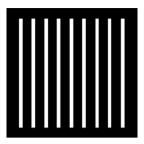
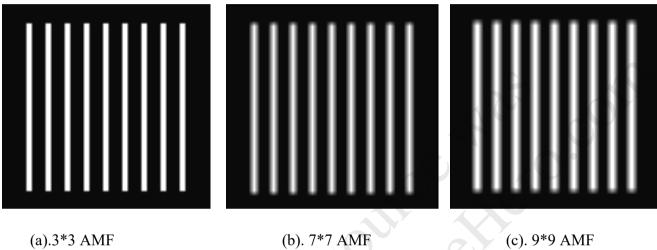
Original image:



5.1: Arithmetic mean filter



After using arithmetic mean filter, the center 5 columns of 3*3 filter and the center 1 column of 7*7 filter will still remain the same color, which has value 240. And pixels outside the bar by (r-1)/2 columns will still have the same color, which has values 10. The rest of the image pixels will have some intermediate

still have the same color, which has values 10. The rest of the image pixels will have some intermediate values and show as grey. For 9*9 filer, the bar will be blur because in the original image the bar is 7 pixels wide, and here all pixels in the bar will be changed to other values, therefore blur will be obvious.

5.2: Geometric mean filter

