



# DETECCIÓN DE CARACTERES ALFANUMÉRICOS EN PLACAS DE VEHÍCULOS COLOMBIANOS

# Motivación

- El 2018 fue el peor año en la historia del país en materia del hurto de vehículos automotores. Según cifras de Asopartes, el año pasado se robaron 40.900 automotores entre motos y vehículos, un 12 por ciento más que en el año 2017. Esto significa, que en Colombia se roban hoy alrededor de 112 vehículos y motos diariamente, entre 5 y 7 por hora.





# Escala de grises



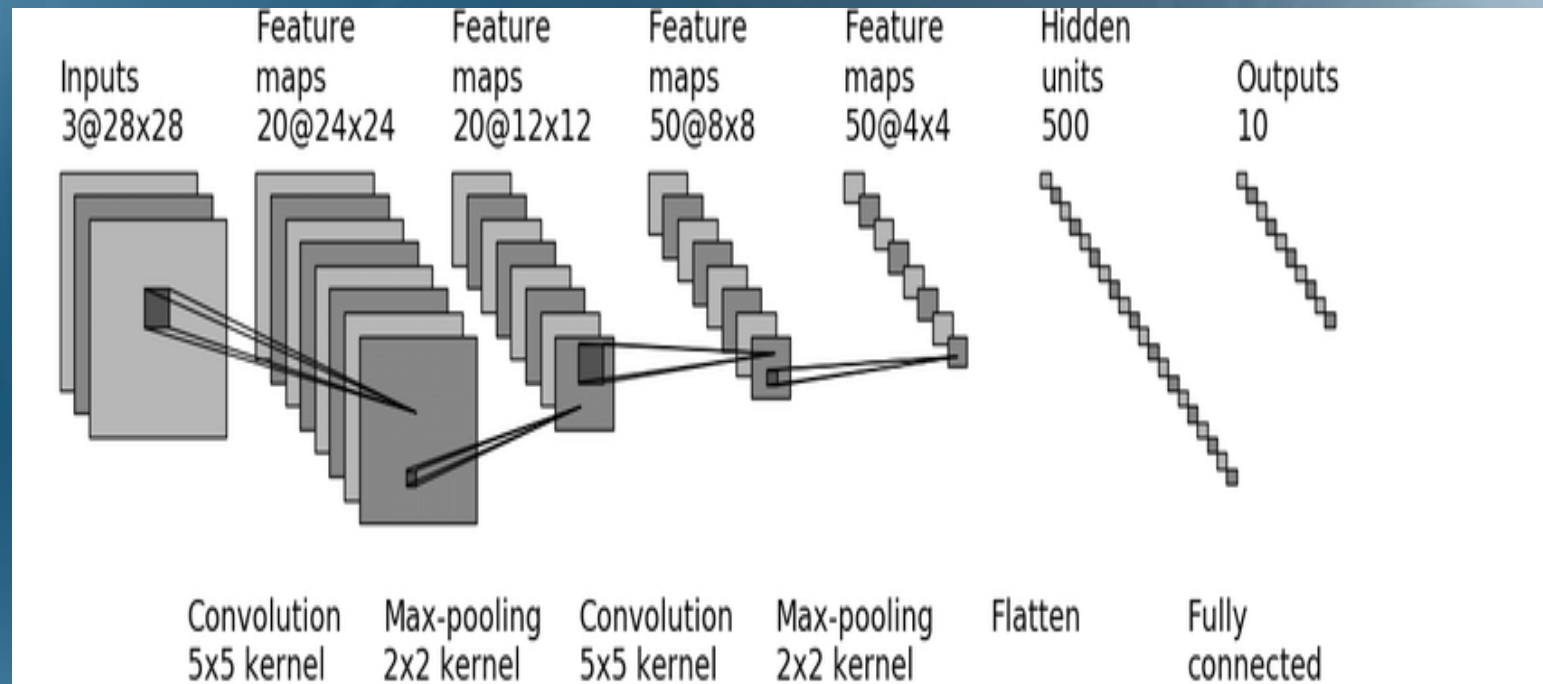
## BoundingRect







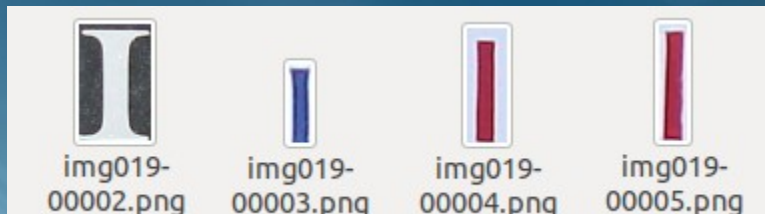
# Red Neuronal Convolucional

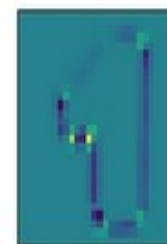
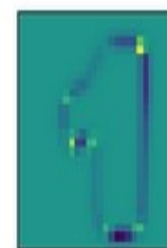
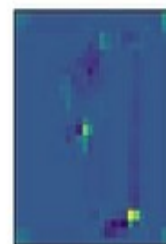
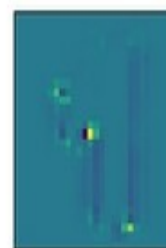
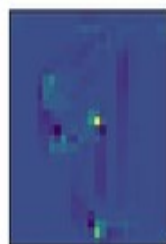
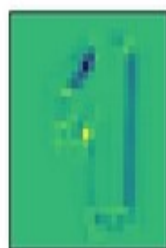
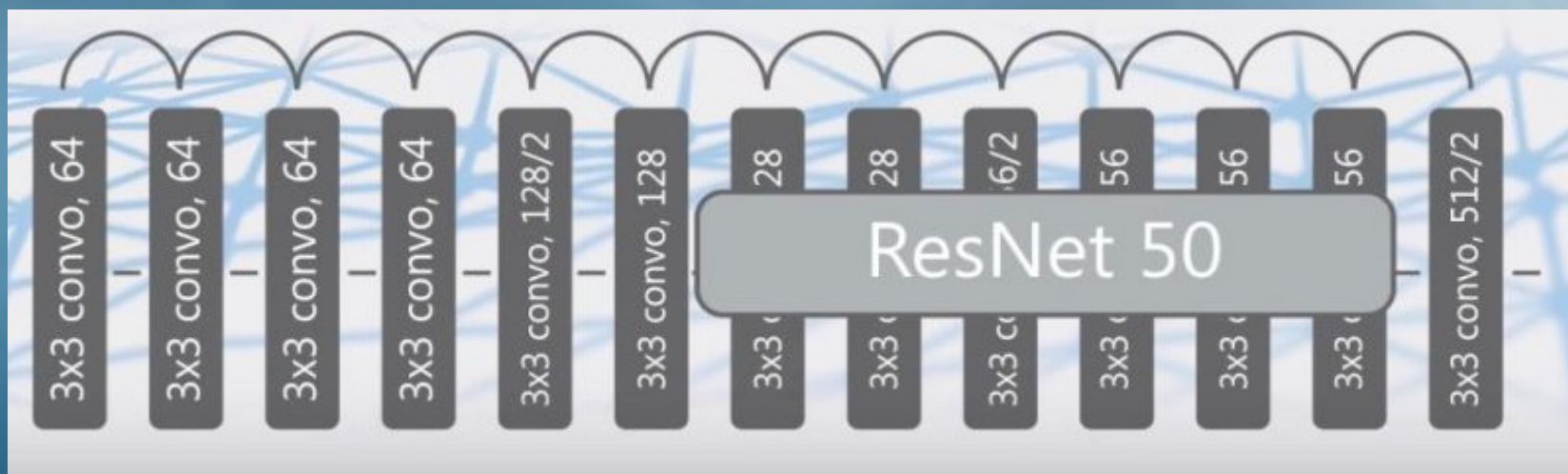


