

Final Project Presentation

4x Super Resolution

Group 5

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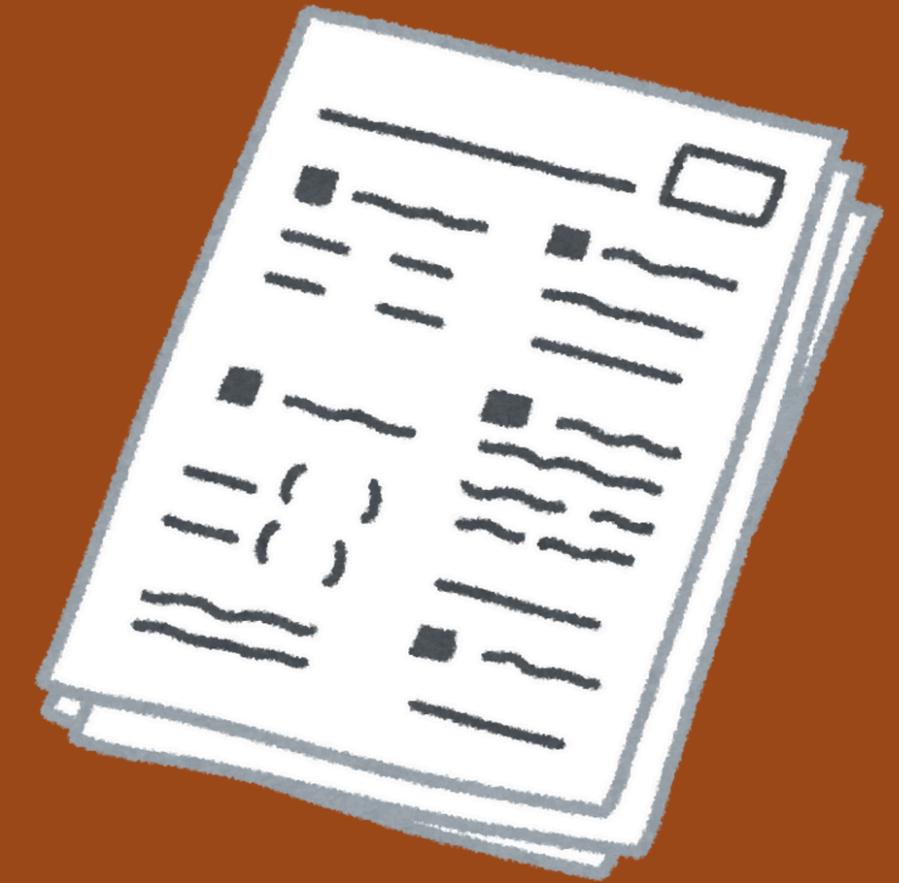
110550109 陳芳靖

Paper Selection



[2108.10257] SwinIR: Image Restoration Using Swin Transformer

- 利用淺層殘差塊提取低頻訊息(圖像大致輪廓)
- 對於細節那些深層特徵我們用Swin transformer塊(RSTB)來提取。
- 然後將這些淺層和深層特徵結合來重建高畫質圖像。



