x15  
MSE: 66.54, PSNR: 29.90 dB, FOM: 0.00

Original Image



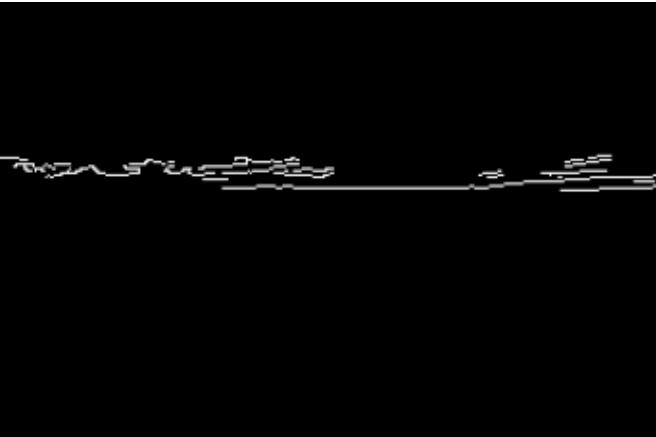
Noisy Image



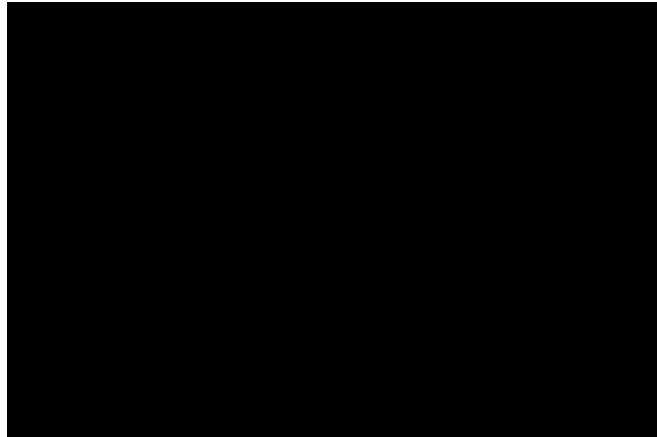
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

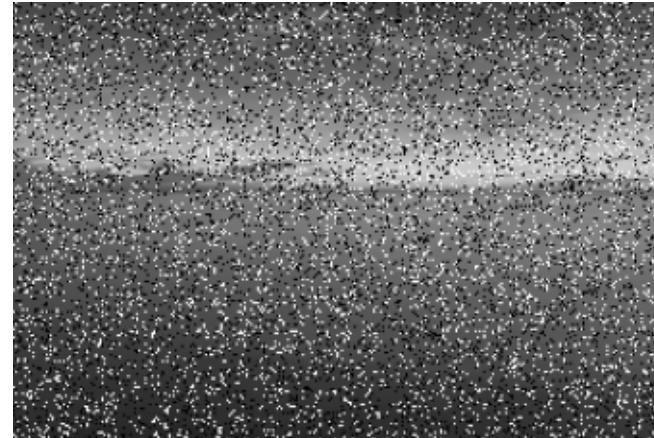


Gaussian Filter - Kernel Size: 3x3  
MSE: 78.95, PSNR: 29.16 dB, FOM: 0.01

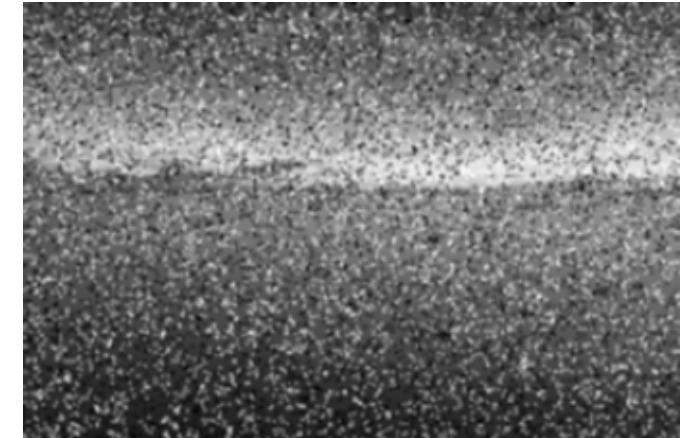
Original Image



Noisy Image



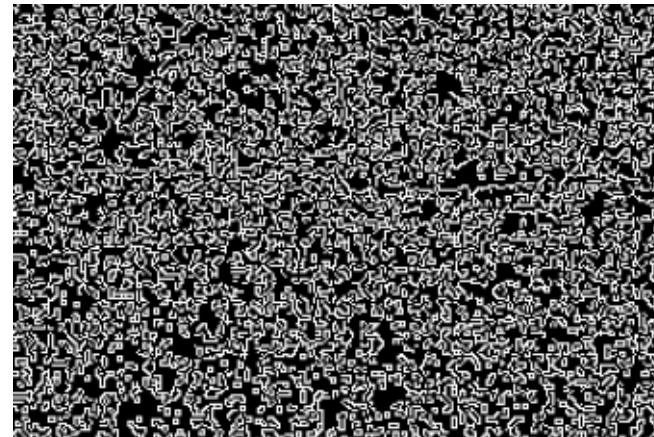
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

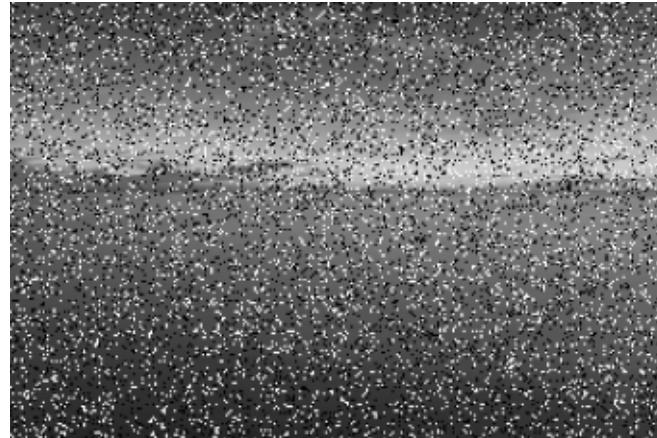


Gaussian Filter - Kernel Size: 9x9  
MSE: 68.07, PSNR: 29.80 dB, FOM: 0.00

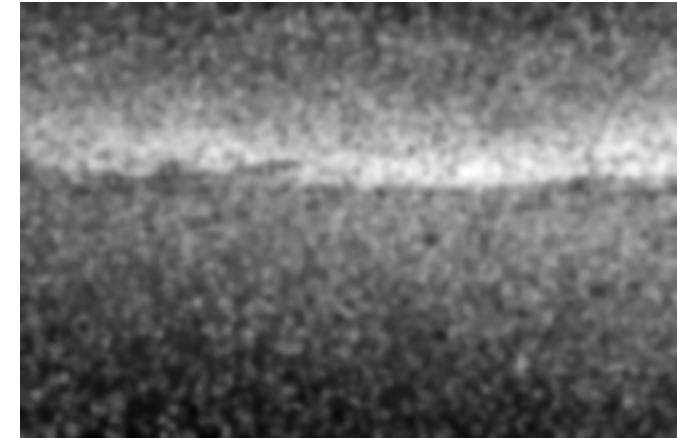
Original Image



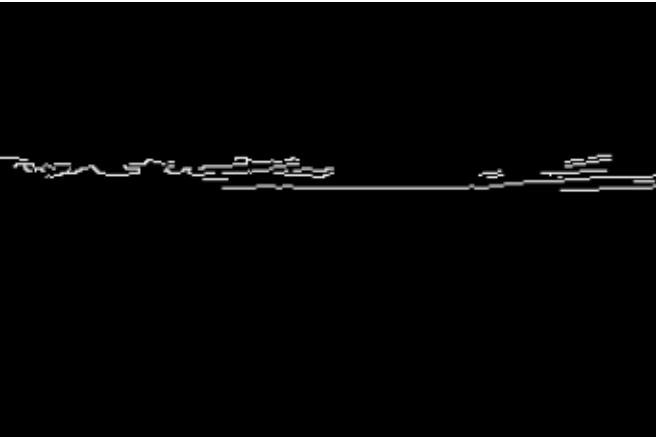
Noisy Image



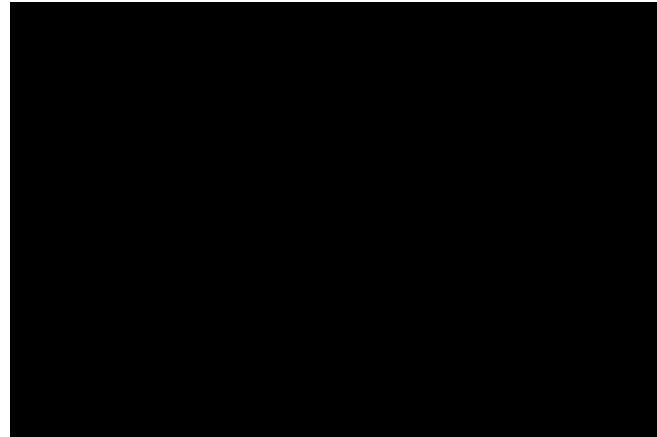
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

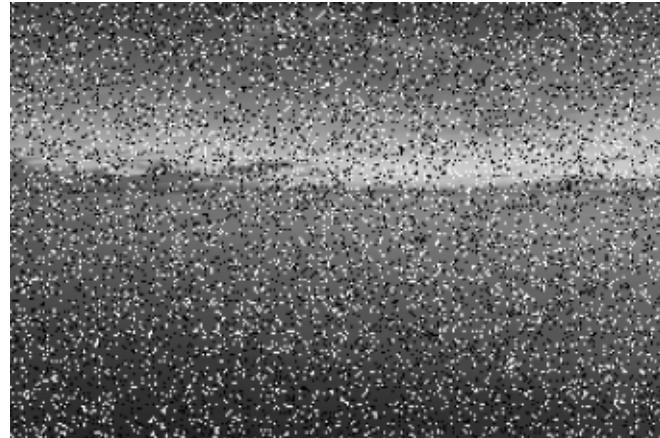


Gaussian Filter - Kernel Size: 15x15  
MSE: 65.43, PSNR: 29.97 dB, FOM: 0.00

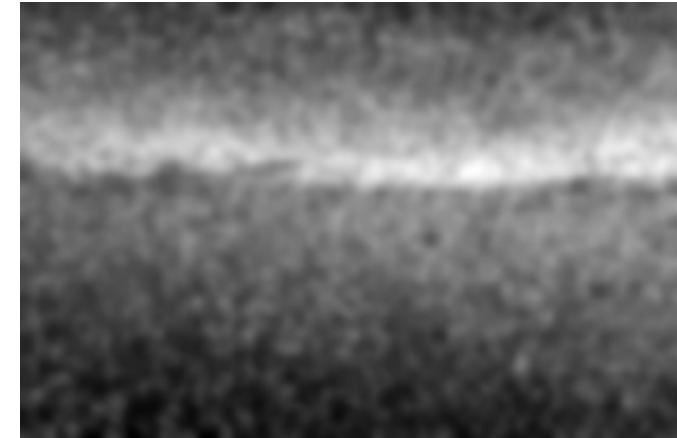
Original Image



Noisy Image



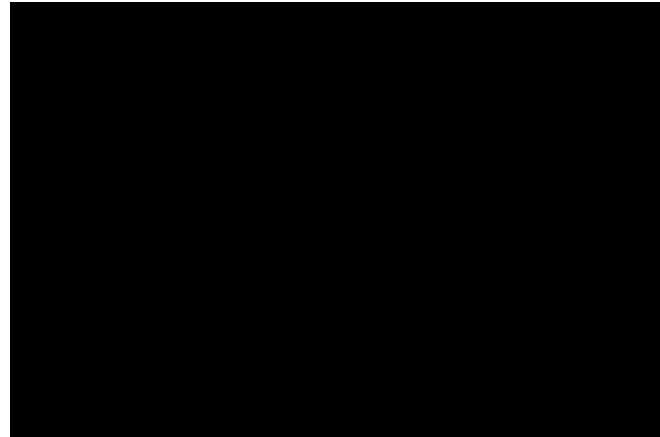
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

