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LAMPIRAN

LAMPIRAN 1 : Facial Expression Recognition

```
from __future__ import print_function
import argparse
import os
import cv2
import pandas as pd
import numpy as np
import torch
from torchvision import transforms
from PIL import Image
from torch.utils.data import DataLoader, Dataset
import torch.nn.functional as F
from deep_emotion import Deep_Emotion
from data_loaders import Plain_Dataset, eval_data_dataloader
import smbus
import os
from time import sleep

device = torch.device("cuda:0" if torch.cuda.is_available() else
"cpu")

transformation =
transforms.Compose([transforms.ToTensor(),transforms.Normalize((0.5,)
,(0.5,))])
dataset = Plain_Dataset(csv_file='data'+'/'+'train.csv',img_dir =
'data'+'/'+'test/',datatype = 'finaltest',transform = transformation)
test_loader =  DataLoader(dataset,batch_size=64,num_workers=0)

net = Deep_Emotion()
print("Deep Emotion:-", net)
model = 'deep_emotion1-2-128-0.005.pt'
net.load_state_dict(torch.load(model))
net.to(device)
net.eval()

#Model Evaluation on test data
classes = ('Angry', 'Angry', 'Angry' 'Happy','Sad', 'Happy' , 'Sad')
total = []
test_acc = False
if test_acc:
    with torch.no_grad():
        for data, labels in test_loader:
            data, labels = data.to(device), labels.to(device)
            outputs = net(data)
            pred = F.softmax(outputs,dim=1)
            classs = torch.argmax(pred,1)
            wrong = torch.where(classs !=
labels,torch.tensor([1.]).cuda(),torch.tensor([0.]).cuda())
            acc = 1- (torch.sum(wrong) / 64)
            total.append(acc.item())
```

```
    print('Accuracy of the network on the test images: %d %%' % (100
* np.mean(total)))


#helper_function for real time testing
def load_img(path):
    img = Image.open(path)
    img = transformation(img).float()
    img = torch.autograd.Variable(img,requires_grad = True)
    img = img.unsqueeze(0)
    return img.to(device)
cam = True
if cam:
    cap = os.system('libcamera-still -o /home/iascr/Downloads/Deep-
Emotion-master/imgs/oke.jpg -t 4000 --width 740 --height 780')
    while True:
        face_cascade =
cv2.CascadeClassifier('./cascade_model/haarcascade_frontalface_defaul
t.xml')
        # Read the frame
        img = cv2.imread("/home/iascr/Downloads/Deep-Emotion-
master/imgs/oke.jpg")
        # Convert to grayscale
        gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
        # Detect the faces
        faces = face_cascade.detectMultiScale(gray, 1.1, 4)
        # Draw the rectangle around each face
        #roi = cv2.resize(gray,(48,48))
        #cv2.imwrite("D:/Kuliah/Tugas-akhir/Realtime-Face-Emotion-
Recognition-main/oke.jpg", roi)
        facess = face_cascade.detectMultiScale(img)
        if len(facess) == 0:
            print("no face detected")
        else:
            imgg = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
            imgg = cv2.resize(imgg,(48,48))
            imgg = np.expand_dims(imgg, axis = 0)
            imgg = np.expand_dims(imgg, axis = 0)
            imgg = imgg/255.0
            data = torch.from_numpy(imgg)
            data = data.type(torch.FloatTensor)
            data = data.to(device)
            out = net(data)
            pred = F.softmax(out, dim = 1)
            classs = torch.argmax(pred,1)
            wrong = torch.where(classs !=
3,torch.tensor([1.]).cpu(),torch.tensor([0.]).cpu())
            classs = torch.argmax(pred,1)
            prediction = classes[classs.item()]
            print(prediction)
```

