Harris Corner Detector in OpenCV

OpenCV has the function cv2.cornerHarris()

Its arguments are:

- •img Input image, it should be grayscale and float32 type.
- •blockSize It is the size of neighbourhood considered for corner detection
- •ksize Aperture parameter of Sobel derivative used.
- •k Harris detector free parameter in the equation.

Morphological Transformations

- Erosion
- Dilation
- Opening
- Closing

Morphological Transformations

- Removing noise
- Isolation of individual elements and joining disparate elements in an image.
- Finding of intensity bumps or holes in an image

Sobel

```
•src – input image.
```

•dst – output image of the same size and the same number of channels as src.

•ddepth –

output image depth; the following combinations of src.depth() and ddepth are supported:

```
src.depth() = CV_8U, ddepth = -1/CV_16S/CV_32F/CV_64F
```

when ddepth=-1, the destination image will have the same depth as the source; in the case of 8-bit input images it will result in

- •xorder order of the derivative x.
- •yorder order of the derivative y.
- •ksize size of the extended Sobel kernel; it must be 1, 3, 5, or 7.