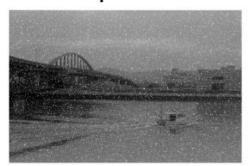
## Week4: image mining2

- 1. Install Opency, python, jupyter notebook (or install winpython)
- 2. Write the functions to implement log, power-law and negative transformations.
- 3. Write the functions to add Gaussian, impulse and uniform noise on the image
- 4. Image de-noising

Original



with Impulse Noise



Median Filter



Note: use the <a href="week2\_test1.jpg">week2\_test1.jpg</a> and <a href="week2\_test1.jpg">week2\_test1.jpg</a> provided in the folder as an example

If you do not have python or opency installed in your computer, try:

- 1, Download winpython https://github.com/winpython/winpython/releases/download/5.3.20221233/Winpython64-3.11.1.0.exe
- 2, Install opency
  Pip install opency-python
- 3, Run jupyter notebook
- 4, libraries needed

import numpy as np import cv2 as cv import math import matplotlib.pyplot as plt