Visión Artificial

No. de Practica: *5*
Título: *Umbrales*
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6°G

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Objetivo:

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

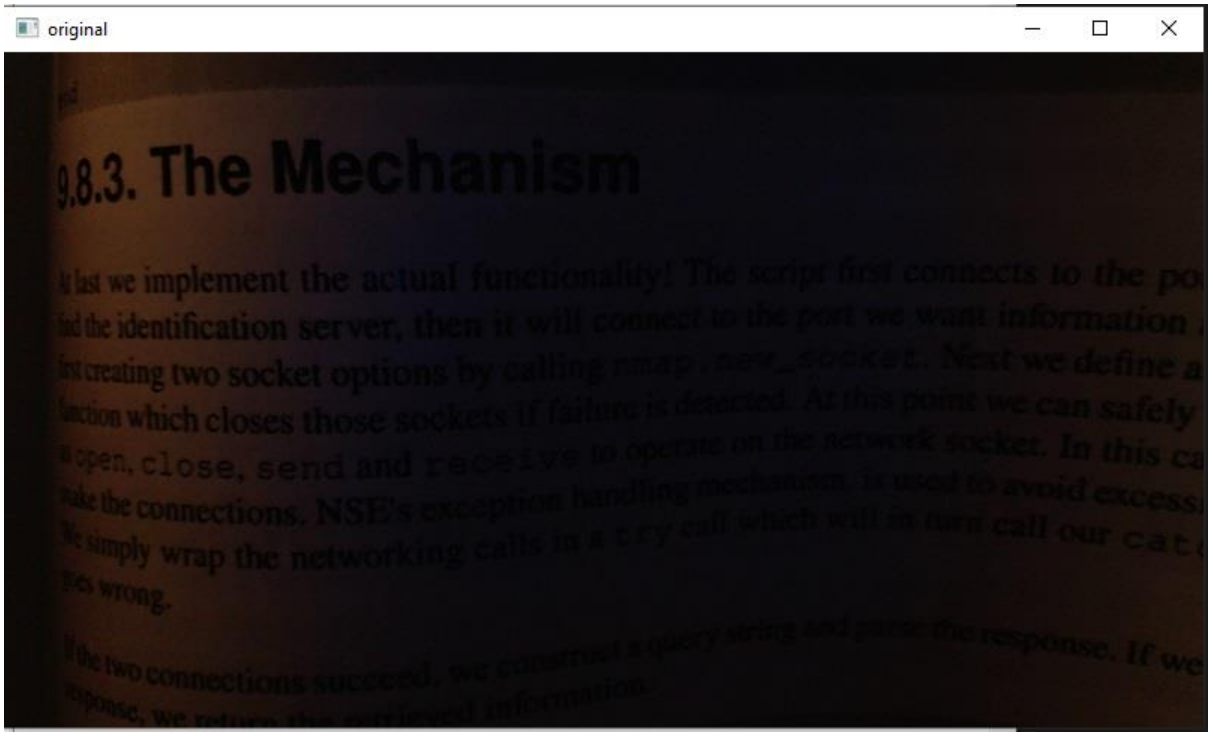
Código:

```
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)
gaus = cv2.adaptiveThreshold(grayscaled, 255, cv2.
ADAPTIVE_THRESH_GAUSSIAN_C, cv2.THRESH_BINARY, 115, 1)
retval3, otsu = 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.waitKey(0)
cv2.destroyAllWindows()
```

