

Table 1: Signal-to-Noise Ratio (SNR) Values for Various Filters

Image & Filter	Filter Size	SNR (dB)
gn10 box	3	17.72585
gn10 median	3	17.64679
gn10 box	5	14.85610
gn10 median	5	15.98067
gn30 box	3	12.59351
gn30 median	3	11.06853
gn30 box	5	13.28099
gn30 median	5	12.86523
sp10 box	3	6.310540
sp10 median	3	15.07231
sp10 box	5	8.475880
sp10 median	5	15.79948
sp05 box	3	9.441888
sp05 median	3	19.22108
sp05 box	5	11.13132
sp05 median	5	16.33672
gn10 otc	-	13.19292
gn10 cto	-	13.58968
gn30 otc	-	11.17649
gn30 cto	-	11.20102
sp10 otc	-	-2.21646
sp10 cto	-	-2.46925
sp05 otc	-	5.551248
sp05 cto	-	5.259683



Figure 1: gaussian noise 10



(a) box 3×3



(b) box 5×5



(c) close then open



(d) open then close



(e) median 3×3



(f) median 5×5



Figure 2: gaussian noise 30



(a) box 3×3



(b) box 5×5



(c) close then open



(d) open then close



(e) median 3×3



(f) median 5×5



Figure 3: salt and pepper 0.05



(a) box 3×3



(b) box 5×5



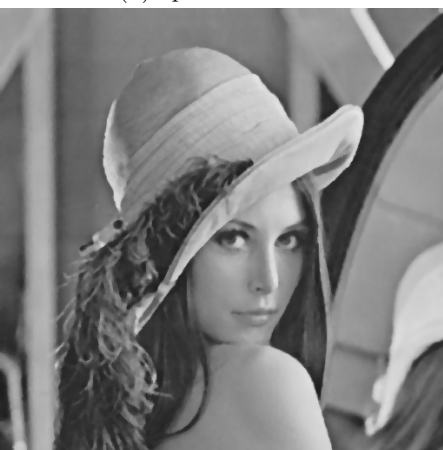
(c) close then open



(d) open then close



(e) median 3×3



(f) median 5×5



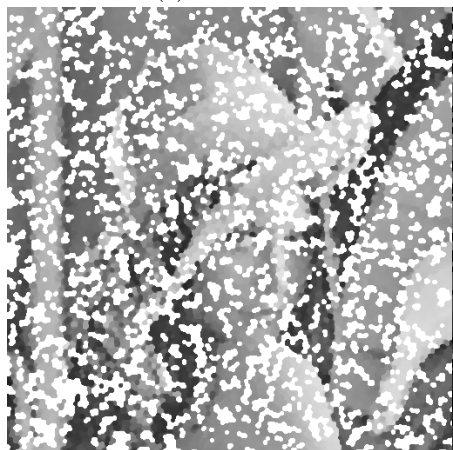
Figure 4: salt and pepper 0.10



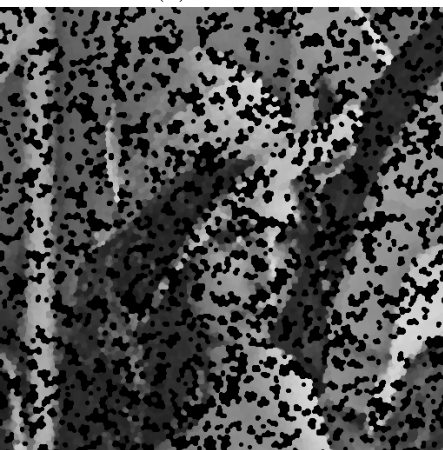
(a) box 3×3



(b) box 5×5



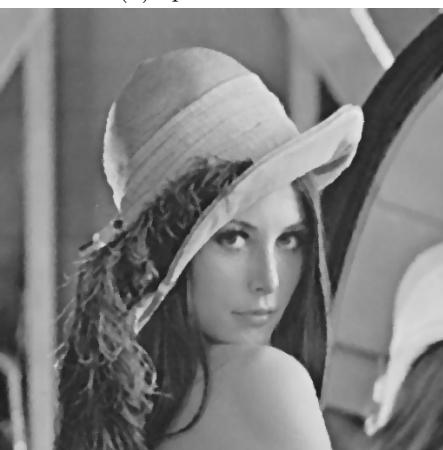
(c) close then open



(d) open then close



(e) median 3×3



(f) median 5×5