LAMPIRAN 2 : Algoritma Genetika

```
%Mainsmatroom
clear
clc
besar_populasi=10;
laju_mutasi = 0.05;
total_generasi = 150;
%cahayaT = 200;
prev.gen = [0 0 0 0];

prev.fitness = 0;
delay = 0;
global s;
s = serialport('COM3',9600);
fopen(s);
isLooping = true;
data2 =
zeros(total_generasi,9);
data1 =
zeros(total_generasi,8);

i = 1;
for i = 1:1
    i = i+1;

[ga,data,populasi_awal,cahayaT]
= GAmain(data1,data2, prev,
besar_populasi,laju_mutasi,
total_generasi);
gen(1) = prev.gen(1)-ga.gen(1);
gen(2) = prev.gen(2) -
ga.gen(2);
gen(3) = prev.gen(3) -
ga.gen(3);
gen(4) = prev.gen (4) -
ga.gen(4);
%fitness GAcalculateFitness
(prev,ga.gen,suhuId,cahayaT,
suDa,suLu,caDa,caLu);
    pause(delay);
    serialWrite(gen,s)
end
clear s
```

```
%calculate nilai fitness
function [Euclidean_distanse ,
Euclidean_distanse_cahaya,
Euclidean_distanse_Suhu, luxTambahan,
luxKiraan]=
GAcalculateFitness(prev,gen,suhuId,
cahayaT,suDa,suLu,caDa,caLu)

    lampu1       = gen(1);
    kipas       = gen(2);
    jendela     = gen(3);
    lampu2       = gen(4);
    suhuTarget  = suhuId;
    luxTambahan =
luxLampu(lampu1,lampu2,jendela);
    %disp(luxTambahan)
    %luxSebelum  =
luxLampu(prev.gen(1),prev.gen(4),prev.gen(3))+
luxJendela(caLu, prev.gen(3));
    luxKiraan   = abs(caDa + luxTambahan);

    if suDa < suLu && suDa < suhuTarget
        suhuKiraan = suDa +
suhu(kipas,jendela);
    elseif suDa > suLu && suDa > suhuTarget
        suhuKiraan =  suDa -
suhu(kipas,jendela);

    elseif suDa <= suLu && suDa >= suhuTarget
        suhuKiraan = suDa +
suhu(kipas,jendela);
    elseif suDa >= suLu && suDa <= suhuTarget
        suhuKiraan = suDa -
suhu(kipas,jendela);
    end

   Euclidean_distanse_Suhu     =suhuId -
suhuKiraan;
   Euclidean_distanse_cahaya  = abs(cahayaT -
luxKiraan);
   Euclidean_distanse        = abs(cahayaT -
luxKiraan);

end
```

