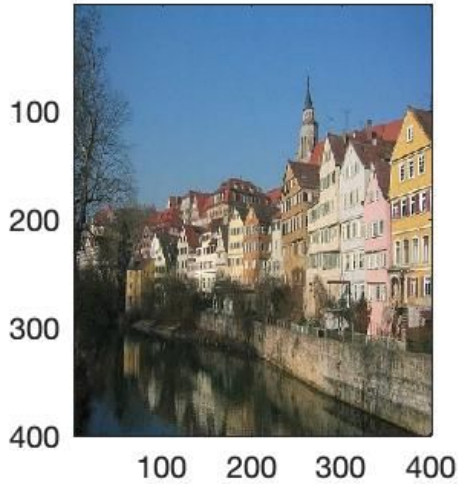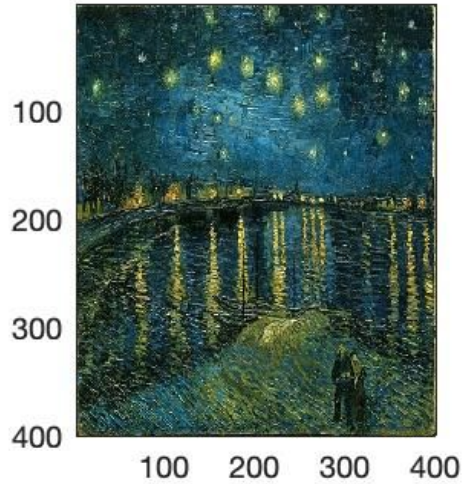# CS 663 - Project Report

- Syamantak Kumar 16D070025
- Kartik Khandelwal 160070025
- Sushil Khyalia 160050035
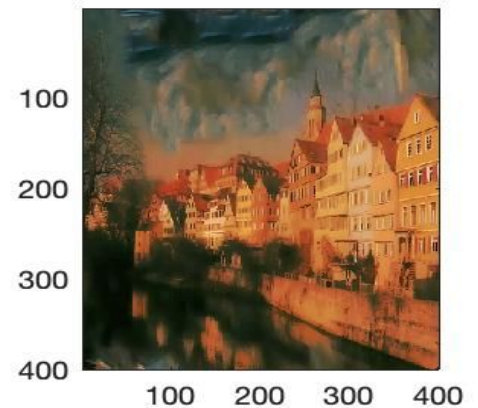
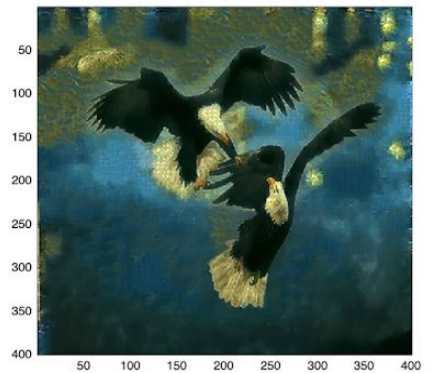| CONTENT IMAGE | STYLE IMAGE | STYLE-TRANSFER |