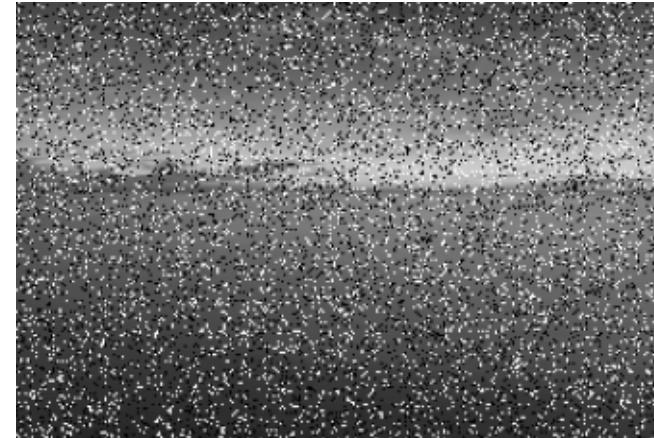


Median Filter - Kernel Size: 3x3  
MSE: 3.57, PSNR: 42.61 dB, FOM: 0.27

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

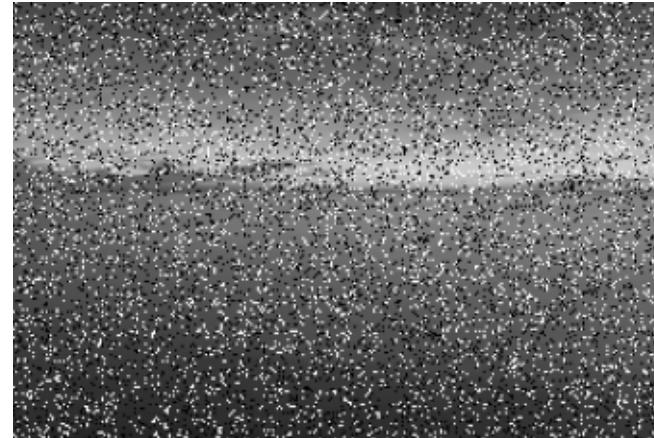


Median Filter - Kernel Size: 9x9  
MSE: 7.78, PSNR: 39.22 dB, FOM: 0.14

Original Image



Noisy Image



Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

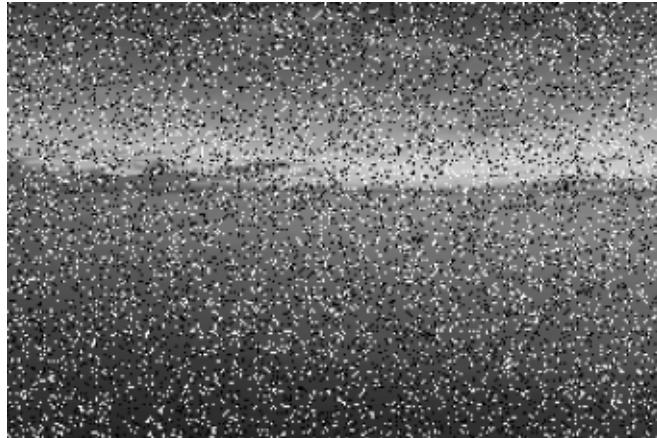


Median Filter - Kernel Size: 15x15  
MSE: 10.36, PSNR: 37.98 dB, FOM: 0.05

Original Image



Noisy Image



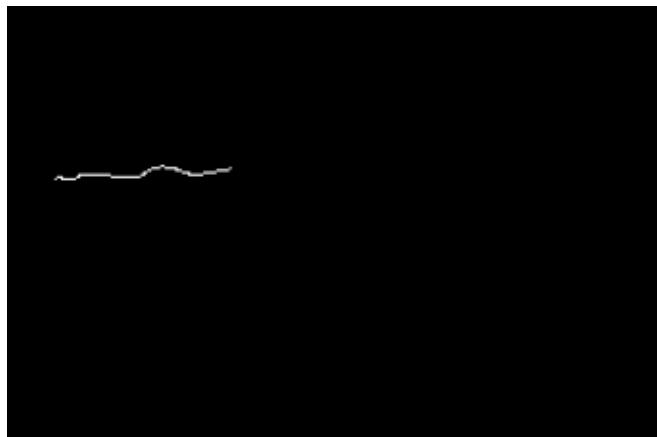
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

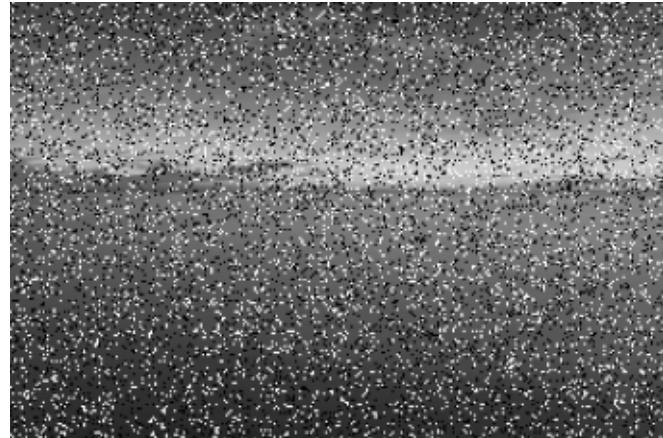


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 105.77, PSNR: 27.89 dB, FOM: 0.01

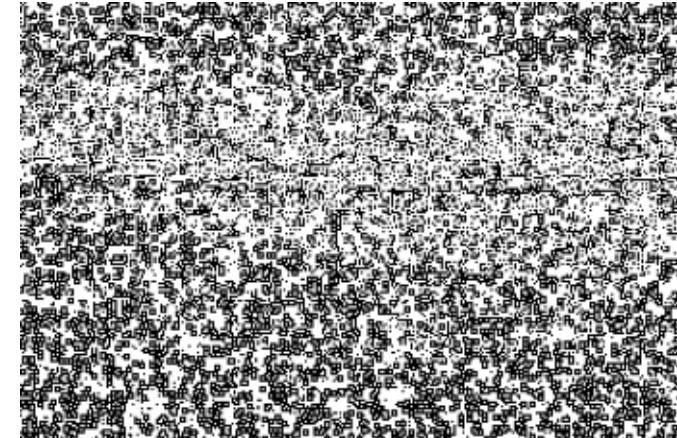
Original Image



Noisy Image



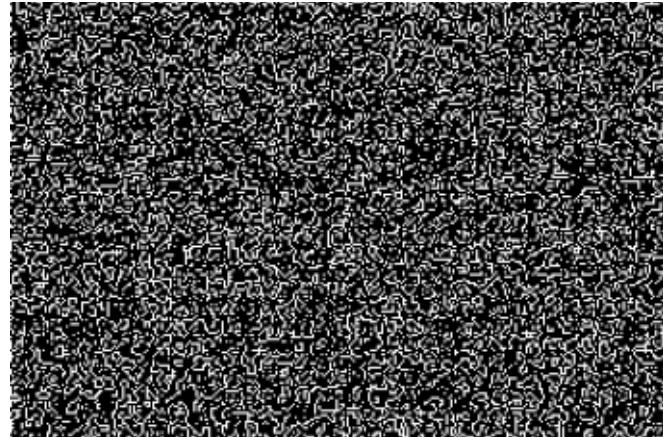
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

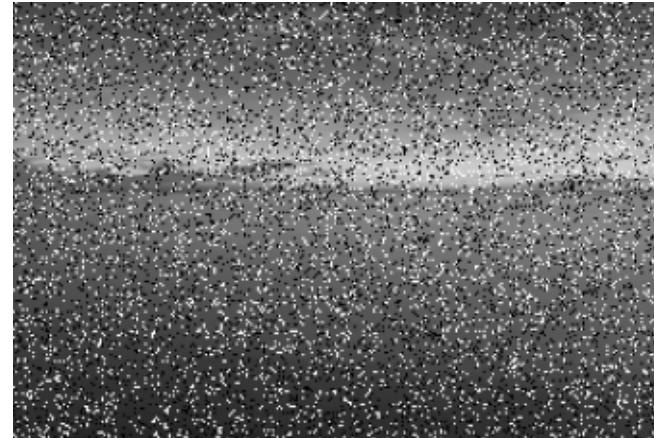


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 106.02, PSNR: 27.88 dB, FOM: 0.02

Original Image



Noisy Image



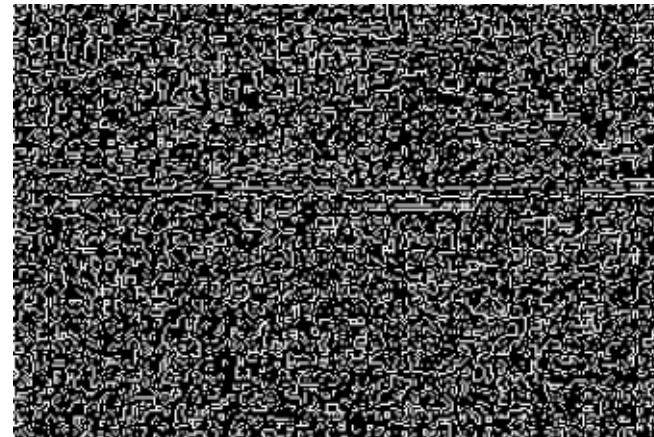
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

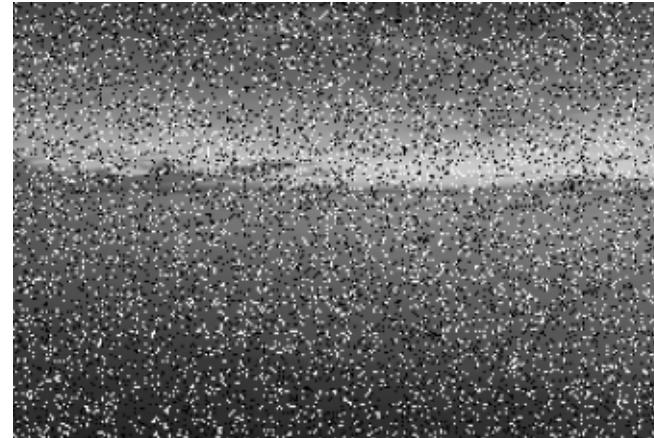


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 105.65, PSNR: 27.89 dB, FOM: 0.02

Original Image



Noisy Image



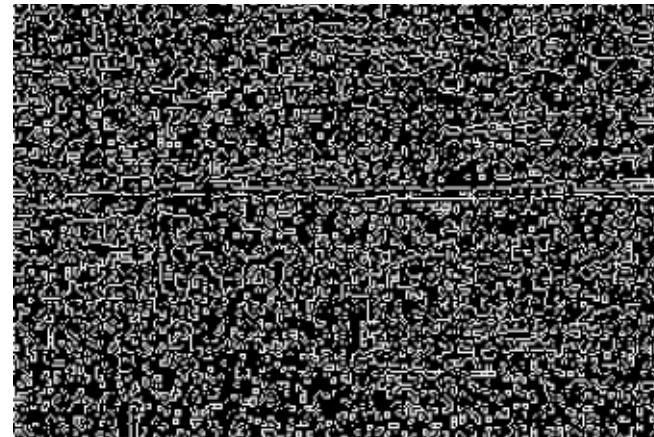
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter



Adaptive Median Filter - Kernel Size: 3x3  
MSE: 1.62, PSNR: 46.02 dB, FOM: 0.44

Original Image



Noisy Image



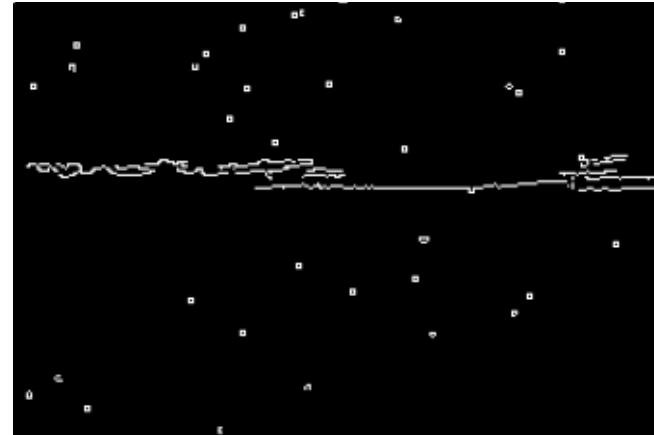
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

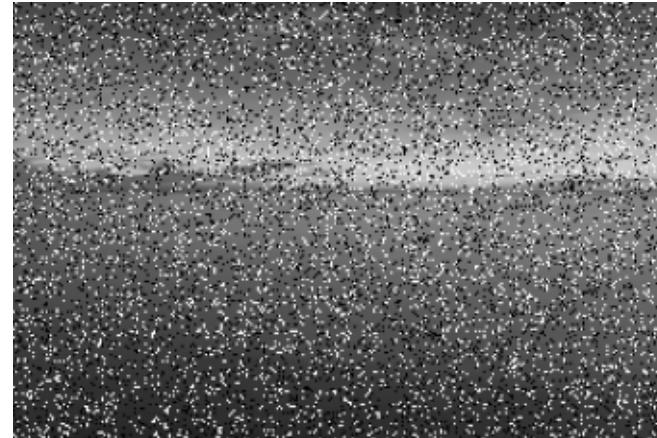


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 1.48, PSNR: 46.42 dB, FOM: 0.53

Original Image



Noisy Image



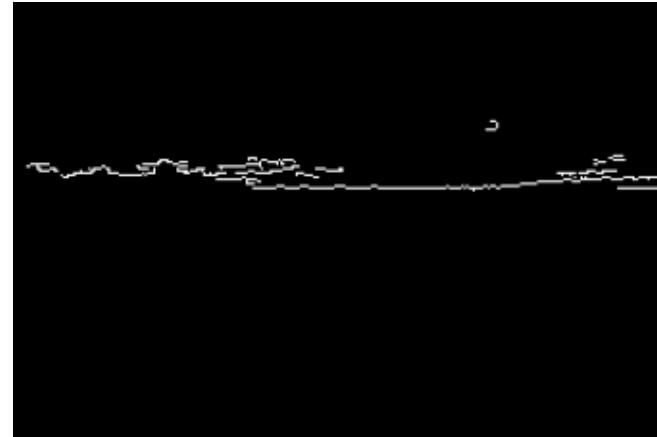
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

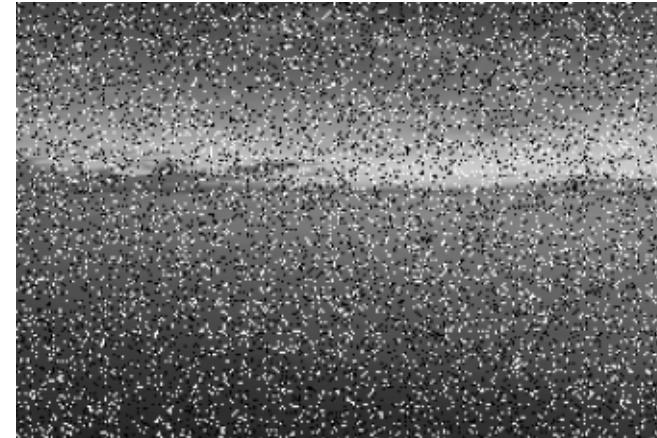


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 2.03, PSNR: 45.05 dB, FOM: 0.50

Original Image



Noisy Image



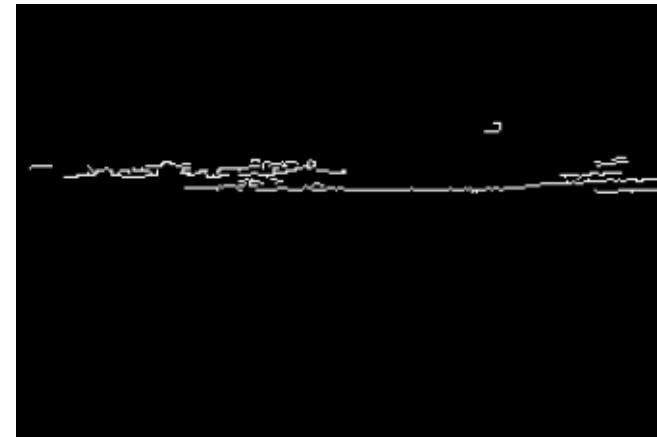
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

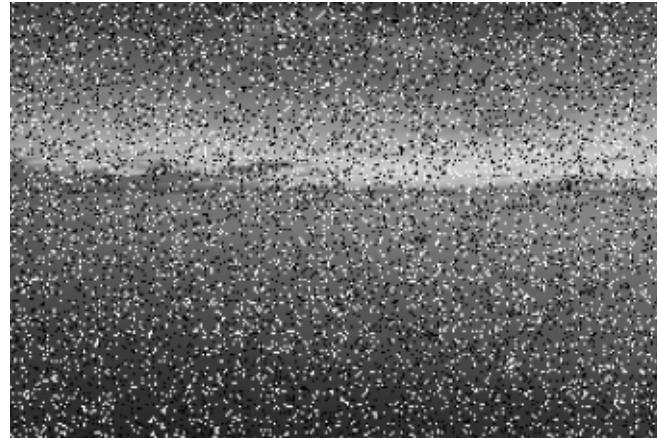


Bilateral Filter - Kernel Size: 3x3  
MSE: 49.04, PSNR: 31.23 dB, FOM: 0.01

Original Image



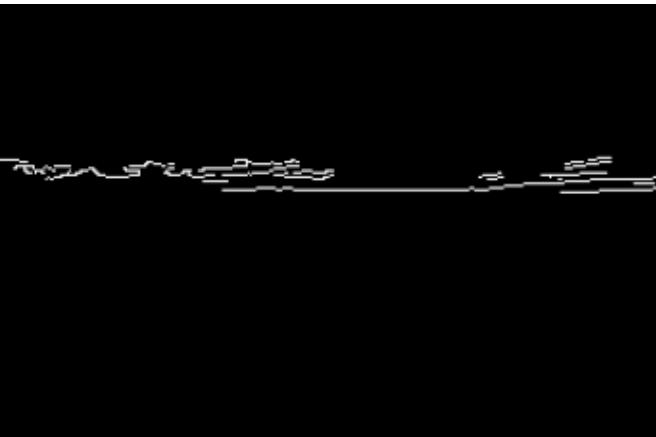
Noisy Image



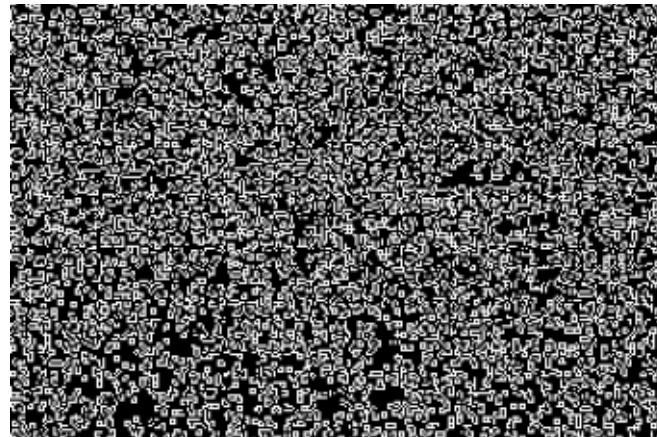
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

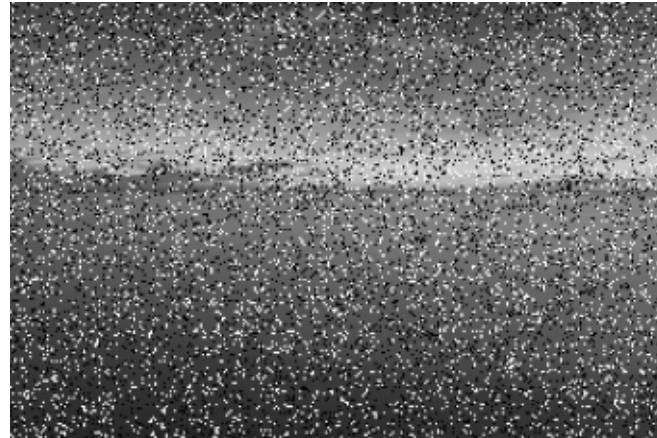


Bilateral Filter - Kernel Size: 9x9  
MSE: 35.00, PSNR: 32.69 dB, FOM: 0.01

Original Image



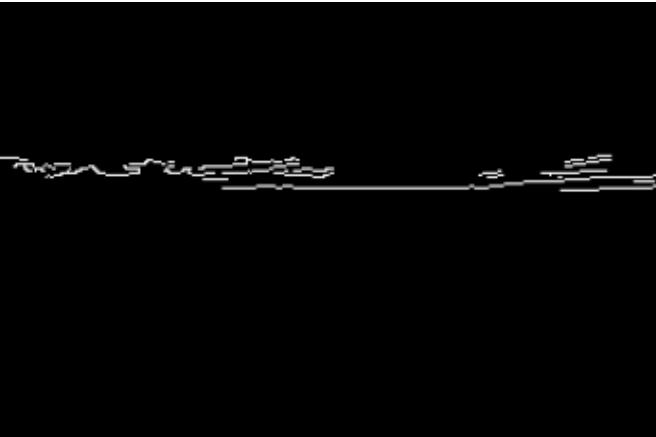
Noisy Image



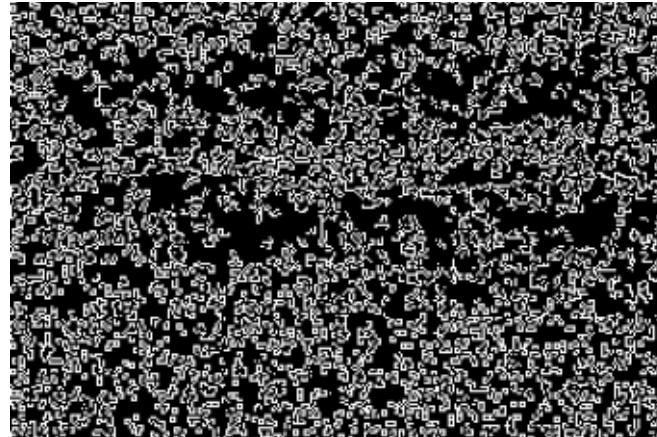
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

