Spatial Operations

Single Pixel Operations Alter the intensity of its pixels individually.

S=TCZ) 9 operation

Geometric Transformations Modify spatial arrangement ef images. Consists of following

1. Spatial transformation of coordinates exil

2. Intensity interpolation that assigns intensity values to Spatially transformed pixels

Transformation coordinates can be expressed as:

ex/ (x', y') = (x/2, y/2) -> shrinks the original image by half.

geometric

Affine Transformations

- -> Scaling
- -> Translation
- -> Rotation

-> Sheer

ext Identity -> [0,00]

Scaling -> Cx 000]

Rotation -> [cost -sing o

Neighborhood Operations Sky > set of coordinates of a none

exil Compute the average value of the pixels in the input image with coordinates in the set Sxy aBurs

generated row & coordinate and of pixels in