GAMain

```
function [mutant1, data,populasi_awal,cahayaT] = GAmain(data,data2,
prev, besar_populasi,laju_mutasi,total_generasi)
clear s
global s
[populasi,cahayaT,suhuId] = GAcreatePopulation(prev, besar_populasi);
populasi_awal = populasi;
isLooping = true;
generasi = 0;
check = 0;
ED=0;
ulang = true;
solusi = struct();
while isLooping
    if ulang == true
    [parent1,parent2] = GAselection(populasi);
    [child1,child2] = GAcrossover(parent1,parent2);
    disp("Crossover selesai");
    mutant1 = GAmutation(child1,laju_mutasi);
    mutant2 = GAmutation(child2,laju_mutasi);
    %disp(mutant1)
    %disp(mutant2)
    %disp("Mutasi selesai")
    [~, suDa, suLu, caDa, caLu, ~] = serialRead(s);
    [mutant1.Euclidean_distanse,mutant1.Euclidean_distanseCahaya,
mutant1.Euclidean_distanseSuhu, mutant1.luxlampu,
mutant1.lumencapaianindividu] =
GAcalculateFitness(prev,mutant1.gen,suhuId,cahayaT,suDa,suLu,caDa,caLu
);
    [mutant2.Euclidean_distanse,mutant2.Euclidean_distanseCahaya,
mutant2.Euclidean_distanseSuhu, mutant2.luxlampu,
mutant2.lumencapaianindividu] =
GAcalculateFitness(prev,mutant2.gen,suhuId,cahayaT,suDa,suLu,caDa,caLu
);
    disp("Mengirim inidvidu baru");
    %populasi = GAregeneration(children,populasi);
    for p = 1 : length(populasi)
        ED = ED + populasi(p).Euclidean_distanse;
    end
    ED1 = ED + mutant1.Euclidean_distanse +
mutant2.Euclidean_distanse;
    mutant1.fitness = 1 -  (mutant1.Euclidean_distanse/ED1);
    mutant2.fitness = 1 -  (mutant2.Euclidean_distanse/ED1);
    [solusi1,~] = GAselection1(populasi);
    ulang = false;
    coba1 = [mutant1.gen(1),mutant1.gen(4),
mutant1.gen(2),mutant1.gen(3)];
    coba2 = [mutant2.gen(1),mutant2.gen(4),
mutant2.gen(2),mutant2.gen(3)];
    end
    if generasi >= 2
           LX = ismember(coba1,data(1:generasi,2:5),"rows");
```

```
            disp(LX);
            disp("masukmi");
            if LX == 1
                LX2 = ismember(coba2,data(1:generasi,2:5),"rows");
                if LX2 == 1
                    ulang = true;
                    disp("masukmi2");
                else
                     solusi = mutant2;
                     generasi = generasi + 1;
                     disp("Generasi sekarang");
                     disp(generasi);
                     data(generasi,:) = [generasi,
solusi.gen(1),solusi.gen(4), solusi.gen(2), solusi.gen(3),
solusi.Euclidean_distanse, solusi.luxlampu,
solusi.lumencapaianindividu];
                end
            else
                    solusi = mutant1;
                     generasi = generasi + 1;
                     disp("Generasi sekarang");
                     disp(generasi);
                     data(generasi,:) = [generasi,
solusi.gen(1),solusi.gen(4), solusi.gen(2), solusi.gen(3),
solusi.Euclidean_distanse, solusi.luxlampu,
solusi.lumencapaianindividu];
            end
    else
        solusi = mutant1;
        generasi = generasi + 1;
        disp("Generasi sekarang");
        disp(generasi);
        data(generasi,:) = [generasi, solusi.gen(1),solusi.gen(4),
solusi.gen(2), solusi.gen(3),   solusi.Euclidean_distanse,
solusi.luxlampu,  solusi.lumencapaianindividu];
    end
    children = [solusi mutant2];
    populasi = GAregeneration(children,populasi);
   if generasi == total_generasi
                isLooping = false;
                disp("masukmi3");
   else
       ulang= true;
       disp(solusi);
   end
 end
end
```

GAcreatePopulation

```
function[ populasi,cahayaT,suhuId] = GAcreatePopulation(prev,
besar_populasi)
```

```
clear s
    populasi = struct();
    ED = 0;
    fitness = 0;
    gensekarang = 0;
    prev.gen = [0 0 0 0];
    global s;
    for k=1:besar_populasi
        creategen = true;
        while creategen
        gen = GAcreateGen();
        populasi(k).gen = gen;
        %a = serialport('COM3',9600);
             gen = populasi(k).gen;
            [emotion, suDa, suLu, caDa, caLu, ~] = serialRead(s);
            emosi = [700 700 700];
            suhuId = 23;
            cahayaT= emosi(emotion);
            [Euclidean_distanse, Euclidean_distanseCahaya,
Euclidean_distanseSuhu, luxlampu, lumencapaianindividu] =
GAcalculateFitness(prev,gen,suhuId,cahayaT,suDa,suLu,caDa,caLu);
            ED = ED + Euclidean_distanse;
            populasi(k).Euclidean_distanse = Euclidean_distanse;
            populasi(k).Euclidean_distanseCahaya =
Euclidean_distanseCahaya;
            populasi(k).Euclidean_distanseSuhu =
Euclidean_distanseSuhu;
            populasi(k).luxlampu = luxlampu;
            populasi(k).lumencapaianindividu = lumencapaianindividu;
            disp(Euclidean_distanse);
            creategen = false;
            if Euclidean_distanse > 50
                creategen = true;
            else
                creategen = false;
            end
        end
        gensekarang = gensekarang + 1;
        disp("gensekarang");
        disp(gensekarang);
    end
         for i = 1:besar_populasi
            Euclidean_distanse = populasi(i).Euclidean_distanse;
            fitness = 1 - (Euclidean_distanse./ED);
            populasi(i).fitness = fitness;
             % populasi(i).luxSebelum = luxSebelum;
        end
clear s
end
```