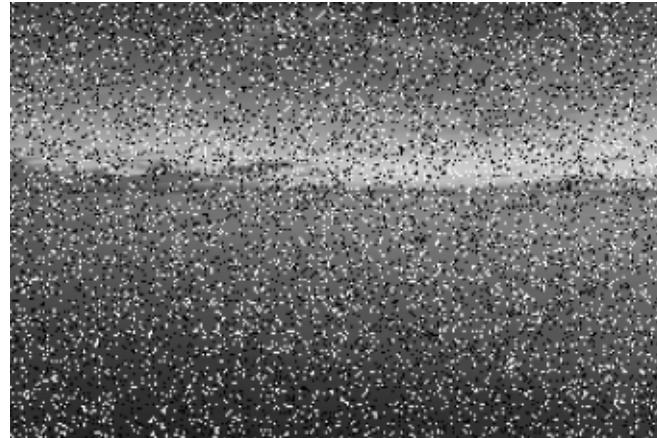


Bilateral Filter - Kernel Size: 15x15  
MSE: 34.42, PSNR: 32.76 dB, FOM: 0.01

Original Image



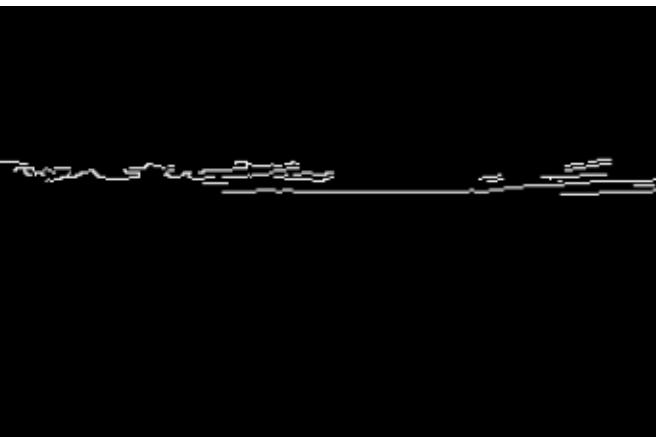
Noisy Image



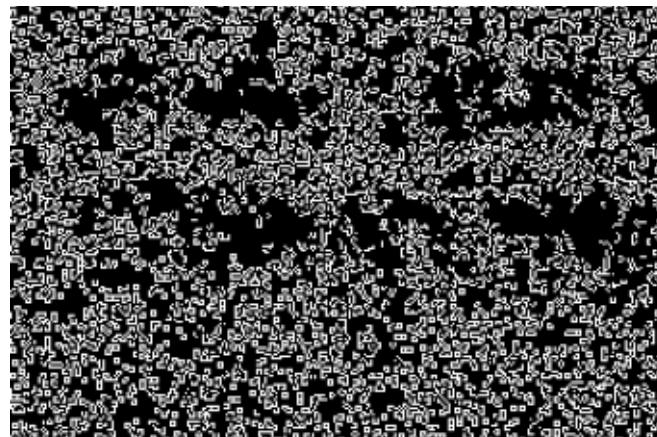
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

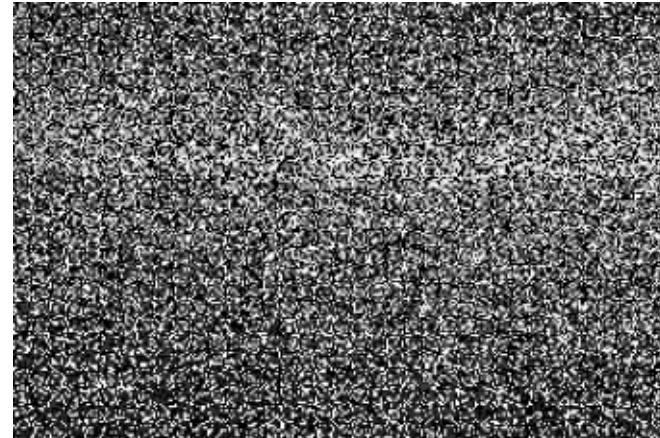


Box Filter - Kernel Size: 3x3  
MSE: 101.85, PSNR: 28.05 dB, FOM: 0.01

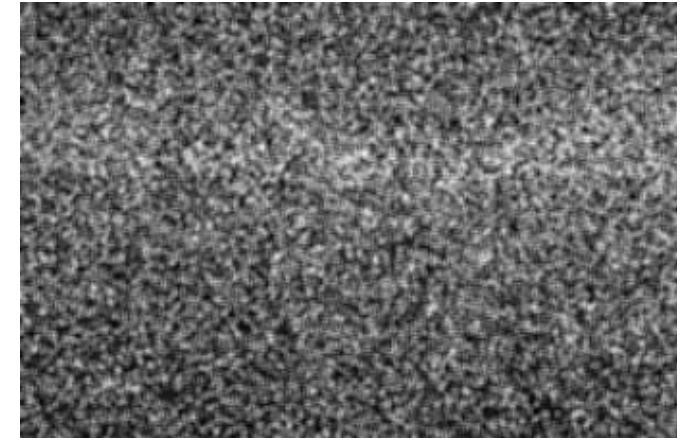
Original Image



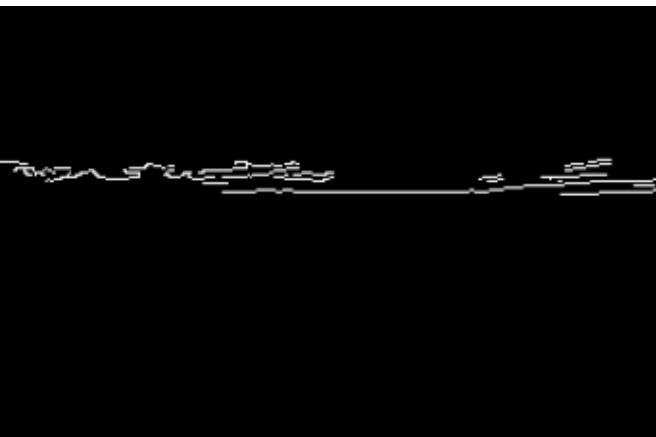
Noisy Image



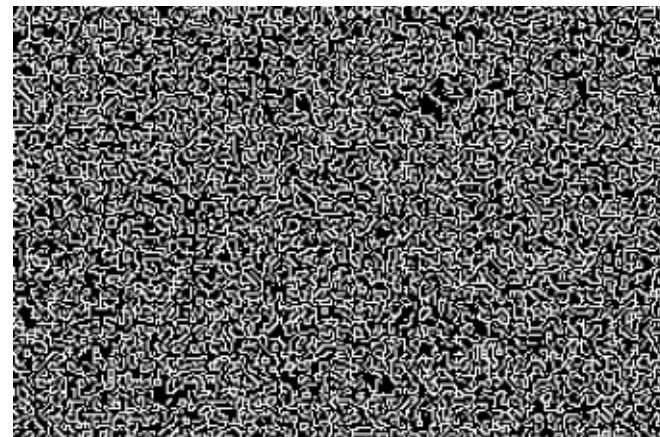
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

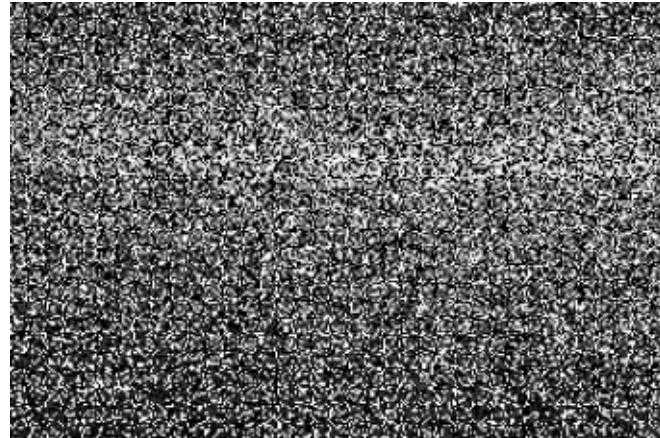


Box Filter - Kernel Size: 9x9  
MSE: 92.66, PSNR: 28.46 dB, FOM: 0.00

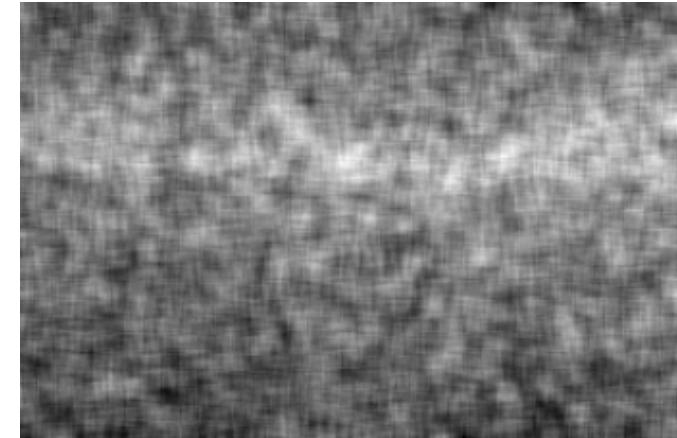
Original Image



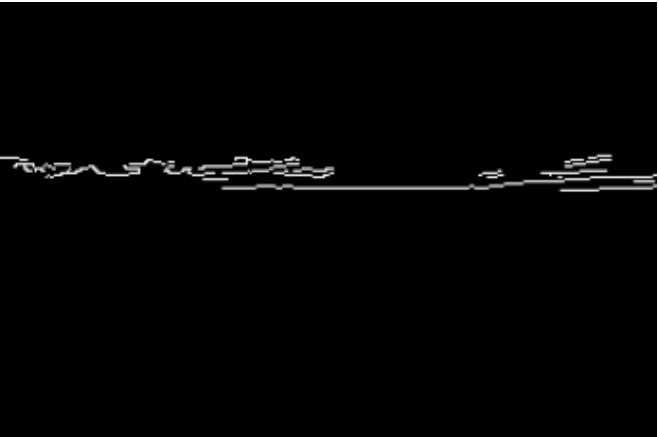
Noisy Image



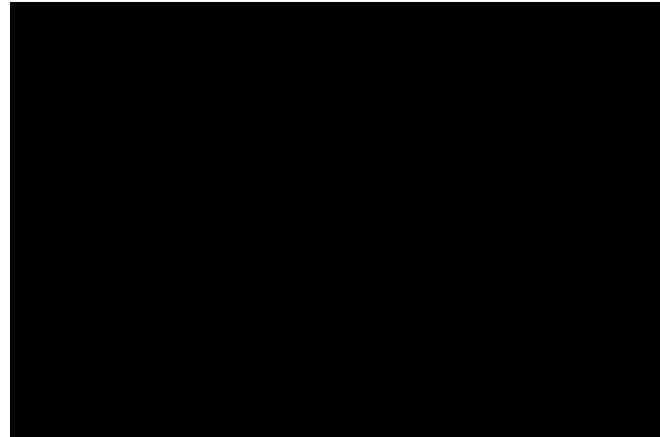
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

