

Fundamentals of Computer Vision
Fall – 2016 (Section B)
Quiz # 2

Which of the edge detection operator is isotropic?

Laplacian

Operator (provide the mask):

Type 1	Type 2	Type 3
$\begin{bmatrix} 0 & -1 & 0 \\ -1 & 4 & -1 \\ 0 & -1 & 0 \end{bmatrix}$	$\begin{bmatrix} -2 & 1 & -2 \\ 1 & 4 & 1 \\ -2 & 1 & -2 \end{bmatrix}$	$\begin{bmatrix} -1 & -1 & -1 \\ -1 & 8 & -1 \\ -1 & -1 & -1 \end{bmatrix}$

Any one of these 3 types is correct

What do you mean by isotropic?

It provides edges in all directions.