serialWrite

```
function [] = serialWrite(ga,s)
a = int2str(ga(1));
b = int2str(ga(2));
c = int2str(ga(3));
d = int2str(ga(4));

fwrite(s,a);
pause(15);
fwrite(s,b);
pause(15);
fwrite(s,c);
pause(15);
fwrite(s,d);
pause(15);
end
```

luxLampu

```
function luxLampu =
luxLampu(lampu1,lampu2,jendela)

    m1 = 1.70436367920813;
    m2 = 1.58152272466225;
    m3 = -0.630000000000001;
    c = 267.908933713251;

    luxLampu = ( (m1*(lampu1)) +
(m2*(lampu2)) + (jendela*(m3)) +
c);
end
```

```
function [child1,child2] =
GAcrossover(parent1,parent2)
    child1 = parent1;
    child2 = parent2;

    CP =
(1:(length((parent1.gen)/2)));

    child1.gen(1:CP) =
parent2.gen(1:CP);
    child2.gen(1:CP) =
parent1.gen(1:CP);
end
```

```
function [gen] = GAcreateGen()
    gen = zeros(1,4);
    gen(1) = randi([0,255]);
    gen(2) = randi([1,3]);
    gen(3) = randi([0,100]);
    gen(4) = randi([0,255]);
end
```

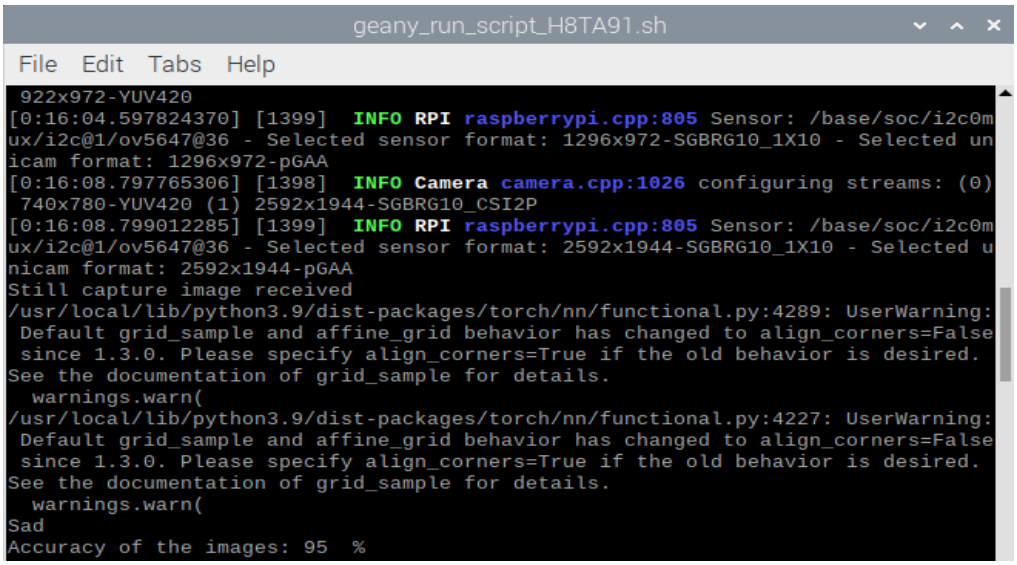
```
function [parent1,parent2] =
GAselection(populasi)

    fitness_data =
zeros(1,length(populasi));

    for i=1:length(populasi)
        fitness_data(i) =
populasi(i).fitness;
        %fitness_data(i) =
populasi(i).Euclidean_distanse;
    end

    [~,index] =max(fitness_data);
    parent1 = populasi(index);

    populasi(index) = [];
```