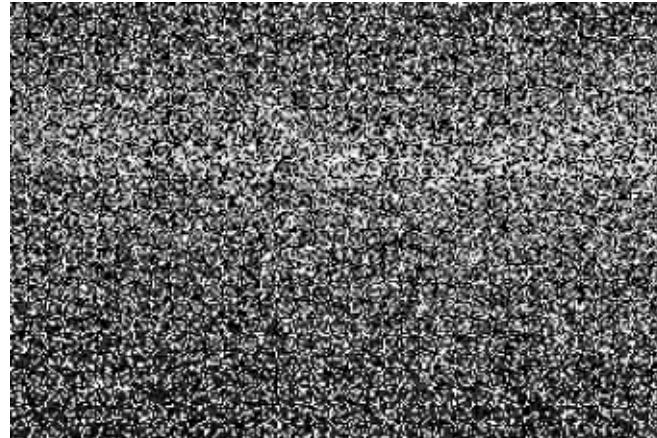


Box Filter - Kernel Size: 15x15  
MSE: 89.34, PSNR: 28.62 dB, FOM: 0.00

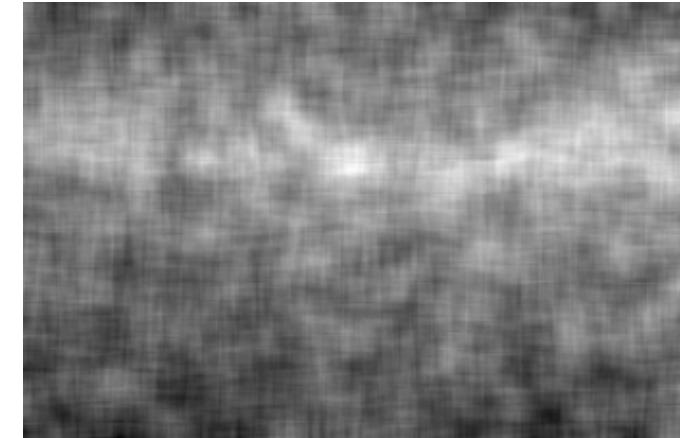
Original Image



Noisy Image



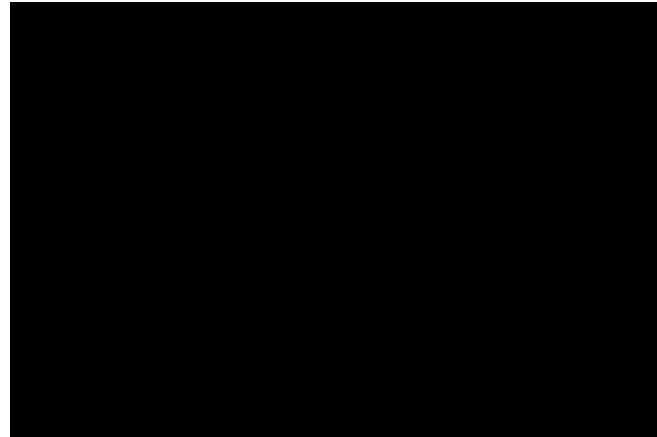
Filtered Image (Box Filter)



Edges of Original Image



Edges after Box Filter

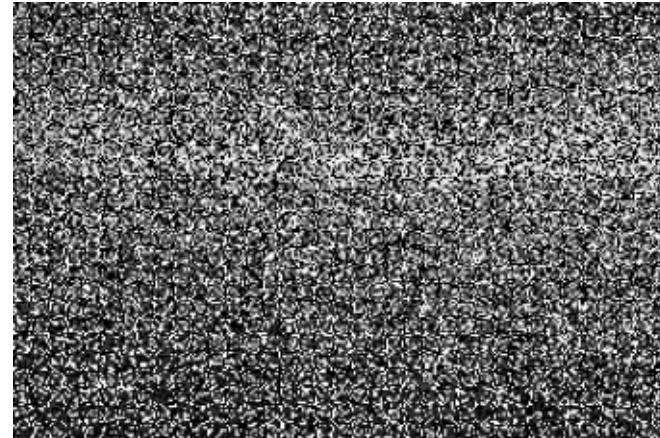


Gaussian Filter - Kernel Size: 3x3  
MSE: 102.99, PSNR: 28.00 dB, FOM: 0.01

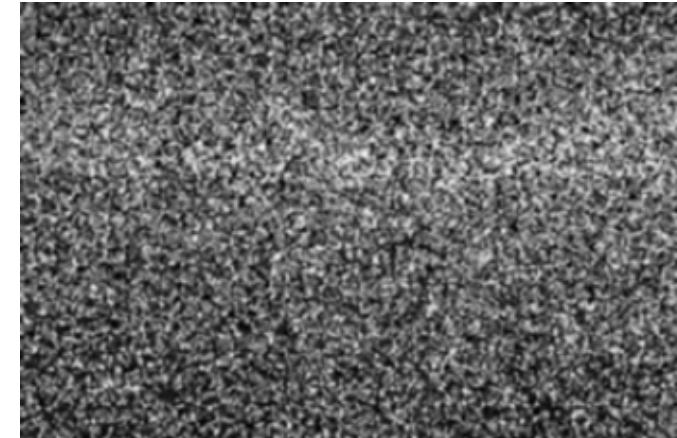
Original Image



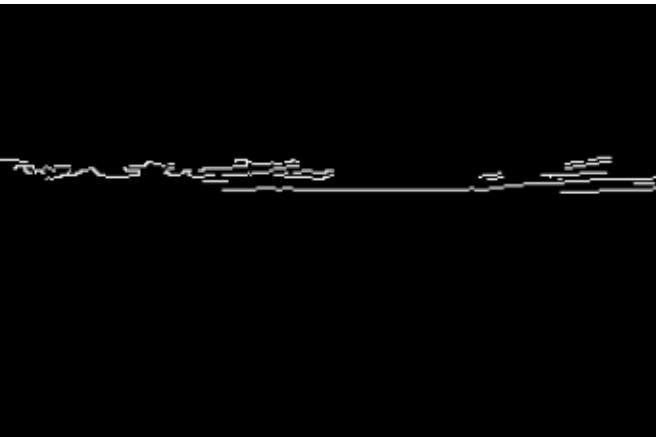
Noisy Image



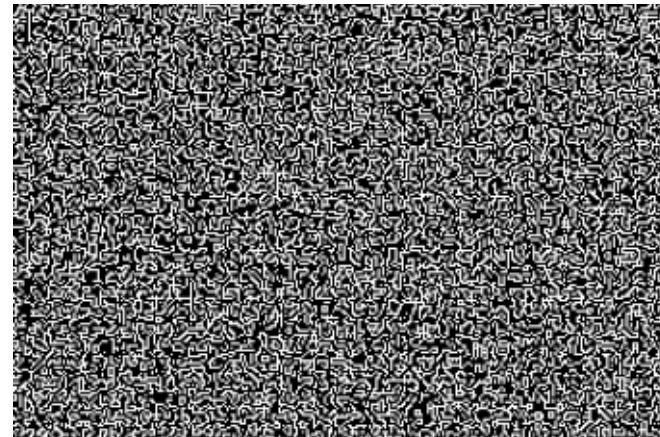
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

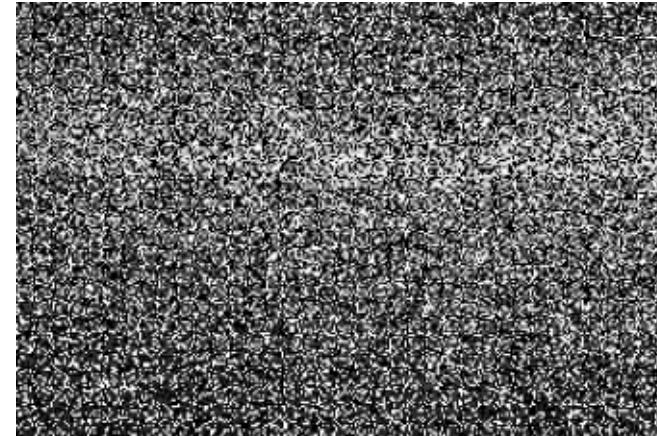


Gaussian Filter - Kernel Size: 9x9  
MSE: 96.18, PSNR: 28.30 dB, FOM: 0.02

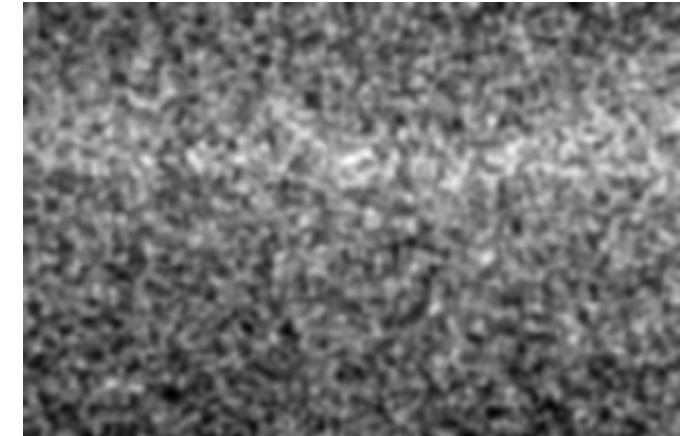
Original Image



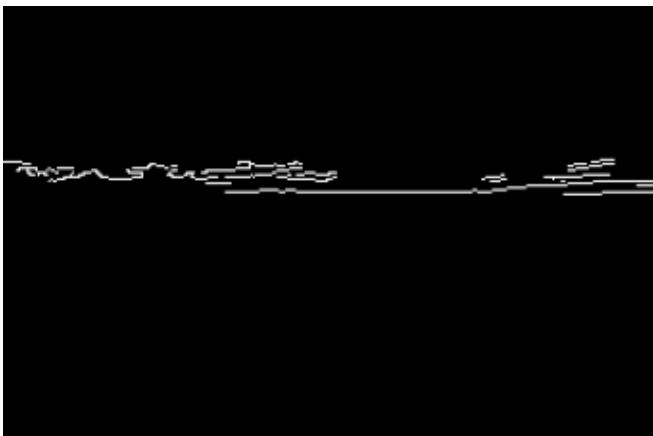
Noisy Image



Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

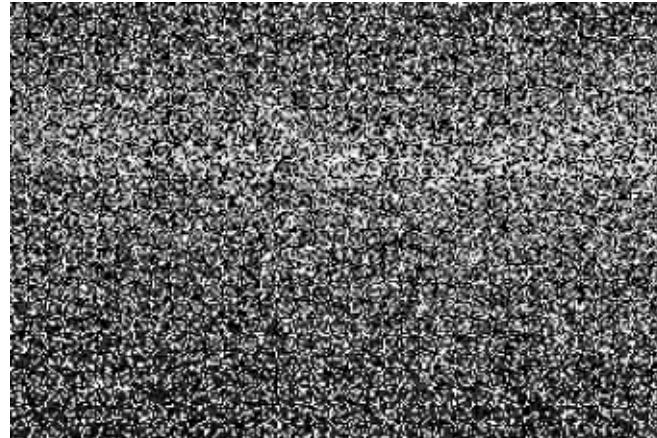


Gaussian Filter - Kernel Size: 15x15  
MSE: 93.23, PSNR: 28.44 dB, FOM: 0.00

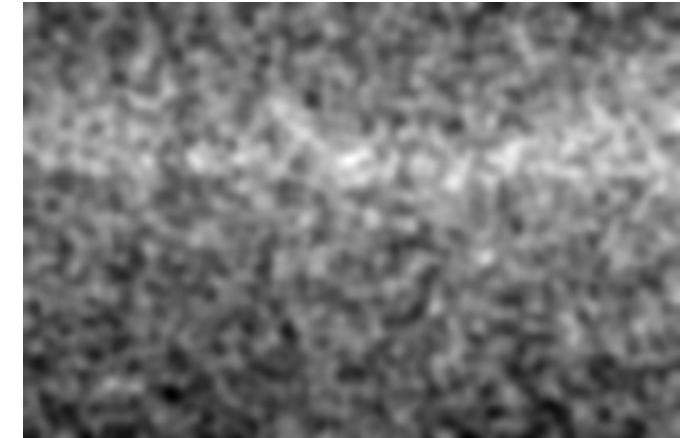
Original Image



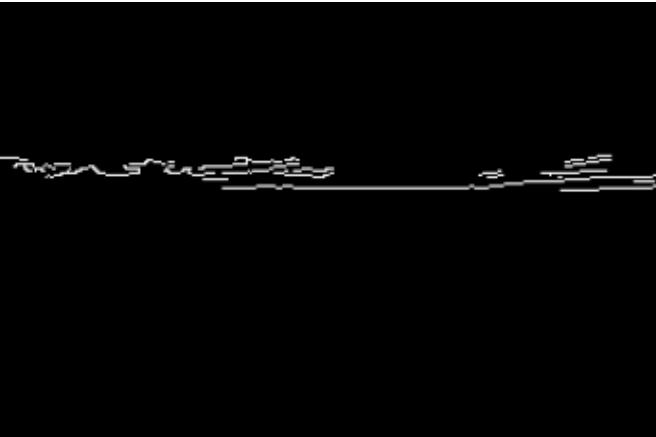
Noisy Image



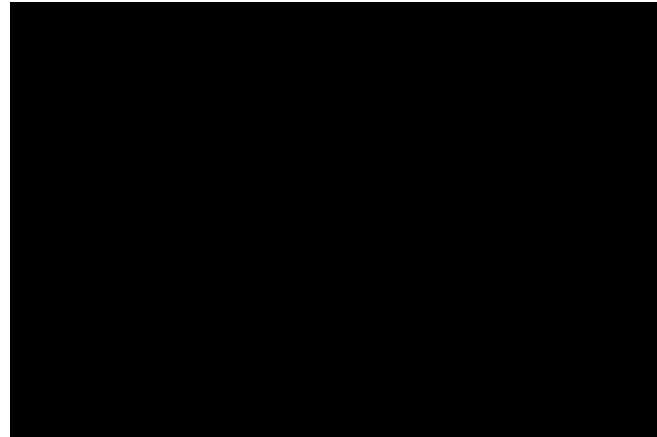
Filtered Image (Gaussian Filter)



