

- Consider a matrix A with size 4x4
$$\begin{bmatrix} 1 & 2 & 2 & 1 \\ 1 & 1 & 0 & 3 \\ 2 & 4 & 1 & 5 \\ 2 & 1 & 2 & 0 \end{bmatrix}$$

- Consider the elements in the window 3x3
$$\begin{bmatrix} 1 & 2 & 2 \\ 1 & 1 & 0 \\ 2 & 4 & 1 \end{bmatrix}$$

- Find the x-direction derivative: Subtract the first row from the Third row using the mask.

$$G_x = (z_7 + 2z_8 + z_9) - (z_1 + 2z_2 + z_3)$$

$$G_x(1,1) = (2 + (2 * 4) + 1) - (1 + (2 * 2) + 2) = 4$$

- Find the y-direction derivative: Subtract the first column from the Third column using the mask.

$$G_y = (z_3 + 2z_6 + z_9) - (z_1 + 2z_4 + z_7)$$

$$G_y(1,1) = (2 + (2 * 0) + 1) - (1 + (2 * 1) + 2) = -2$$

- Find the Gradient:

$$G_x^2 = 16, \quad G_y^2 = 4$$

$$\Delta f = [16 + 4]^{1/2} = (20)^{1/2}, \text{ ie. } f(1,1) = 4.4721.$$

The procedure is done for the whole image matrix.

Matlab Code For Sobel

RJ Shavelson



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