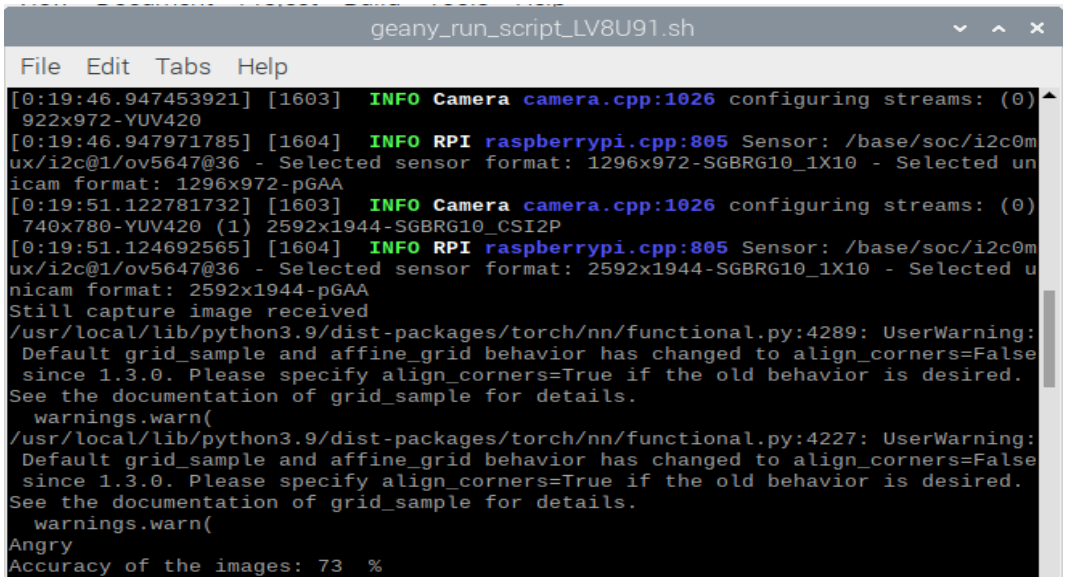
```
function mutant =
GAmutation(child,laju_mutasi)
    mutant = child;
    if rand <= laju_mutasi
        mutant.gen(1) =
randi([0,224]);
    end
    if rand <= laju_mutasi
        mutant.gen(2) =
randi([1,3]);
    end
    if rand <= laju_mutasi
        mutant.gen(3) =
randi([0,100]);
    end
    if rand <= laju_mutasi
```