Edges of Original Image



Edges after Gaussian Filter

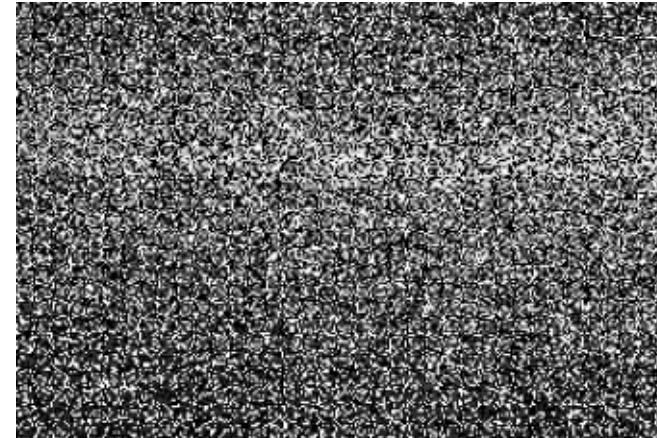


Median Filter - Kernel Size: 3x3  
MSE: 36.59, PSNR: 32.50 dB, FOM: 0.01

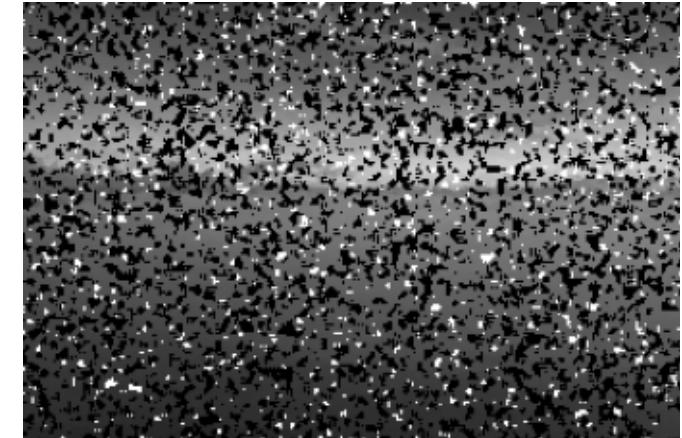
Original Image



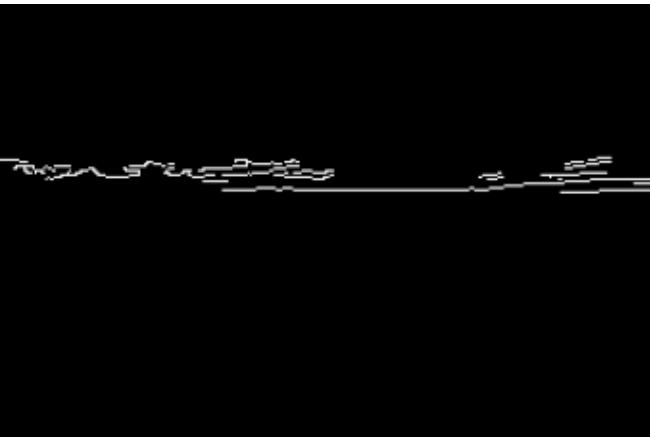
Noisy Image



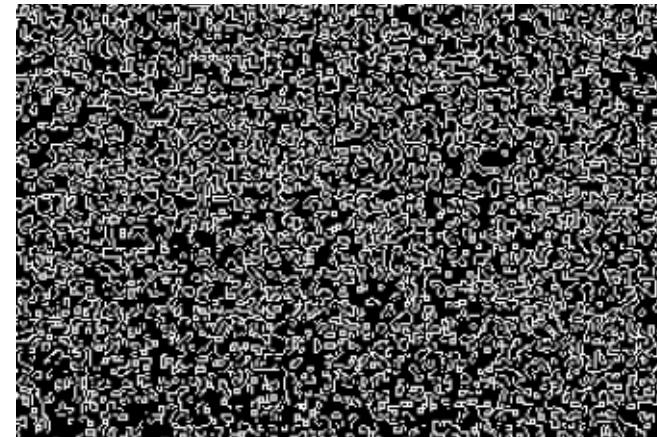
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

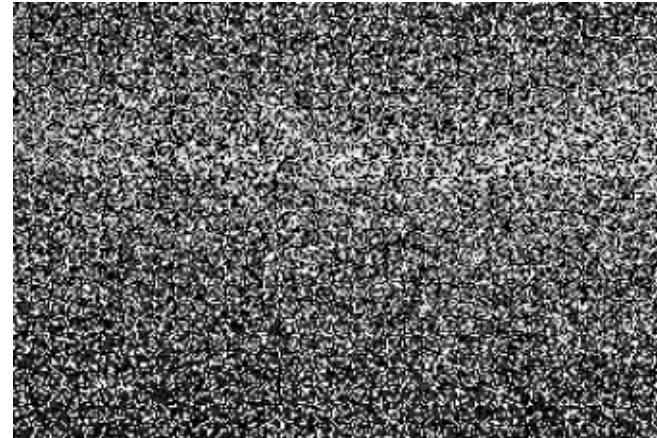


Median Filter - Kernel Size: 9x9  
MSE: 22.11, PSNR: 34.69 dB, FOM: 0.03

Original Image



Noisy Image



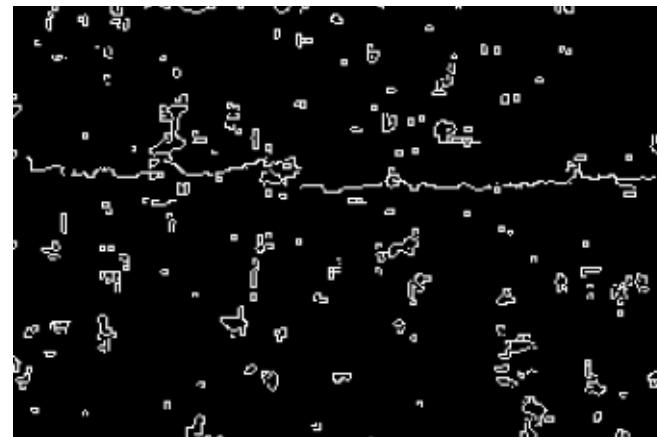
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

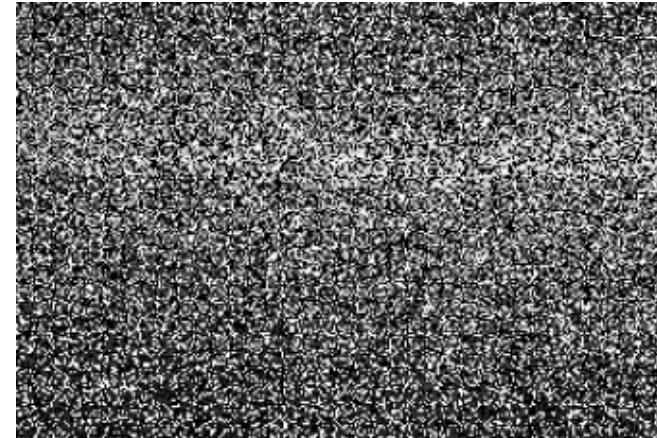


Median Filter - Kernel Size: 15x15  
MSE: 29.57, PSNR: 33.42 dB, FOM: 0.01

Original Image



Noisy Image



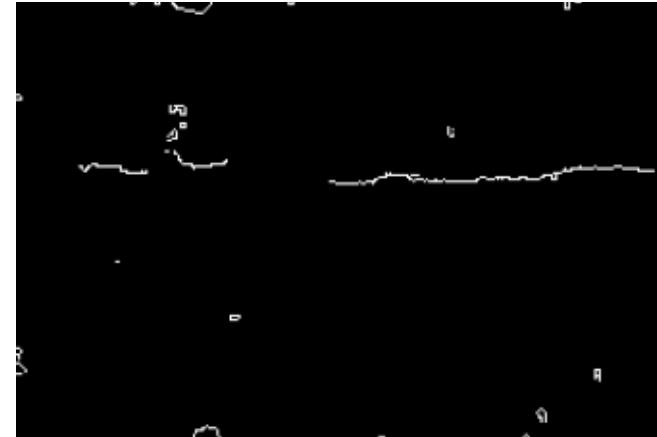
Filtered Image (Median Filter)



Edges of Original Image



Edges after Median Filter

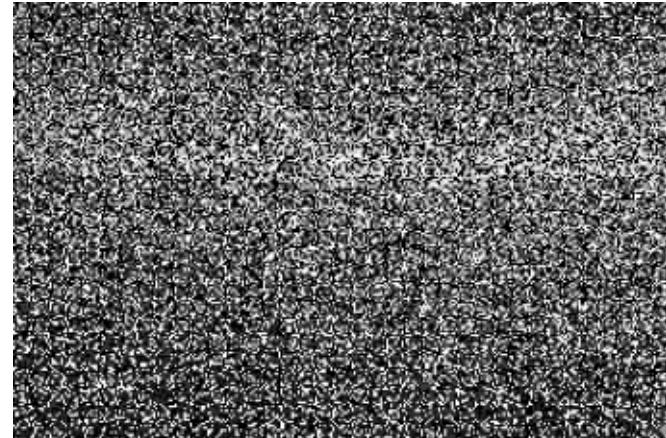


Adaptive Mean Filter - Kernel Size: 3x3  
MSE: 105.72, PSNR: 27.89 dB, FOM: 0.01

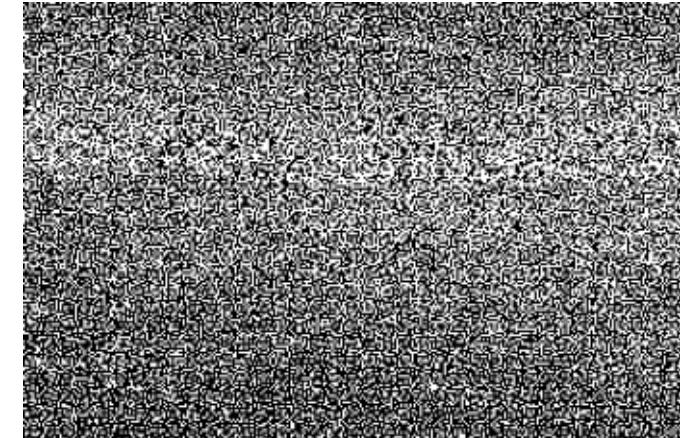
Original Image



Noisy Image



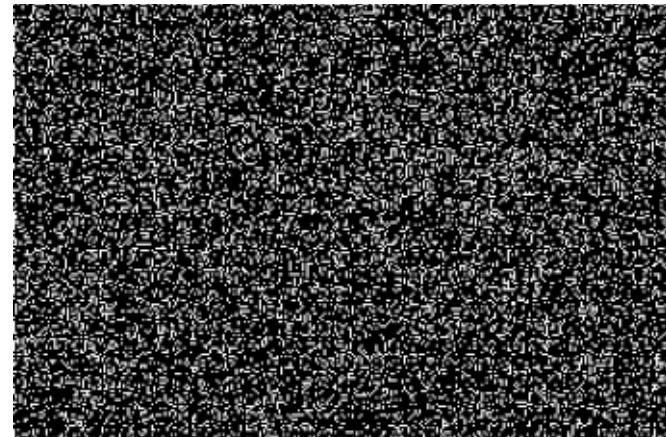
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