# The Chars74K dataset

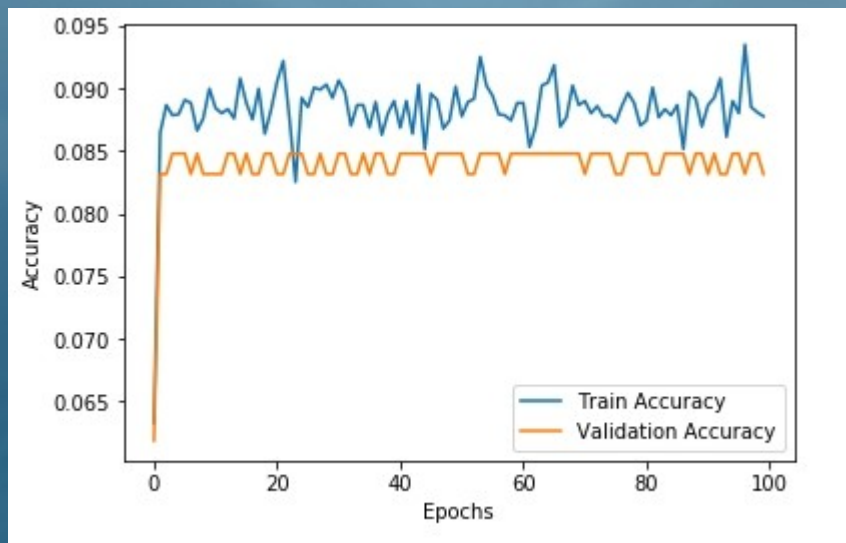


## Mejorar dataset

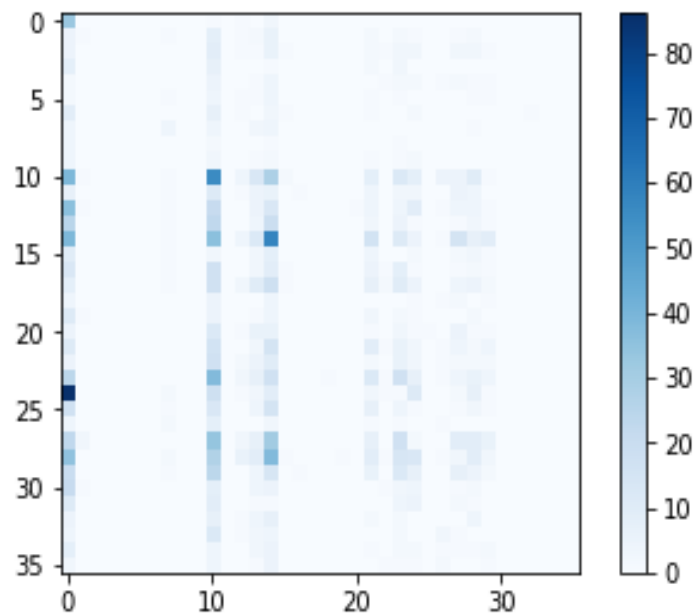




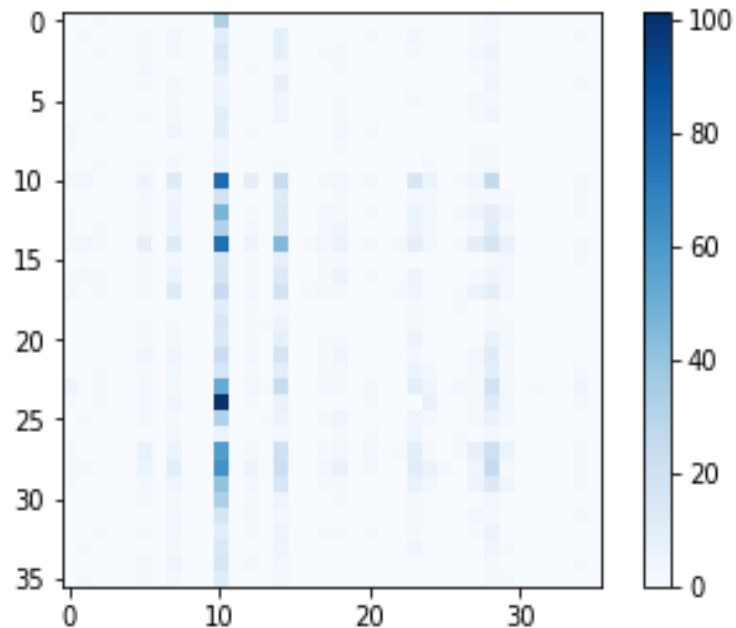