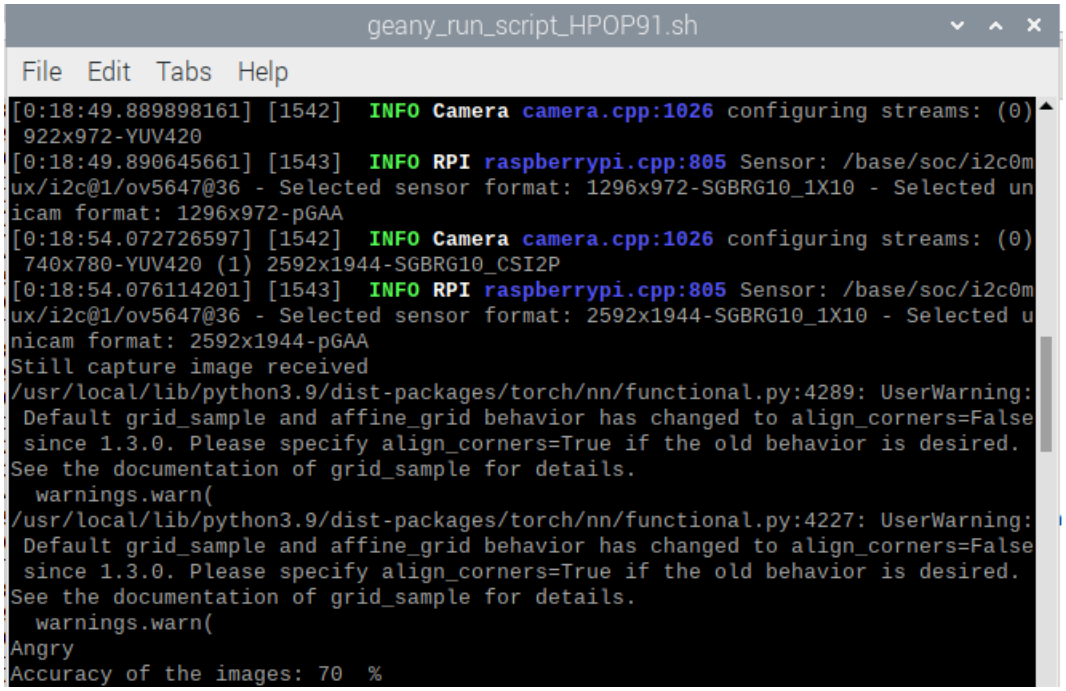
```
    fitness_data(index) = [];

    [~,index] = max(fitness_data);
    parent2 = populasi(index);
end
```

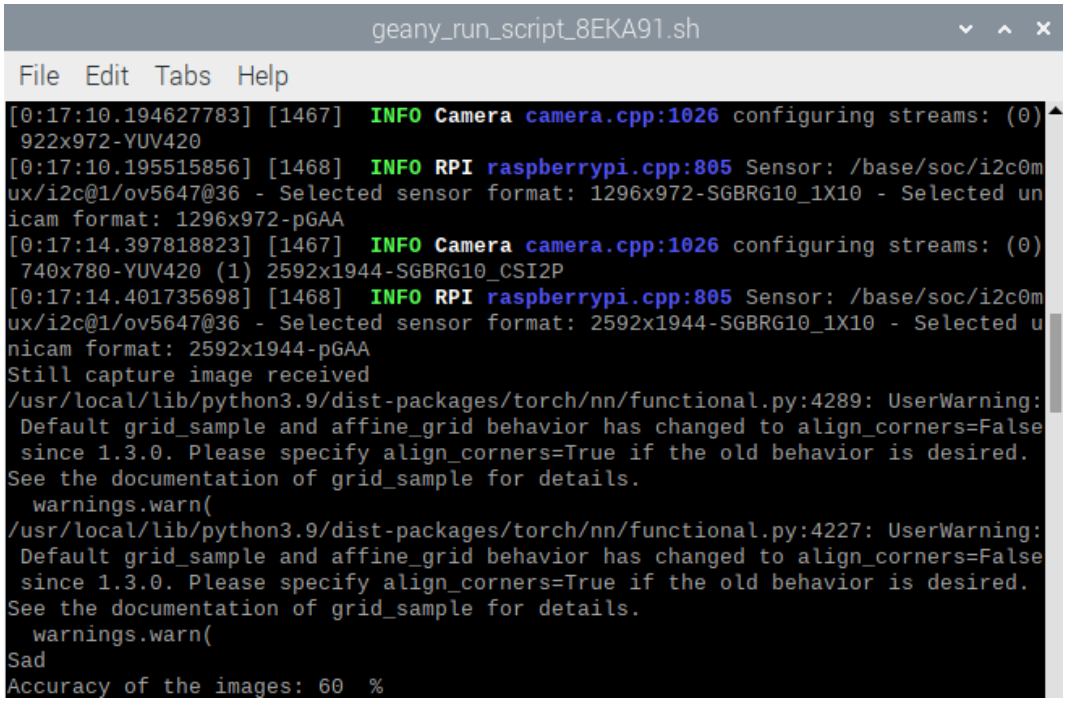
```
        mutant.gen(4) =
randi([0,255]);
    end
end
```