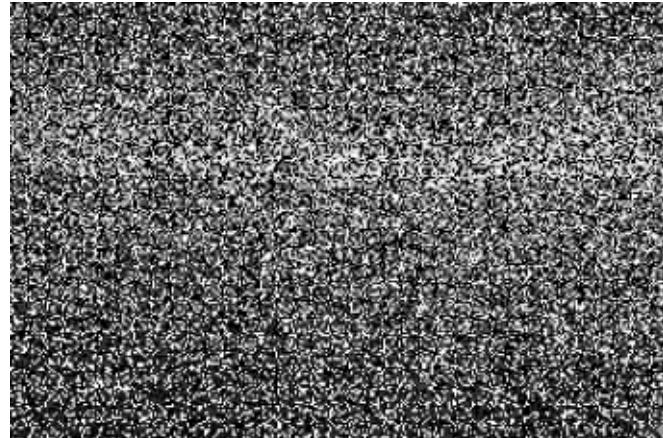


Adaptive Mean Filter - Kernel Size: 9x9  
MSE: 105.71, PSNR: 27.89 dB, FOM: 0.01

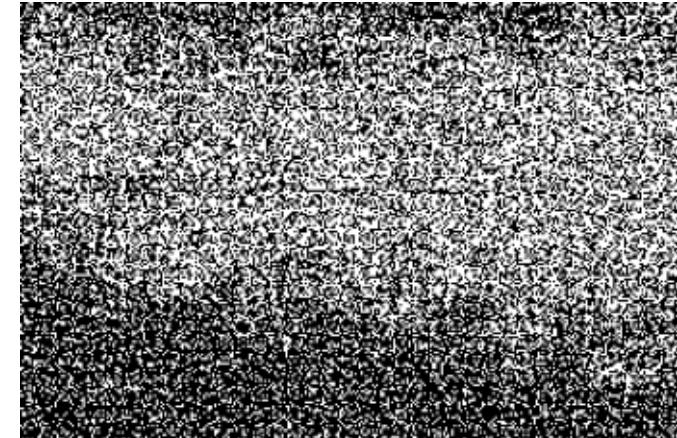
Original Image



Noisy Image



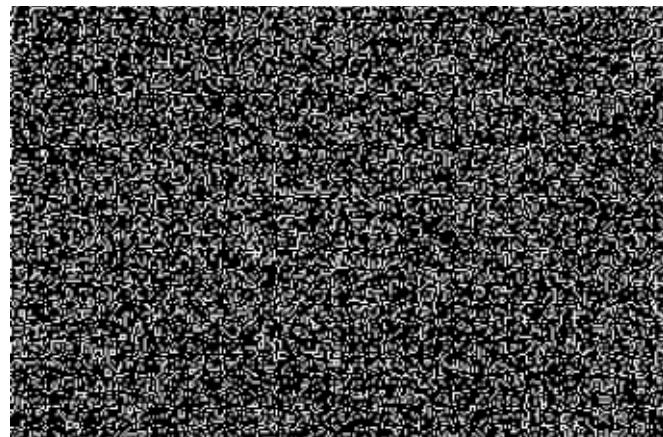
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

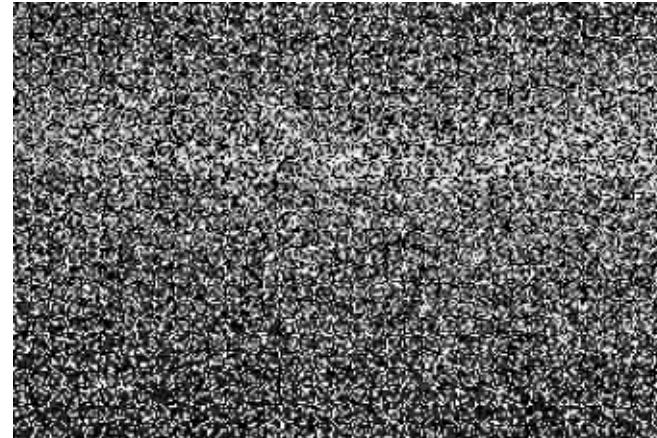


Adaptive Mean Filter - Kernel Size: 15x15  
MSE: 105.85, PSNR: 27.88 dB, FOM: 0.01

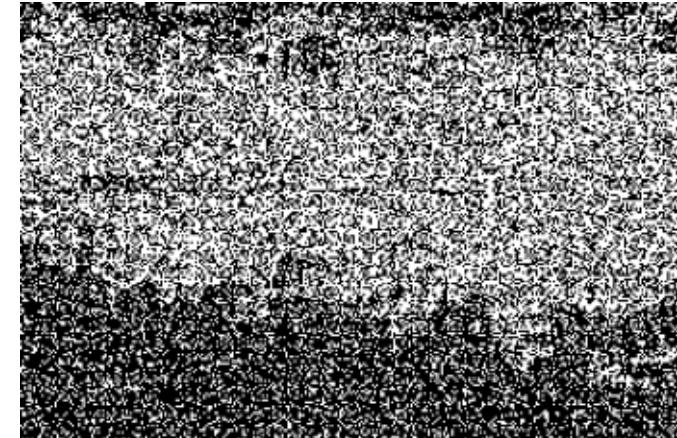
Original Image



Noisy Image



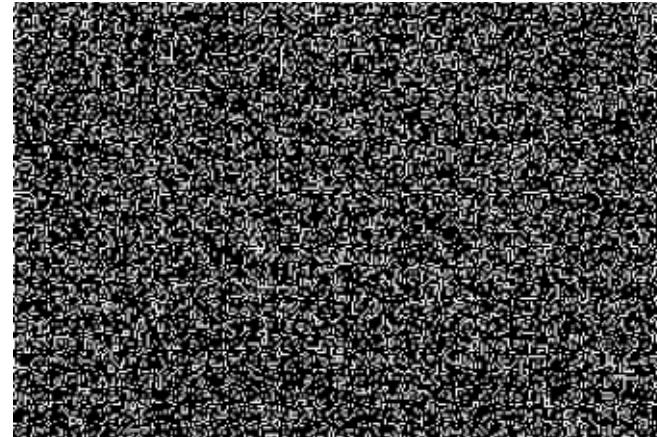
Filtered Image (Adaptive Mean Filter)



Edges of Original Image



Edges after Adaptive Mean Filter

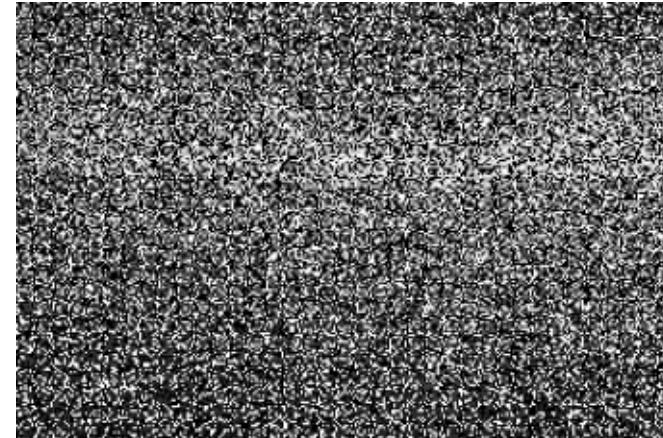


Adaptive Median Filter - Kernel Size: 3x3  
MSE: 35.11, PSNR: 32.68 dB, FOM: 0.01

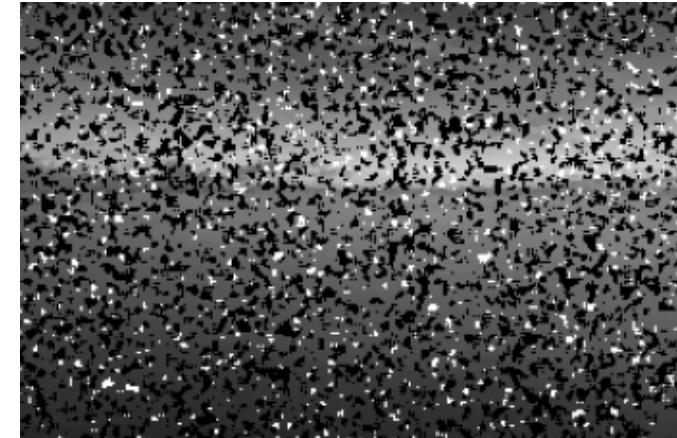
Original Image



Noisy Image



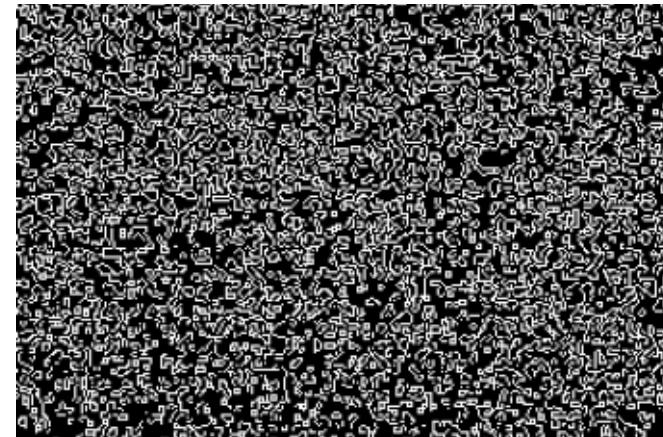
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

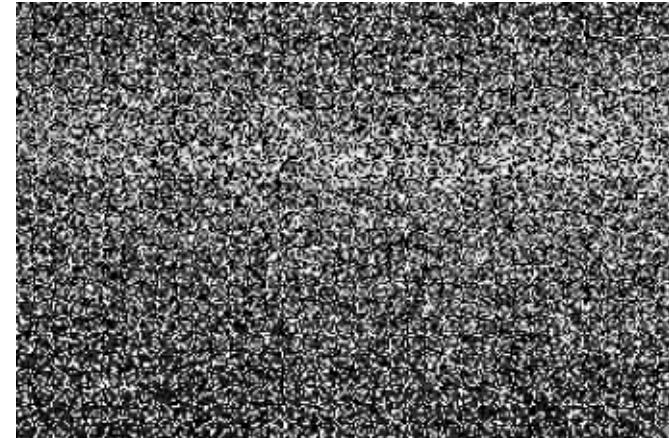


Adaptive Median Filter - Kernel Size: 9x9  
MSE: 15.53, PSNR: 36.22 dB, FOM: 0.06

Original Image



Noisy Image



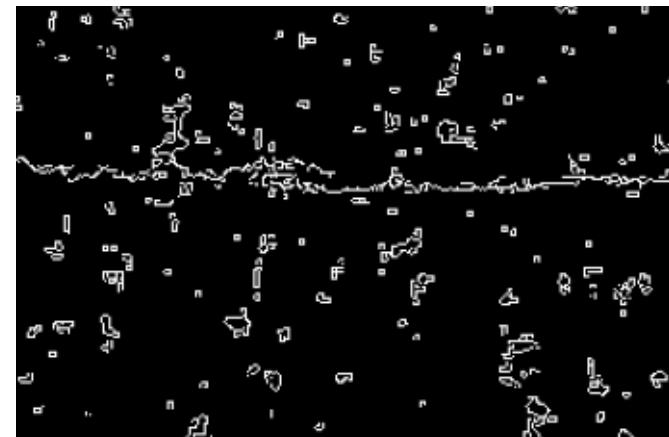
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

