

Convolution Practice

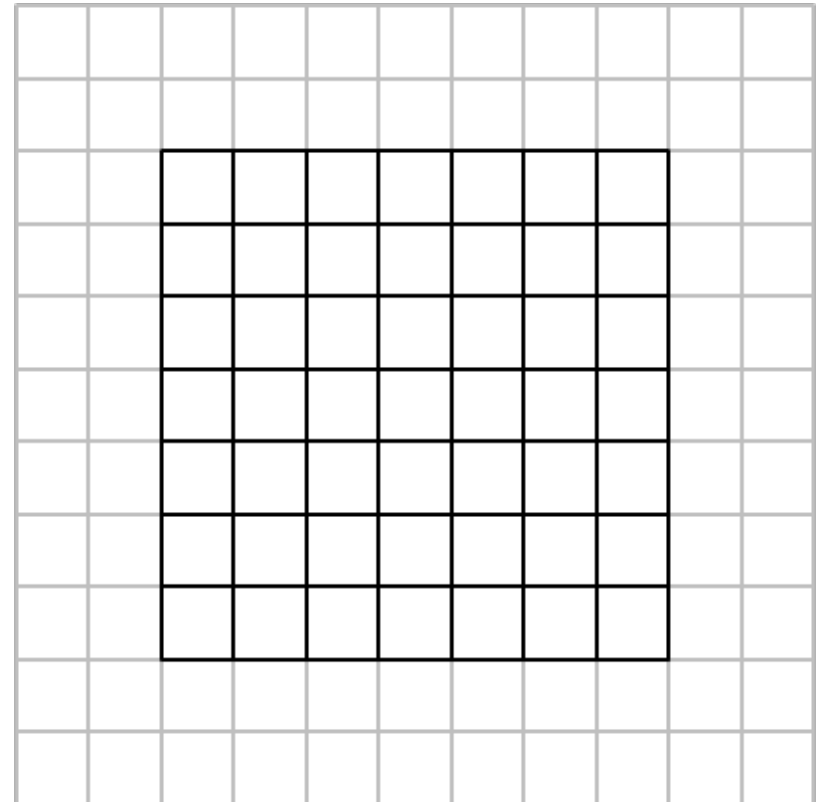
2	2	1	1	1	1	1	8	5
2	2	1	1	1	1	1	8	5
2	2	1	1	1	1	8	5	5
2	1	1	1	1	1	8	5	5
1	1	1	1	1	1	8	4	5
1	1	1	1	1	8	4	4	4
1	1	1	1	8	4	4	4	4
1	1	1	1	8	4	4	3	3
1	1	1	1	8	4	4	4	3

Image

0	1	0
1	0	-1
0	-1	0

Kernel
Weights

Compute the correlation over the valid region (dark squares) for the image and kernel shown at left. The compute the convolution for the border region (gray squares)



The kernel shown is used for Roberts edge detection. Where are the edges in this image?