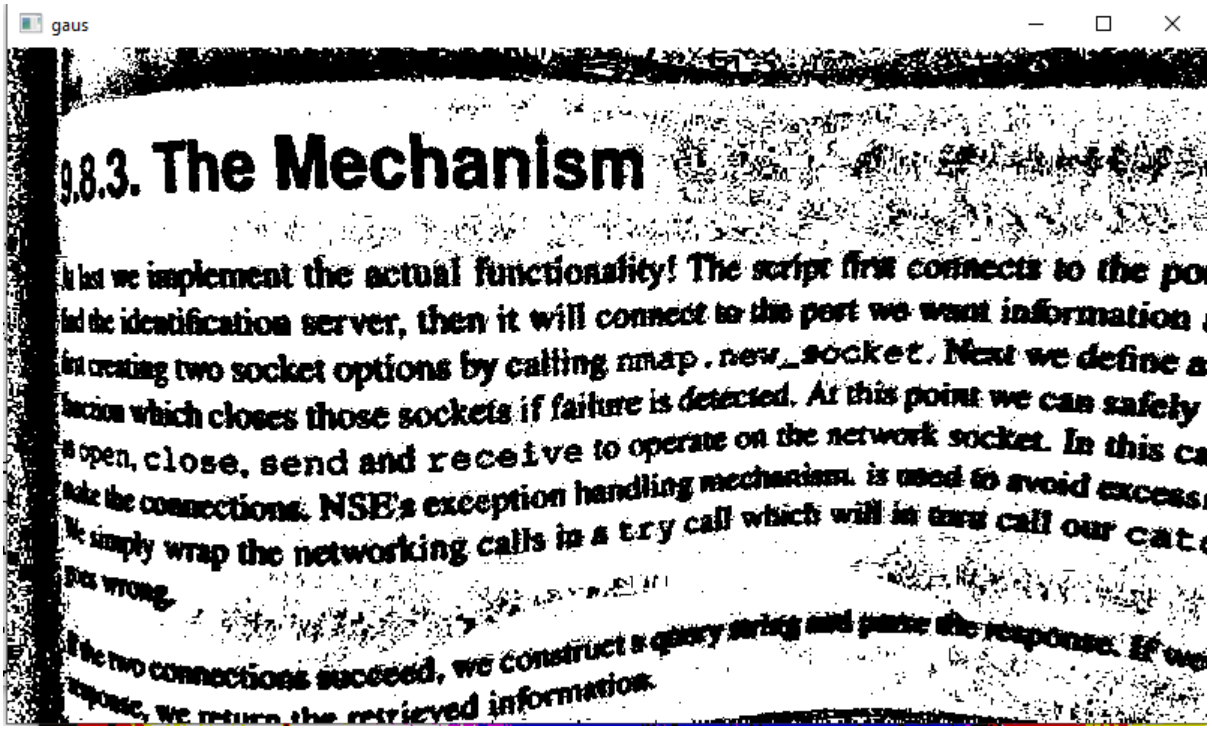
Comentarios:

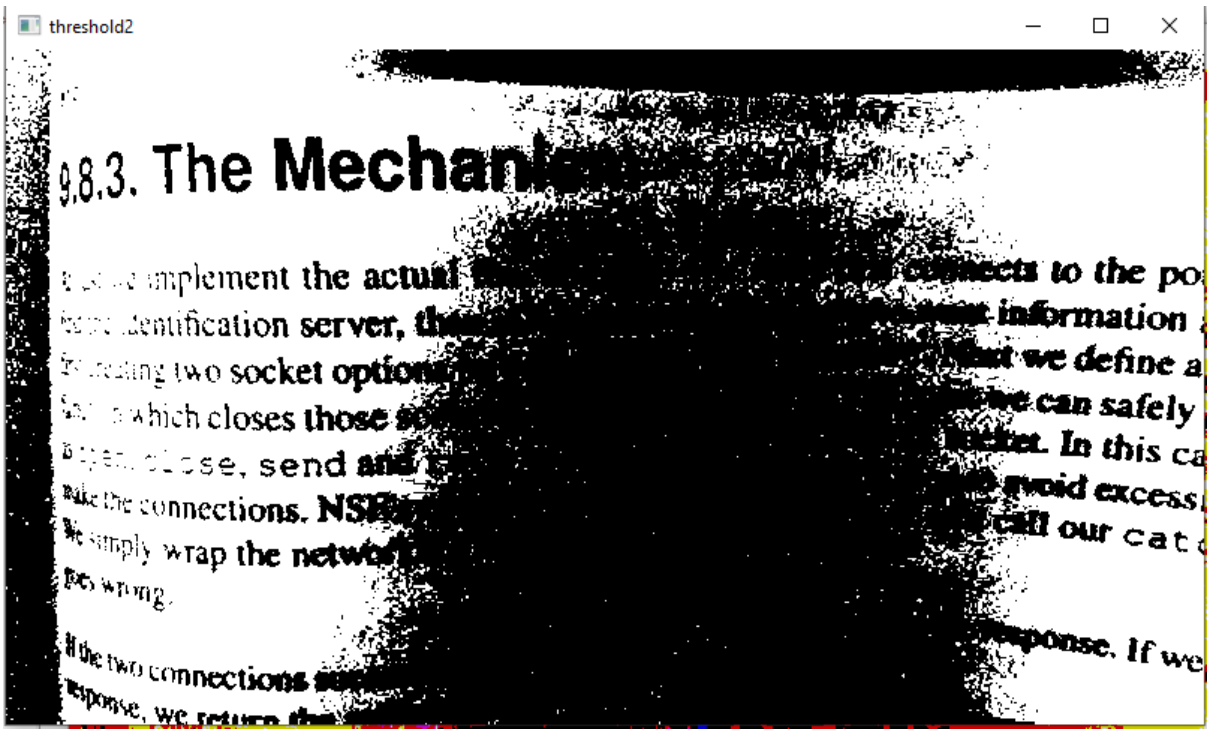
A través de los Umbrales es posible recuperar información, en este caso tenemos una imagen donde la información de este no es tan visible por lo que no se logra distinguir bien, entonces a través de estas funciones es posible aclarar el formato de la imagen para distinguir un poco mejor la información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