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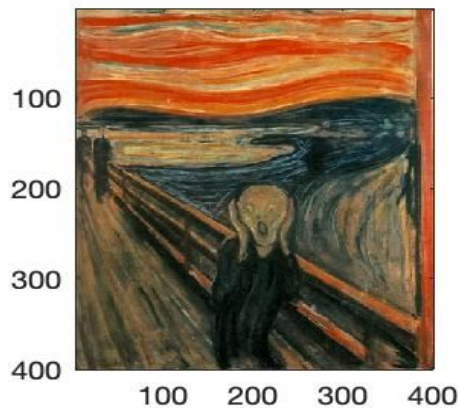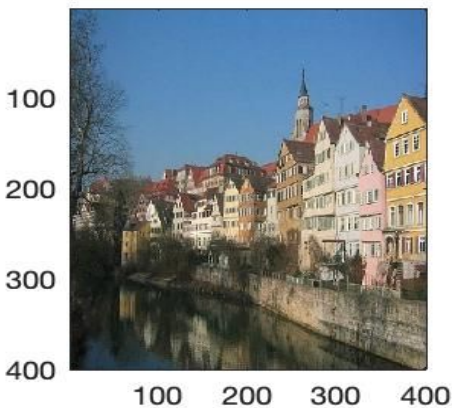
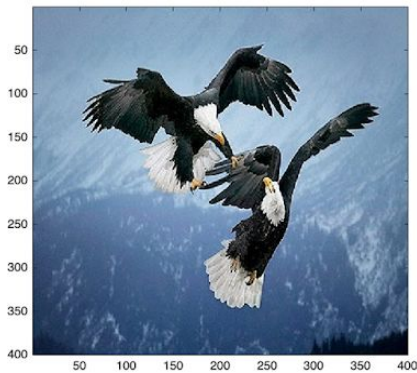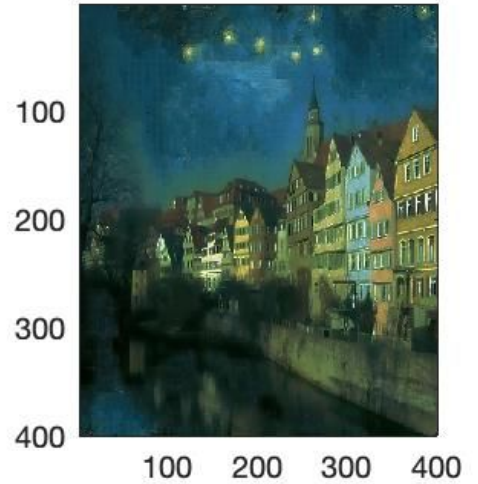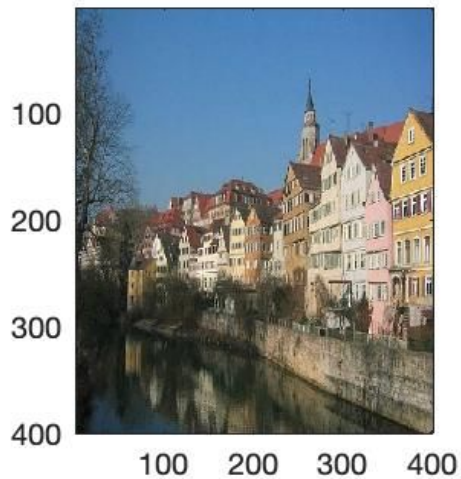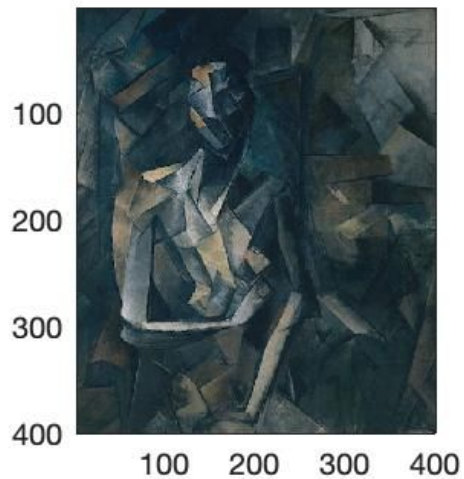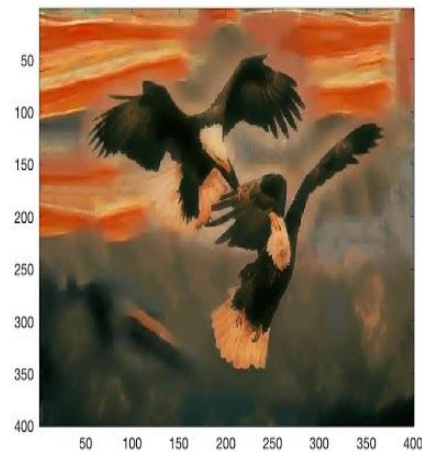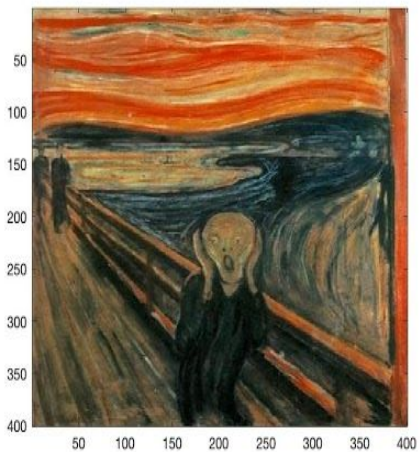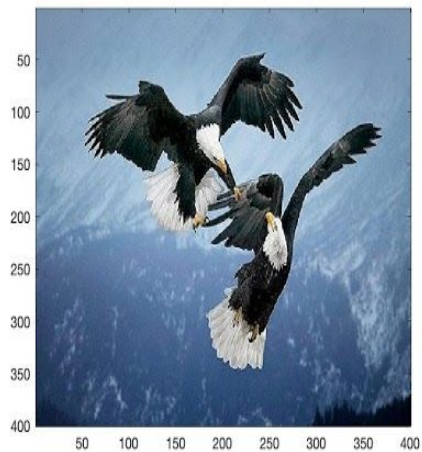