Preprocess



Denoise

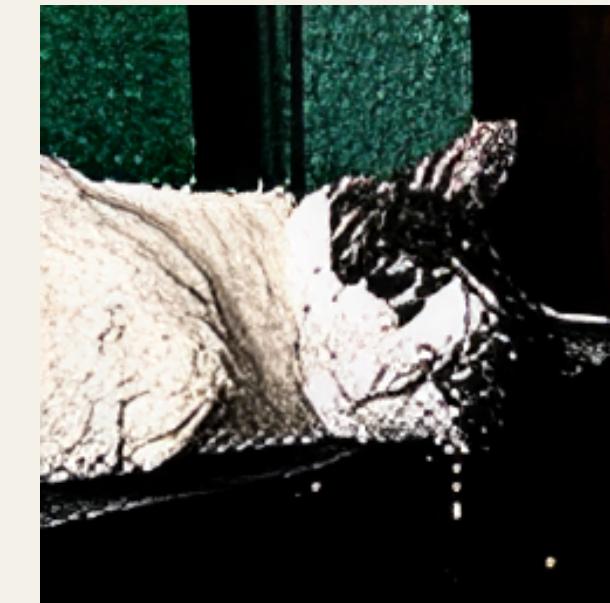
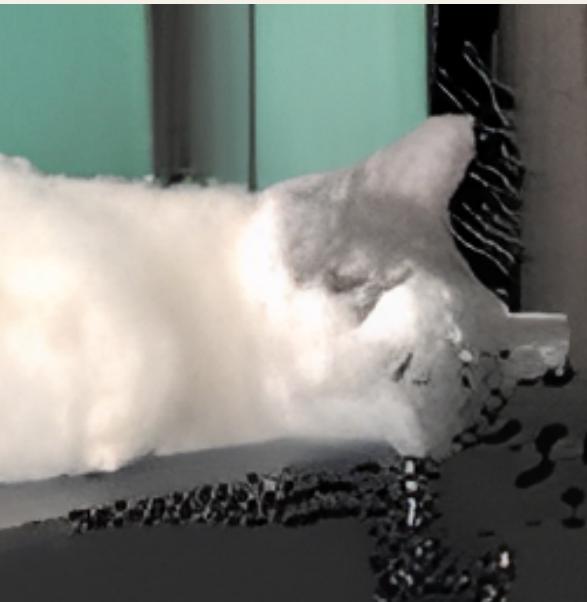
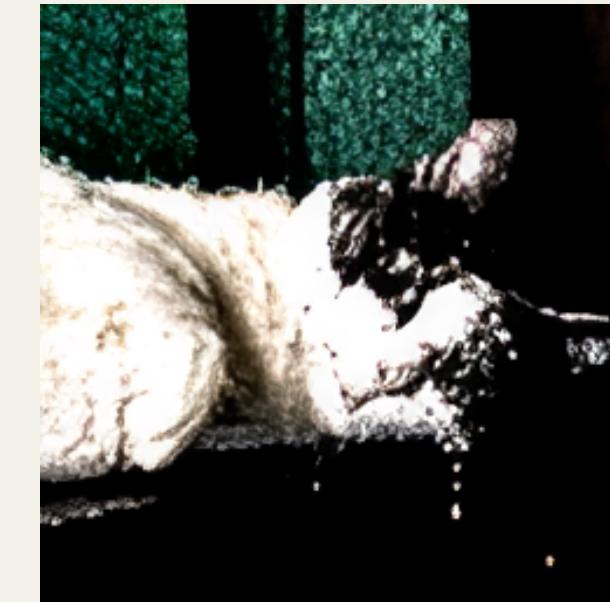


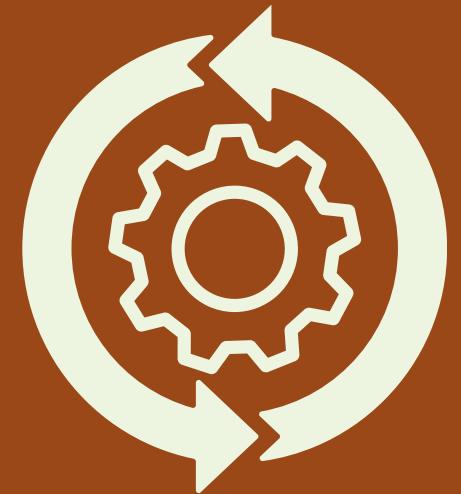
Image enhancement



Histogram equalization



Detail enhancement



Post-Process.



Gaussian blur



Unsharp masking



Creativity



4x4x then downsample
by bicubic



+ Unsharp
masking



Creativity



4x4x4x then downsample
by bicubic



+ Unsharp
masking



THANKS

