

# Deep Restore

## Inpainting Comparision

October 22, 2018

## Description

- ▶ Comparison of 4 CNN approaches
- ▶ input: 3 color channels for previous, current, next
- ▶ for the adding CNNs once with and without mask
- ▶ relu output activation function
- ▶ for the adding CNNs linear output

# Test - Ex1



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add

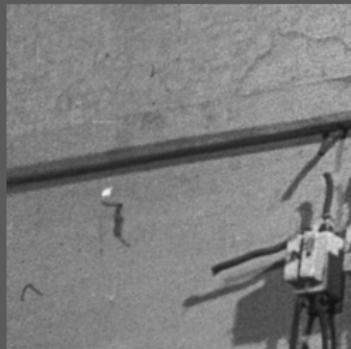


(c) densenet



(d) Unet

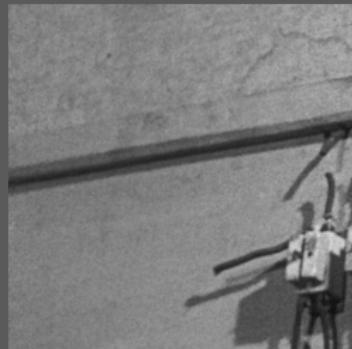
## Test - Ex2



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add



(c) densenet



(d) Unet

# Test - Ex3



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add mask



(c) densenet

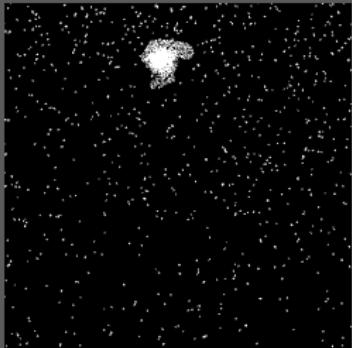


(d) Unet

# Test - Ex4



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add



(c) densenet



(d) Unet

# Test - Ex5



(a) Input



(b) Mask



(c) GT Output



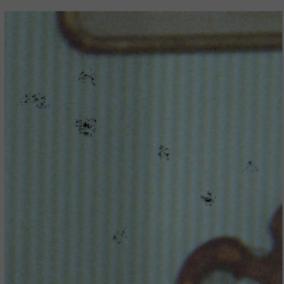
(a) densenet add  
mask



(b) densenet add  
mask



(c) densenet

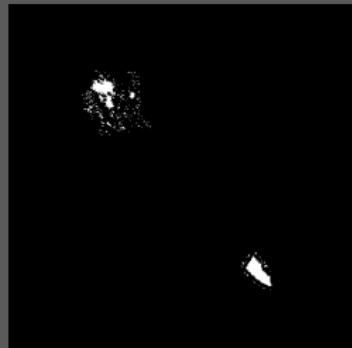


(d) Unet

# Test - Ex6



(a) Input



(b) Mask



(c) GT Output



(a) densenet add  
mask



(b) densenet add  
mask



(c) densenet



(d) Unet

# Test - Ex7



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add mask



(c) densenet

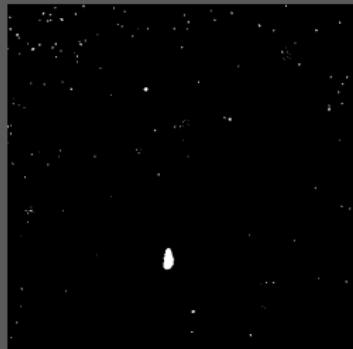


(d) Unet

# Test - Ex8



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add mask



(c) densenet



(d) Unet

# Test - Ex9



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add



(c) densenet



(d) Unet

# Test - Ex10



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add



(c) densenet

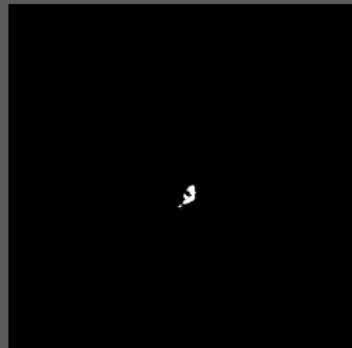


(d) Unet

# Test - Ex11



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add mask



(c) densenet

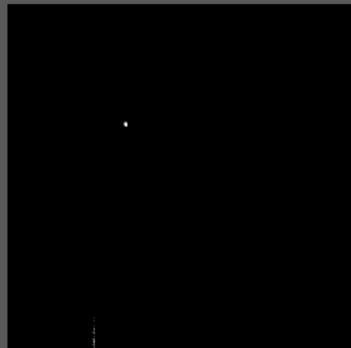


(d) Unet

# Test - Ex12



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add



(c) densenet



(d) Unet

# Test - Ex13



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(c) densenet

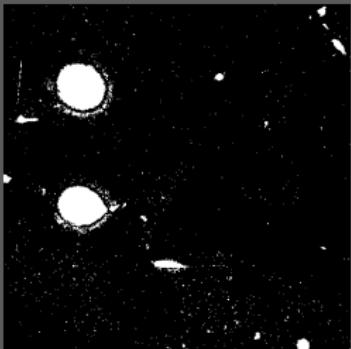


(d) Unet

# Test - Ex14



(a) Input



(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add mask



(c) densenet

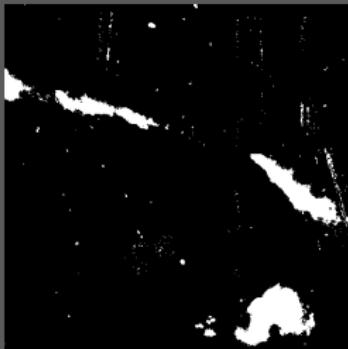


(d) Unet

# Test - Ex15



(a) Input



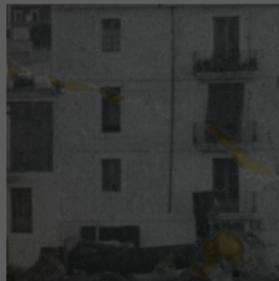
(b) Mask



(c) GT Output



(a) densenet add mask



(b) densenet add



(c) densenet



(d) Unet