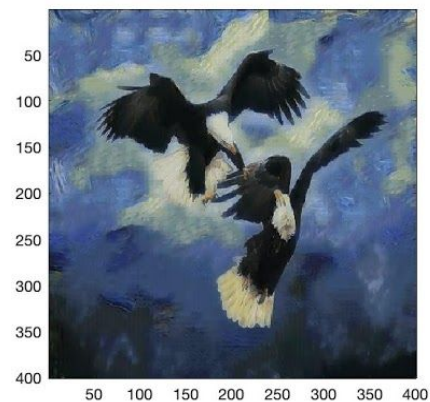**CONTENT IMAGE**          **STYLE IMAGE**          **STYLE-TRANSFER**
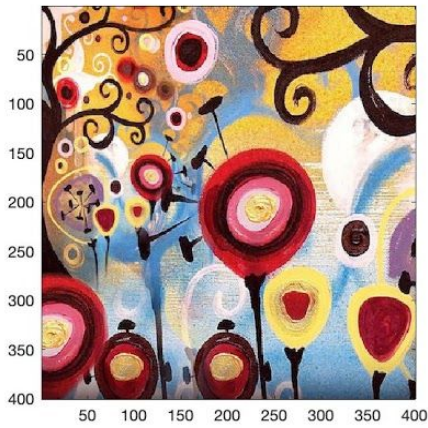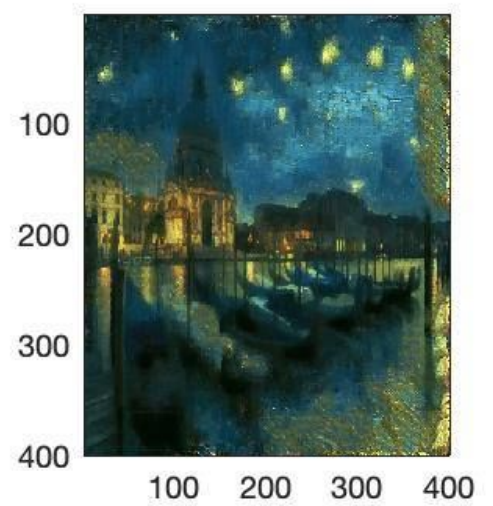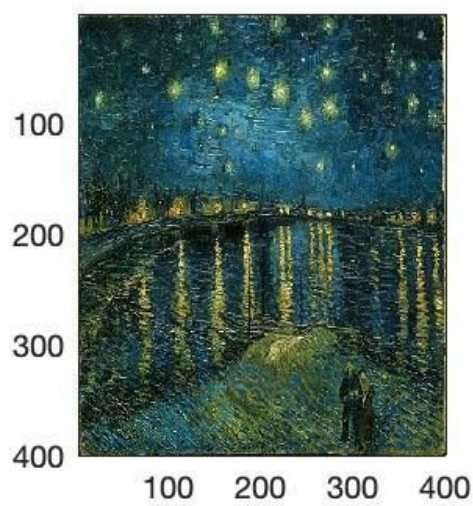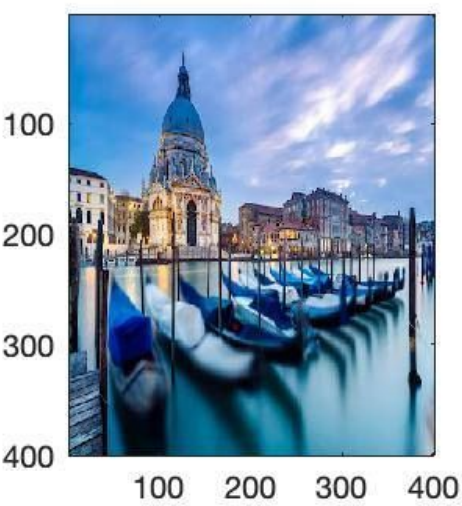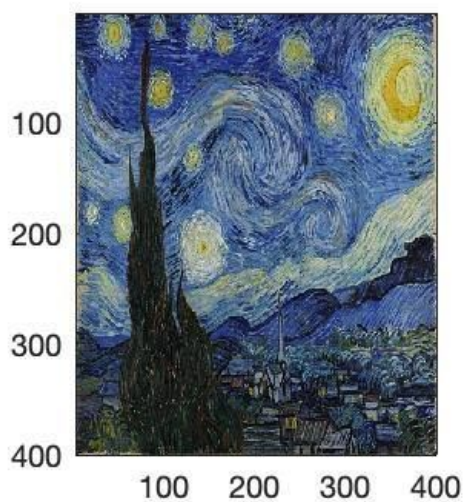