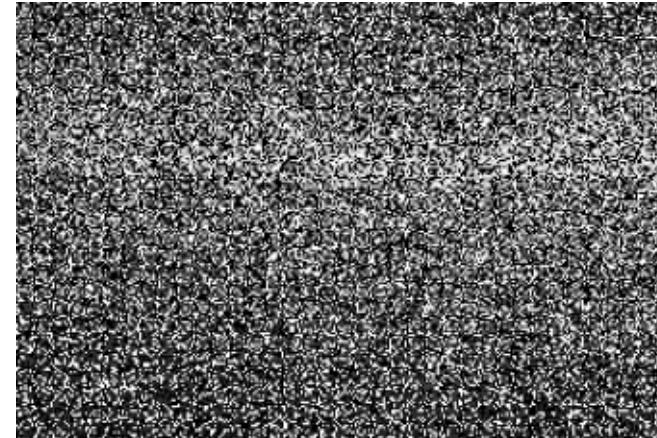


Adaptive Median Filter - Kernel Size: 15x15  
MSE: 18.61, PSNR: 35.43 dB, FOM: 0.14

Original Image



Noisy Image



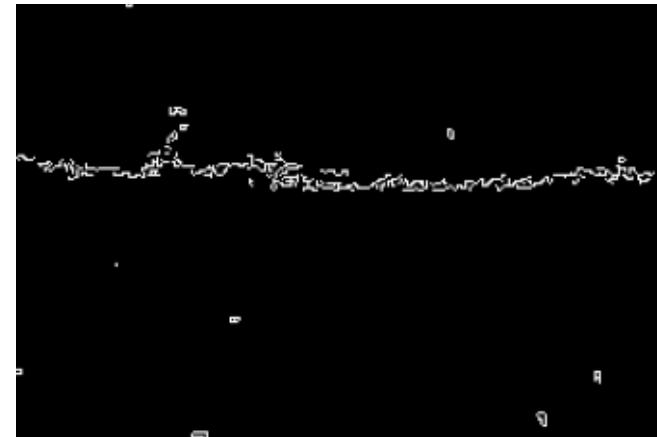
Filtered Image (Adaptive Median Filter)



Edges of Original Image



Edges after Adaptive Median Filter

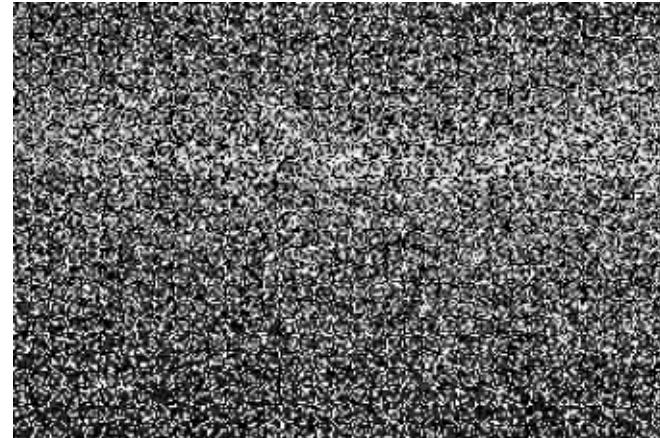


Bilateral Filter - Kernel Size: 3x3  
MSE: 103.14, PSNR: 28.00 dB, FOM: 0.01

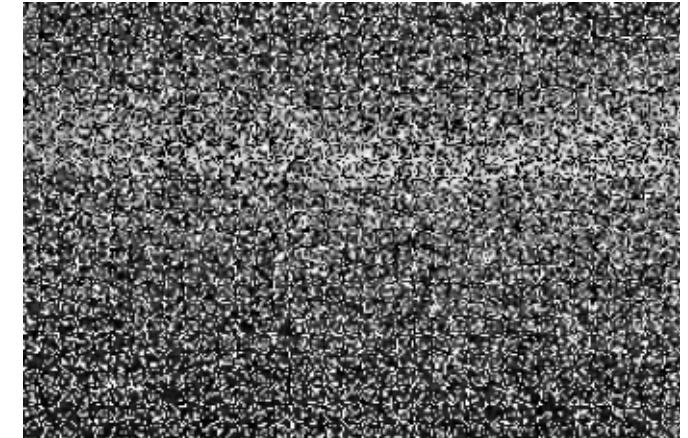
Original Image



Noisy Image



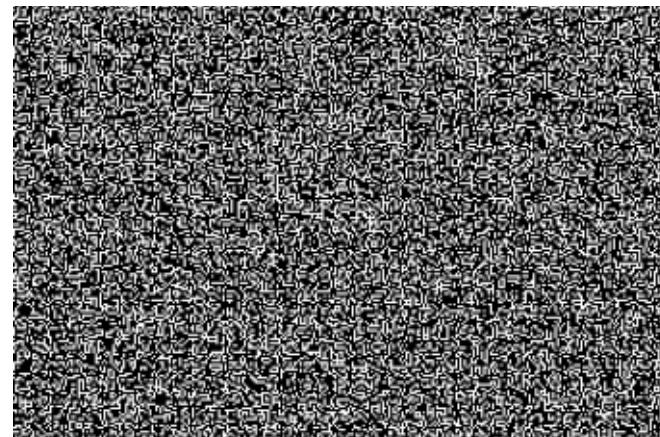
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

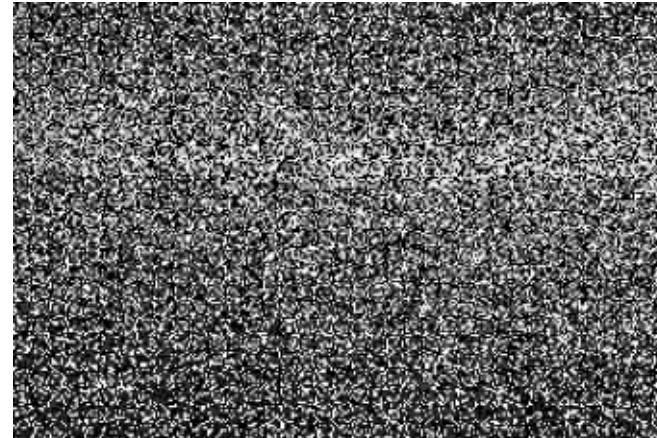


Bilateral Filter - Kernel Size: 9x9  
MSE: 106.72, PSNR: 27.85 dB, FOM: 0.01

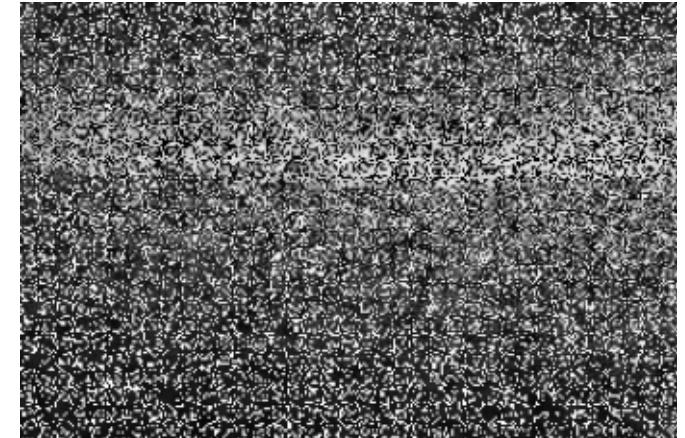
Original Image



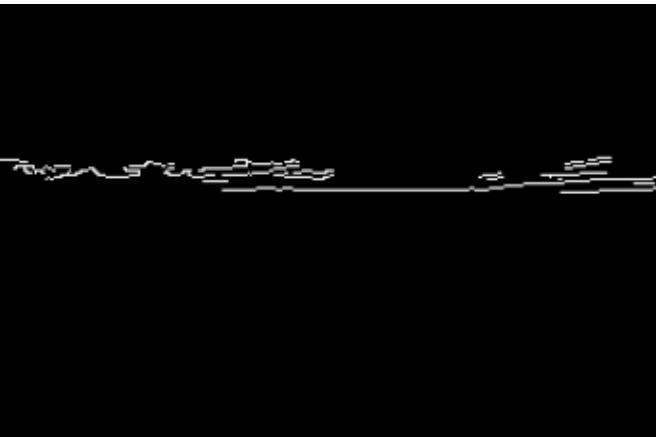
Noisy Image



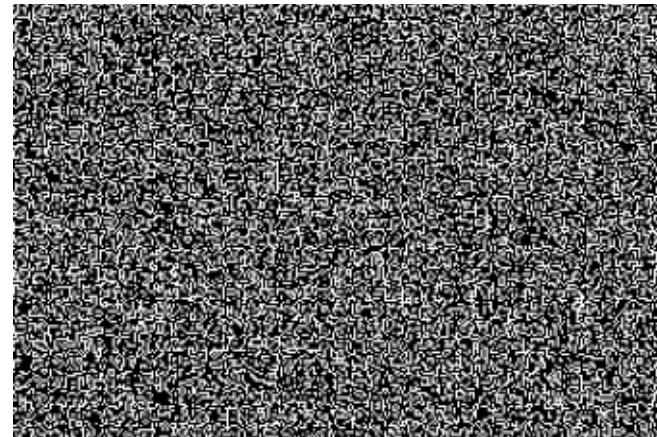
Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

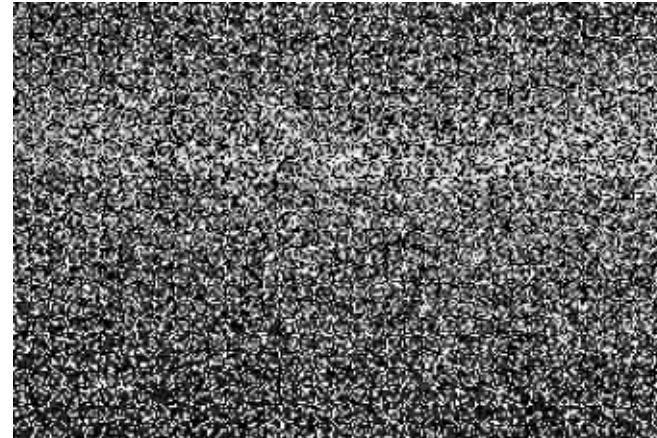


Bilateral Filter - Kernel Size: 15x15  
MSE: 107.65, PSNR: 27.81 dB, FOM: 0.01

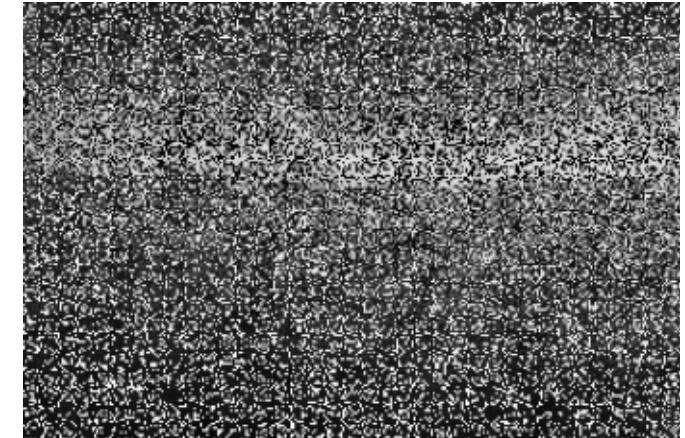
Original Image



Noisy Image



Filtered Image (Bilateral Filter)



Edges of Original Image



Edges after Bilateral Filter

