

LAMPIRAN

Dataset hasil ekstraksi

```
clear all;
clc;
close all;
for kkk=1:3
% Load the images from
T=[];
data_train=[];
temp=0;
for z=1:60
    close all;
    str= int2str(z);
    str=strcat('\',str, '.jpg');
    if(kkk==1)
    TrainDatabasePath='D:\Tesis\Goldfish\Fantail';
    elseif(kkk==2)
        TrainDatabasePath='D:\Tesis\Goldfish\Oranda';
        elseif(kkk==3)
            TrainDatabasePath='D:\Tesis\Goldfish\Ranchu';
    end

    str=strcat(TrainDatabasePath,str);

I=imread(str);
%I=rgb2gray(double(I));

I=imresize(I,[256 256]);
I=rgb2hsv(I);
I=I(:, :, 3);
load colormaps.mat
[row,column]=size(I);
segment(row,column,double(I));
load I_segment;
% Filter the image
for i=1:2
    for j=1:2
        [canout] =cannyedgedetector(I_segment(:, :, i, j),0.05);
        x(i,j)=canout;
    end
end

ha(:, :, z)=[x x];
save ha;
clear t11;
%disp(M);
%disp(P);
    T=[T temp];
end

%rescale();
load ha;
for ss1=1:60
```

```

        fr=0;
        for qq=1:1
            for gg=1:2
                fr=fr+1;
            t11=x
            end
        end
    end
end

train_datasehsv{1, kkk}=t11;

end

classes={'fantail' 'oranda' 'ranchu'};

save('train_data.mat', 'train_datasehsv', 'classes')
dlmwrite('train_cannyhsv.txt', train_datasehsv);

```

Probabilistic Neural Network Matlab

```

t=ind2vec(ind2);
net=newpnn(p,t,0.1);%%MULAI PNN
t_test=sim(net,test);
n_num=vec2ind(t_test);

mak=max(n_num)
%set(handles.result,'String',n3{n_num},'FontAngle','Italic');
% function D = PNN(train_features, train_targets, sigma,
region)

```