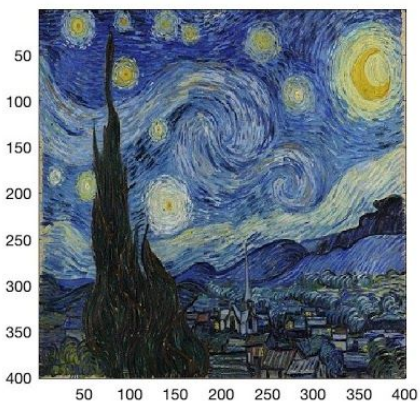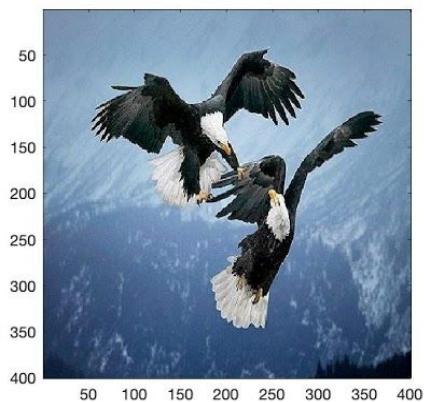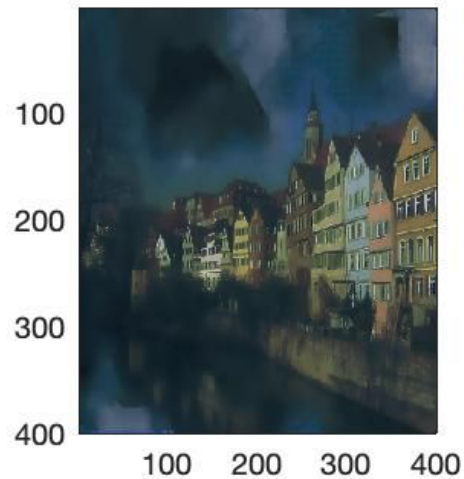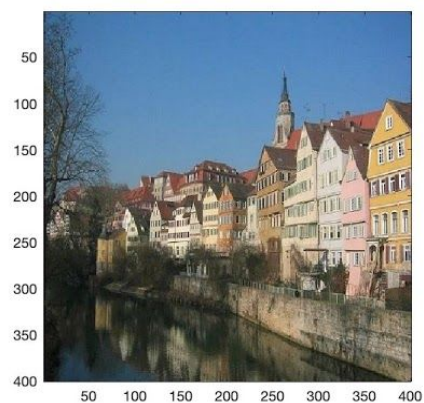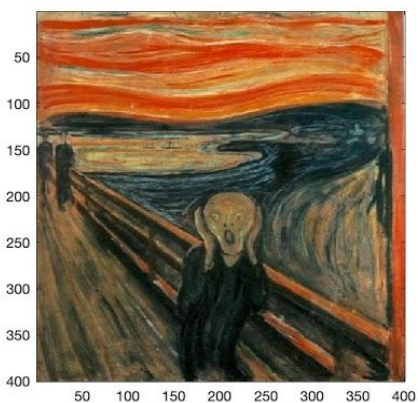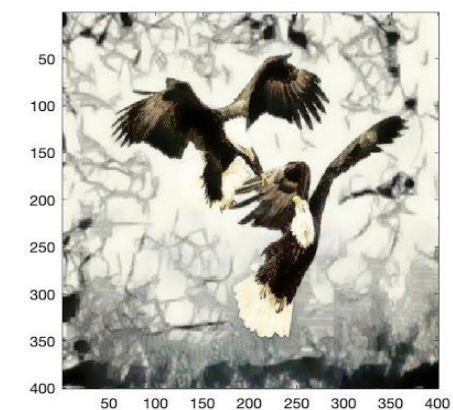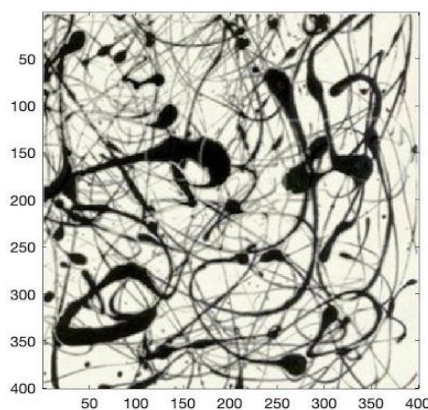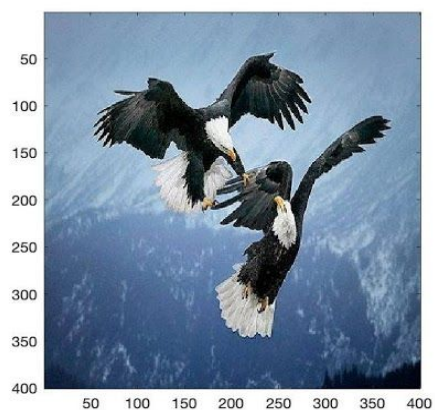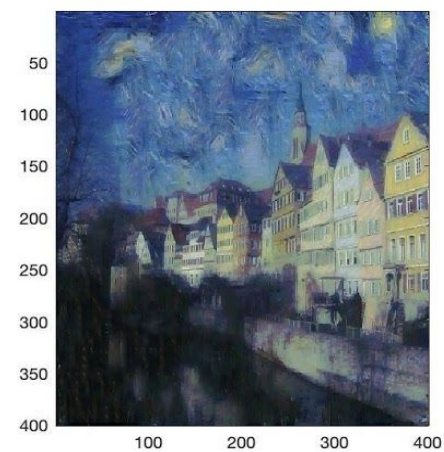| CONTENT IMAGE | STYLE IMAGE | STYLE-TRANSFER |
