

Visión Artificial

No. de Practica: 5

Título: Umbrales

Nombre: Cesar Eduardo Campos Virgen

Registro: 22110654

6°G

19-mayo-2025

Objetivo:

Utilizar las funciones de umbrales para la recuperación de información. Threshold1 binary, b_inv, Trunc, To Zero, Tz_inv, Mean, Gaus, Otsu.

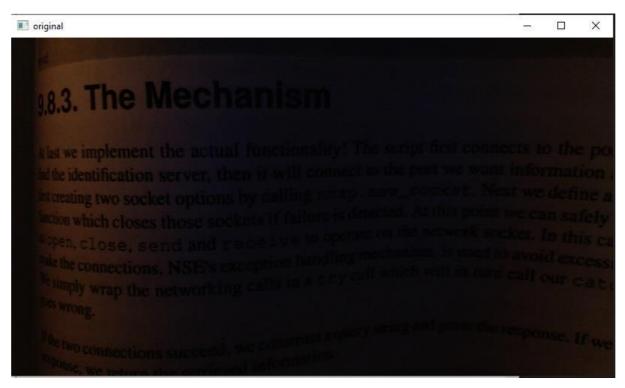
Código:

```
import numpy
import matplotlib
import cv2
img = cv2.imread('bookpage.jpg')
retval, threshold = cv2.threshold(img, 12, 255, cv2.THRESH_BINARY)
grayscaled = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
retval2, threshold2 = cv2.threshold(grayscaled, 12, 255, cv2.THRESH_BINARY)
                      cv2.adaptiveThreshold(grayscaled,
                                                               255,
                                                                           cv2.
ADAPTIVE_THRESH_GAUSSIAN_C, cv2.THRESH_BINARY, 115, 1)
retval3,
                                 cv2.threshold(grayscaled,
                                                                125,
                                                                           255,
cv2.THRESH_BINARY+cv2.THRESH_OTSU)
cv2.imshow('original',img)
cv2.imshow('threshold',threshold)
cv2.imshow('threshold2',threshold2)
cv2.imshow('gaus',gaus)
cv2.imshow('otsu',otsu)
cv2.waitKev(0)
cv2.destroyAllWindows()
```

Comentarios:

Gracias a esta práctica podemos recuperar información a través de los umbrales, en este caso tenemos una imagen donde la información de este no es tan visible por lo que no se logra distinguir bien, entonces a través de estas funciones es posible aclarar el formato de la imagen para distinguir un poco mejor la información de esta.

Resultados:



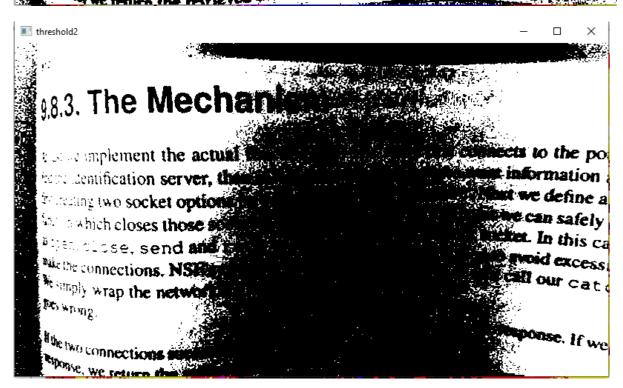


18.3. The Mechanism

gaus

lks we implement the actual functionality! The script first connects to the politic identification server, then it will connect to the port we want information in treating two socket options by calling nmap. new_socket. Next we define a being which closes those sockets if failure is detected. At this point we can safely sopen, close, send and receive to operate on the network socket. In this can take the connections. NSE's exception handling mechanism, is used to avoid excess that the connections. NSE's exception handling mechanism, is used to avoid excess that the connections of the networking calls in a try call which will in their call our cat.

the two connections succeed, we construct a query saving and passe the response. If the



1/8.3. The Mechanism Was we implement the actual functionality! The script first connects to the positive identification server, then it will connect to the poin we were information for reating two socket options by catting map, new socket, black we define a leasure which closes those sockets if failure is detected. At this point we can safely appear, close, send and receive to eparate on the new of the failure in this ca

threshold

with the connections. NSE's exception with the connections of the connection of the con

Connections: The Connection of the Connection of