LAMPIRAN 3. Hasil pengujian Facial Expression Recognition




geany_run_script_LV8U91.sh
File Edit Tabs Help
[0:19:46.947453921] [1603] INFO Camera camera.cpp:1026 configuring streams: (0) 922x972-YUV420
[0:19:46.947971785] [1604] INFO RPI raspberrypi.cpp:805 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 1296x972-SGBRG10_1X10 - Selected unicam format: 1296x972-pGAA
[0:19:51.122781732] [1603] INFO Camera camera.cpp:1026 configuring streams: (0) 740x780-YUV420 (1) 2592x1944-SGBRG10_CSI2P
[0:19:51.124692565] [1604] INFO RPI raspberrypi.cpp:805 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 2592x1944-SGBRG10_1X10 - Selected unicam format: 2592x1944-pGAA
Still capture image received
/usr/local/lib/python3.9/dist-packages/torch/nn/functional.py:4289: UserWarning: Default grid_sample and affine_grid behavior has changed to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired.
See the documentation of grid_sample for details.
warnings.warn(
/usr/local/lib/python3.9/dist-packages/torch/nn/functional.py:4227: UserWarning: Default grid_sample and affine_grid behavior has changed to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired.
See the documentation of grid_sample for details.
warnings.warn(
Angry
Accuracy of the images: 73 %


geany_run_script_HPOP91.sh
File Edit Tabs Help
[0:18:49.889898161] [1542] INFO Camera camera.cpp:1026 configuring streams: (0) 922x972-YUV420
[0:18:49.890645661] [1543] INFO RPI raspberrypi.cpp:805 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 1296x972-SGBRG10_1X10 - Selected unicam format: 1296x972-pGAA
[0:18:54.072726597] [1542] INFO Camera camera.cpp:1026 configuring streams: (0) 740x780-YUV420 (1) 2592x1944-SGBRG10_CSI2P
[0:18:54.076114201] [1543] INFO RPI raspberrypi.cpp:805 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 2592x1944-SGBRG10_1X10 - Selected unicam format: 2592x1944-pGAA
Still capture image received
/usr/local/lib/python3.9/dist-packages/torch/nn/functional.py:4289: UserWarning: Default grid_sample and affine_grid behavior has changed to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired.
See the documentation of grid_sample for details.
warnings.warn(
/usr/local/lib/python3.9/dist-packages/torch/nn/functional.py:4227: UserWarning: Default grid_sample and affine_grid behavior has changed to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired.
See the documentation of grid_sample for details.
warnings.warn(
Angry
Accuracy of the images: 70 %


geany_run_script_8EKA91.sh
File Edit Tabs Help
[0:17:10.194627783] [1467] INFO Camera camera.cpp:1026 configuring streams: (0) 922x972-YUV420
[0:17:10.195515856] [1468] INFO RPI raspberrypi.cpp:805 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 1296x972-SGBRG10_1X10 - Selected unicam format: 1296x972-pGAA
[0:17:14.397818823] [1467] INFO Camera camera.cpp:1026 configuring streams: (0) 740x780-YUV420 (1) 2592x1944-SGBRG10_CSI2P
[0:17:14.401735698] [1468] INFO RPI raspberrypi.cpp:805 Sensor: /base/soc/i2c0mux/i2c@1/ov5647@36 - Selected sensor format: 2592x1944-SGBRG10_1X10 - Selected unicam format: 2592x1944-pGAA
Still capture image received
/usr/local/lib/python3.9/dist-packages/torch/nn/functional.py:4289: UserWarning: Default grid_sample and affine_grid behavior has changed to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired.
See the documentation of grid_sample for details.
warnings.warn(
/usr/local/lib/python3.9/dist-packages/torch/nn/functional.py:4227: UserWarning: Default grid_sample and affine_grid behavior has changed to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired.
See the documentation of grid_sample for details.
warnings.warn(
Sad
Accuracy of the images: 60 %