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| CONTENT IMAGE | STYLE IMAGE | STYLE-TRANSFER |
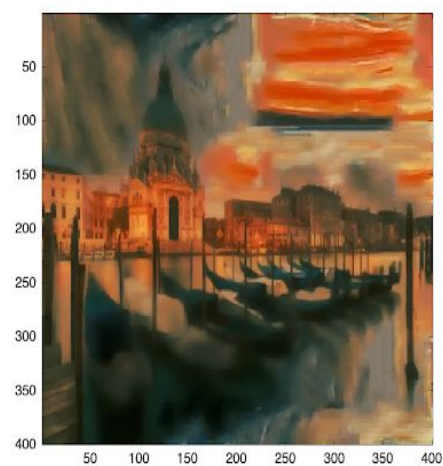
**Parameter Tuning**

These parameters can be tuned so as to produce better results which seem more appealing to the user:
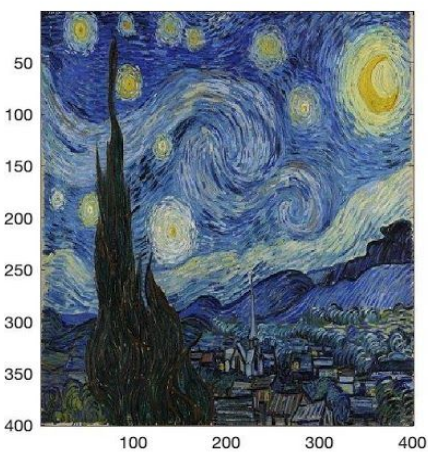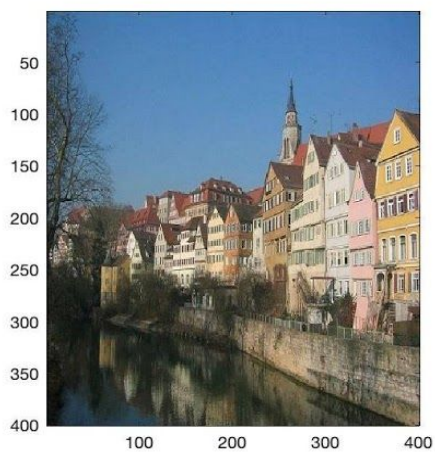