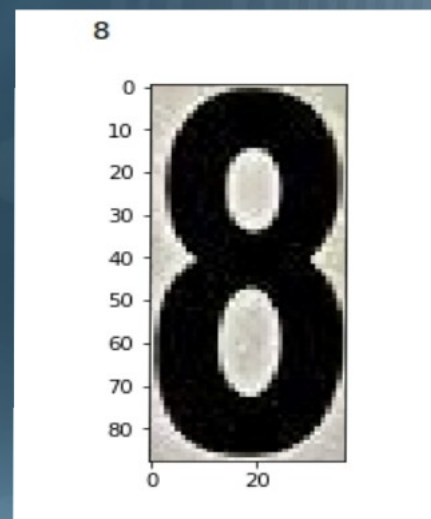
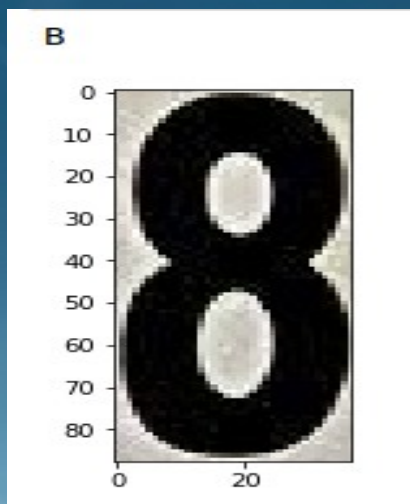
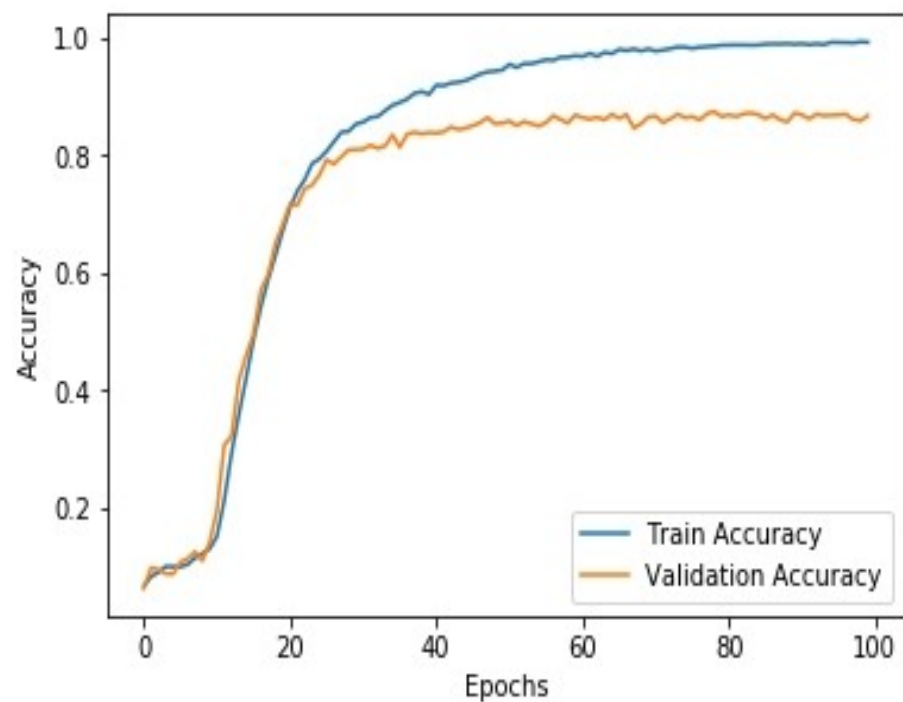
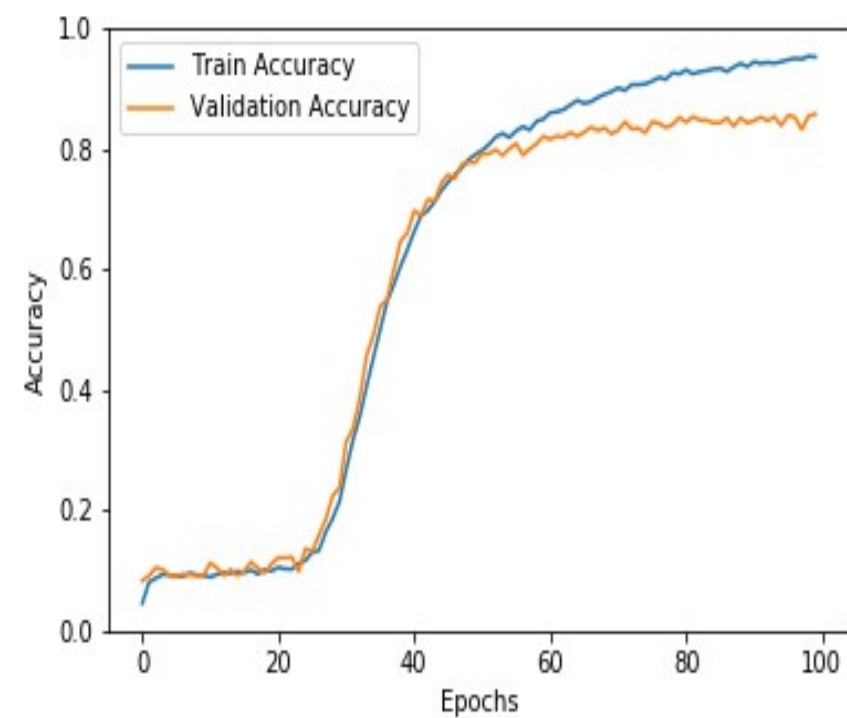


