

Project development phase
Sprint - 3 Test case

Date	19 November 2022
Team ID	PNT2022TMID03574
Project Name	VirtualEye-Lifeguard for Swimming Pools to Detect the Active Drowning

[net] #

Testing #

batch=1

subdivisions=1

Training batch=64

subdivisions=16

width=608 height=608

channels=3

momentum=0.9

decay=0.0005

angle=0 saturation =

1.5 exposure =

1.5 hue=.1

learning_rate=0.01

burn_in=1000 max_batches

= 500200 policy=steps

steps=400000,450000

scales=.1,.1

[convolutional]

batch_normalize=1

filters=32 size=3

stride=1 pad=1

activation=leaky

Downsample

[convolutional]

batch_normalize=1

filters=64 size=3

stride=2 pad=1

activation=leaky

[convolutional]

batch_normalize=1

filters=32 size=1

stride=1 pad=1

activation=leaky

[convolutional]

batch_normalize=1

filters=64 size=3

stride=1 pad=1

activation=leaky

[shortcut]

from=-3

activation=linear

r #

Downsample

[convolutional]
batch_normalize=1
filters=128 size=3
stride=2 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=64 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=128 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=64 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=128 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

Downsample

[convolutional]
batch_normalize=1
filters=256 size=3
stride=2 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1

filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky
[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear
#

Downsample

[convolutional]
batch_normalize=1
filters=512 size=3
stride=2

pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1
pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=256 size=1

stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear
#

Downsample

[convolutional]
batch_normalize=1
filters=1024 size=3
stride=2 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=1024 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=1024 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=1024 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
filters=1024 size=3
stride=1 pad=1
activation=leaky

[shortcut] from=-3
activation=linear

#####

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=1024
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=1024
activation=leaky

[convolutional]
batch_normalize=1
filters=512 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1

size=3 stride=1
pad=1 filters=1024
activation=leaky

[convolutional]
size=1 stride=1
pad=1 filters=255
activation=linear

[yolo] mask
= 6,7,8
anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119, 116,90,
156,198, 373,326
classes=80 num=9
jitter=.3
ignore_thresh = .7
truth_thresh = 1
random=1

[route] layers =
-4

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[upsample]
stride=2

[route] layers
= -1, 61

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=512
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1

size=3 stride=1
pad=1 filters=512
activation=leaky

[convolutional]
batch_normalize=1
filters=256 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=512
activation=leaky

[convolutional]
size=1 stride=1
pad=1 filters=255
activation=linear

[yolo] mask
= 3,4,5
anchors =
10,13,
16,30,
33,23,
30,61,
62,45,
59,119,
116,90,
156,198, 373,326
classes=80
num=9
jitter=.3
ignore_thresh = .7
truth_thresh = 1
random=1

[route] layers =
-4

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[upsample]
stride=2

[route] layers
= -1, 36

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=256
activation=leaky

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=256
activation=leaky

[convolutional]
batch_normalize=1
filters=128 size=1
stride=1 pad=1
activation=leaky

[convolutional]
batch_normalize=1
size=3 stride=1
pad=1 filters=256
activation=leaky

[convolutional]
size=1 stride=1
pad=1 filters=255
activation=linear

[yolo] mask
= 0,1,2
anchors = 10,13, 16,30, 33,23, 30,61, 62,45, 59,119, 116,90,
156,198, 373,326
classes=80 num=9
jitter=.3
ignore_thresh = .7
truth_thresh = 1
random=1