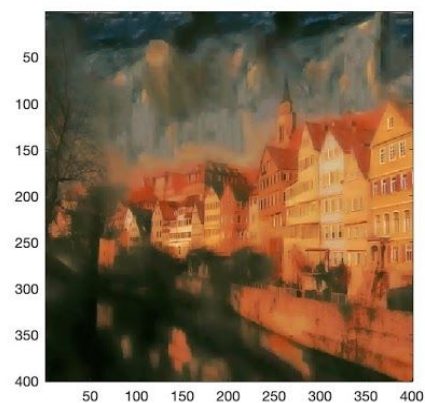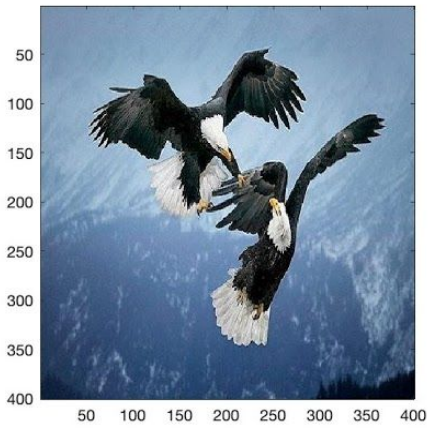
- Number of resolution layers
    - This is the level of layers present in the gaussian pyramid
- Patch Sizes = [36;22;13;9]
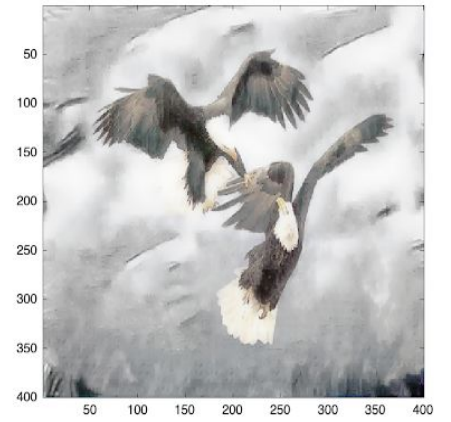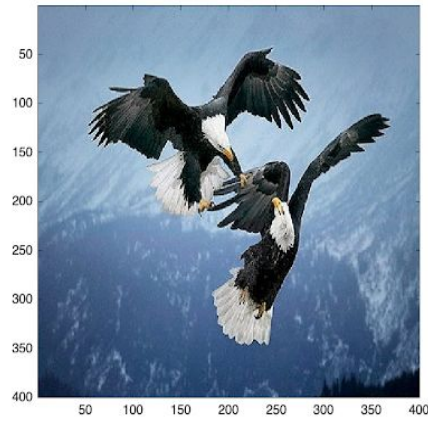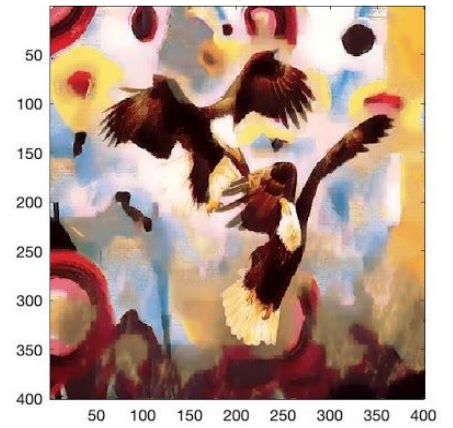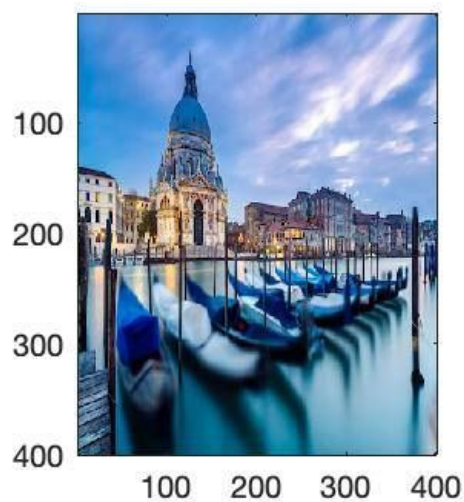    - The different patch sizes considered for patch-matching
- Sub_sampling_gaps = [28;18;8;5]
    - The different gaps between the sampled patches
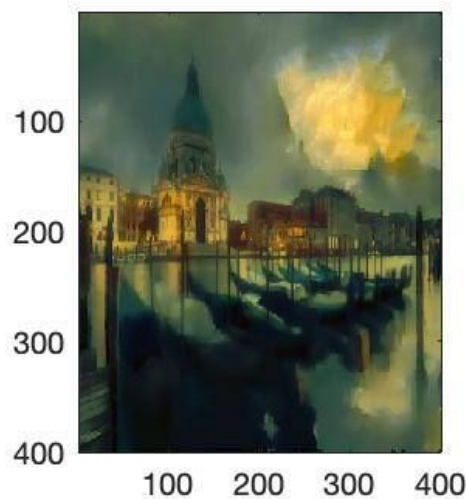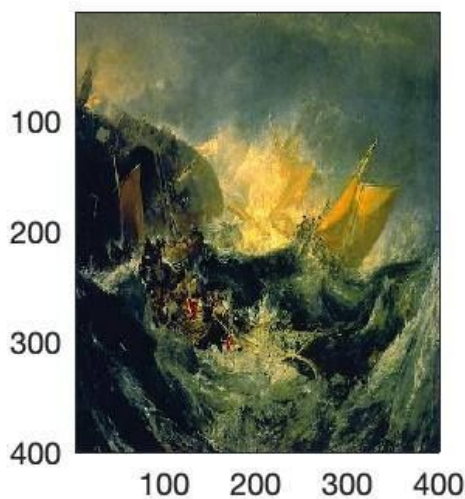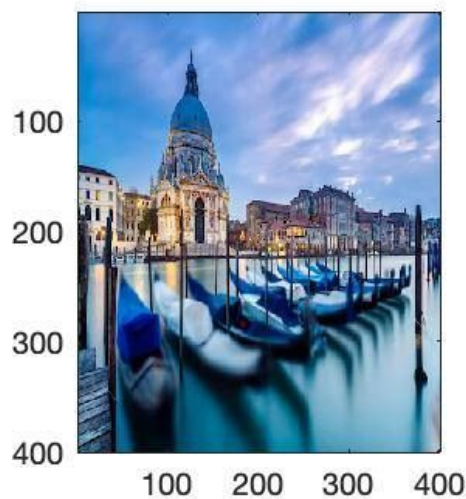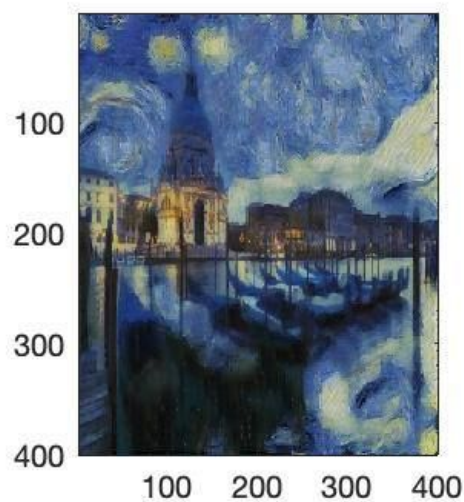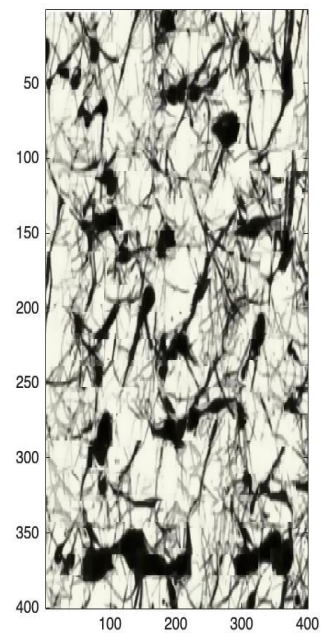