





Spatial Domain Filter

author : 5140379068

Instruction

-
-
-

Result Analysis

-  5x5 11x11  "
-  5x5 11x11
-  sigma = 0.5 5
sigma sigma = 3
sigma

File Announcement

- tool.py
- spatial_domain.py
- median5.png 5x5
- median11.png 11x11
- mean5.png 5x5
- mean11.png 11x11
- gauss0.5_5.png 5x5 sigma=0.5
- gauss3_5.png 5x5 sigma=3
- gauss3_11.png 11x11 sigma=3
- filters.png

Python Environment

```
python3.5
pip install Pillow
```

Code Description

- tool.py

```

class Tool:

    @classmethod
    def bytesToList(cls, b_list, width, height):
        ...

        bytes      2D list
        ...

    @classmethod
    def doMedian(cls, source, side):
        ...

        source(2D list)      side
        ...

    @classmethod
    def dofilter(cls, source, filter):
        ...

        source(2D list)  filter(2D list)      filter
        ...

    @classmethod
    def genMean(cls, side = 5):
        ...

        side      (2D list)
        ...

    @classmethod
    def genGauss(cls, side = 5, sigma = 1):
        ...

        side      sigma      (2D list)
        ...

```

- spatial_domain.py

```
#
```