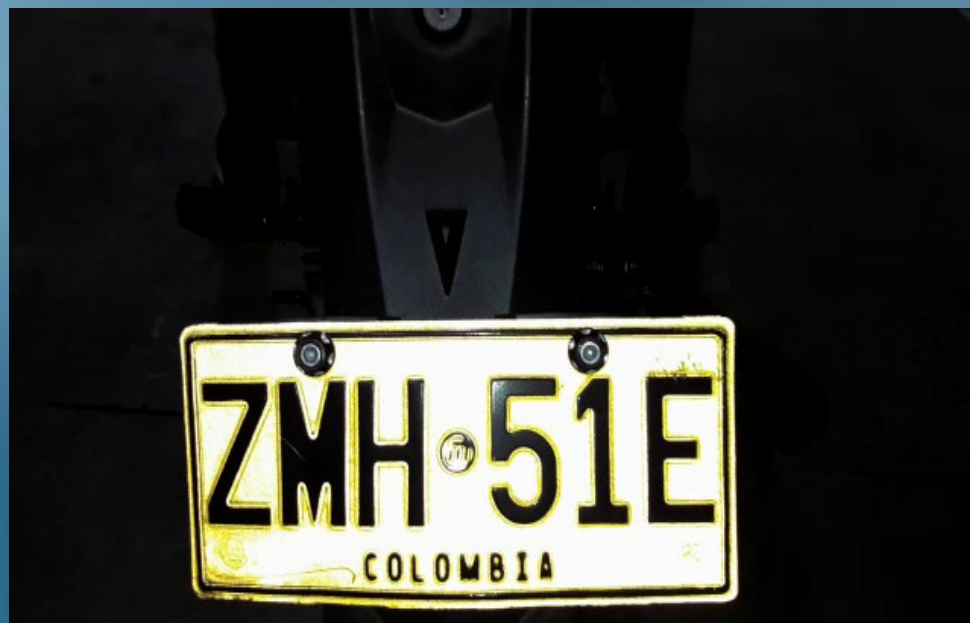
0.09320557491289198



0.08144599303135888





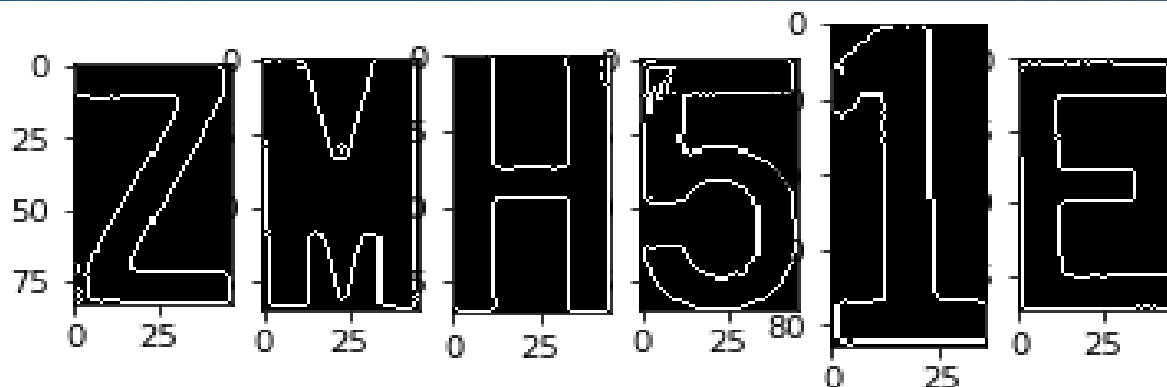


```
-----
[[252  35  33  78]
 [ 65  35  44  79]
 [ 16  35  45  79]
 [198  34  43  79]
 [115  34  44  80]
 [295  33  42  80]]
```

Lo logró para el frame 15

```
-----
[[0 0 0 0]
 [0 0 0 0]
 [0 0 0 0]
 [0 0 0 0]
 [0 0 0 0]
 [0 0 0 0]]
```

NO logró para el frame 16



The background is a solid blue color with a subtle, abstract pattern of white lines and dots, resembling a circuit board or a network diagram. The pattern is more prominent on the right side and fades towards the left.

GRACIAS