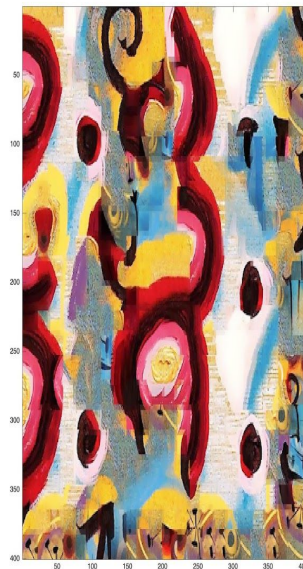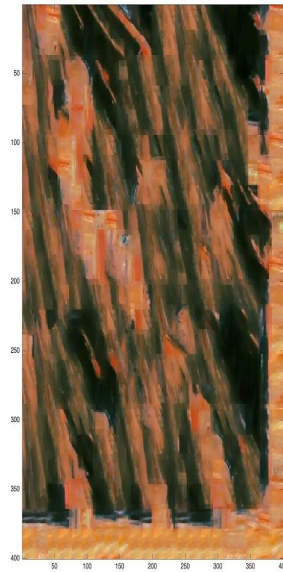- Number of IRLS iterations = 5
    - Number of iterations of the IRLS (Iterated Reweighted Least Squares) Algorithm
- Number of Update Iterations per patch-size = 3
- Robust statistics value to use = 0.8

# Creating Hallucination Images : Texture Synthesis

# Failure Cases