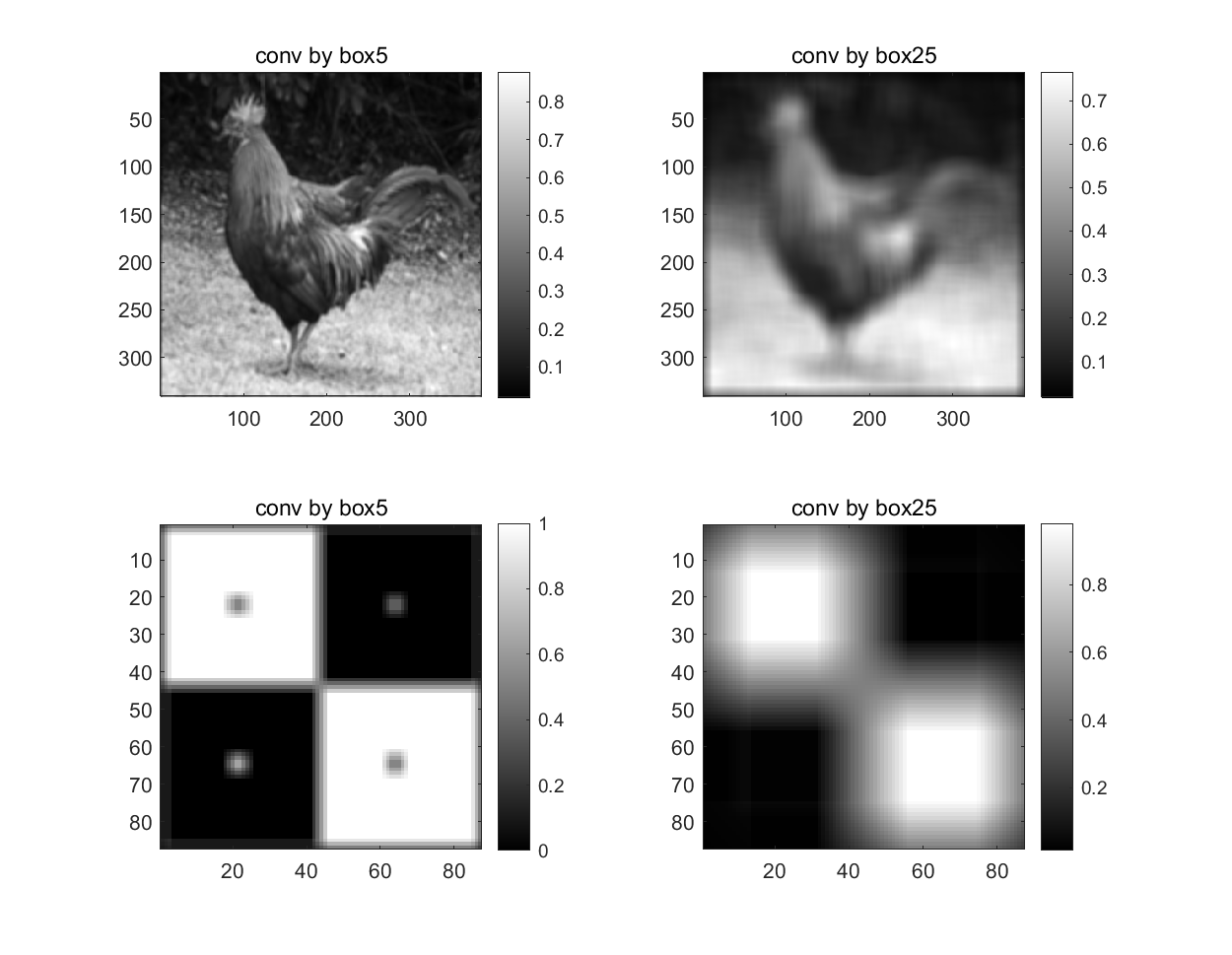
**Low-Level Computer Vision with MATLAB**

3.1.1

Box masks are generated by fspecial(‘average’). Argument-shape is ‘same’ to ensure that all results are the same size with the original picture.



Both rooster and boxes are blurred after being convolved with box masks as box masks use average value with neighbor pixel to replace the real value of each pixel. However, it is clear that picture becomes more blurred convolved with large mask (25×25) than the small one (5×5). It not only can be intuitively seen but also can be proved from the fact that four little squares in boxes are still there in subplot223 but disappear in subplot224. It is because the bigger the size of mask is, more neighbor pixels are involved into average calculation, which will cause more blurred.

1.2.1