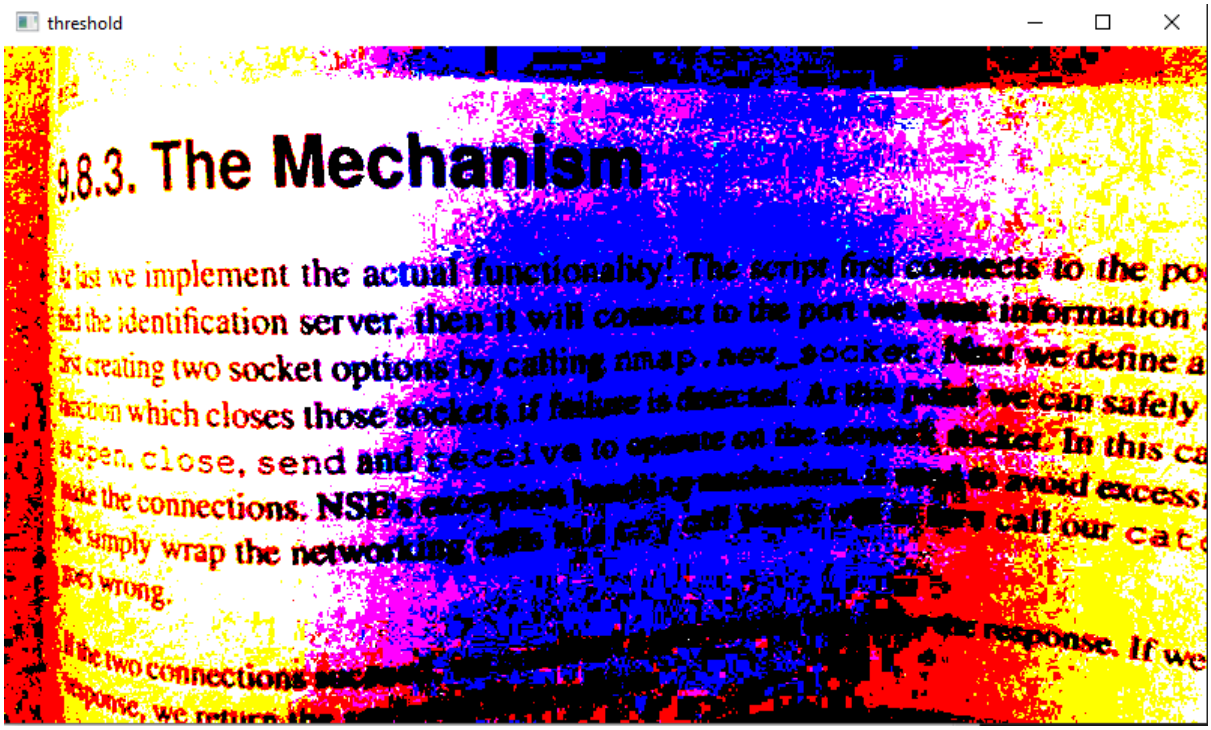
Resultados:


original
9.8.3. The Mechanism


otsu


gaus
9.8.3. The Mechanism
open, close, send and receive to operate on the network socket. In this ca
the connections. NSE's exception handling mechanism is used to avoid excess
We simply wrap the networking calls in a try call which will in turn call our cat
goes wrong.
If the two connections succeed, we construct a query string and parse the response. If we
response, we return the retrieved information.


threshold2
9.8.3. The Mechan
implement the actual
identification server, th
creating two socket option
which closes those so
open, close, send and
the connections. NSE
We simply wrap the netwo
goes wrong.
If the two connections
response, we return
connects to the po
information
we define a
can safely
socket. In this ca
avoid excess
call our cat
response. If we


threshold
9.8.3. The Mechanism
identification server, then it will connect to the port we want information
creating two socket options by calling nmap.new_socket. Next we define a
which closes those sockets if failure is detected. At this point we can safely
close, send and receive to operate on the server socket. In this ca
the connections. NSE's
simply wrap the networking
wrong.
two connections are
response. If we