人脸识别源代码

i=imread('xiaoju1.jpg');

I=rgb2gray(i);

BW=im2bw(I);

figure;

imshow(BW);

[n1, n2]=size(BW);

a=floor(n1/20);

b=floor(n2/20);

x1=1;x2=a;

c=a\*b;

for i=1:10

y1=1;y2=b;

for j=1:10

if(y2<=b || y2>=9\*b) || (x1==1 || x2==a\*10)

loc=find(BW(x1:x2,y1:y2)==0);

[f, g]=size(loc);

pr=f\*100/c;

if pr<=100

BW(x1:x2,y1:y2)=0;

r1=x1;r2=x2;s1=y1;s2=y2;

pr1=0;

end

imshow(BW);

end

y1=y1+b;

y2=y2+b;

end

x1=x1+a;

x2=x2+b;

end

figure(2)

subplot(1,2,1);

imshow(BW)

title('图像处理');

L=bwlabel(BW,8);

BB=regionprops(L,'BoundingBox');

BB1=struct2cell(BB);

BB2=cell2mat(BB1);

[s1, s2]=size(BB2);

mx=0;

for k=3:4:s2-1

g=BB2(1,k)\*BB2(1,k+1);

if g>mx && (BB2(1,k)/BB2(1,k+1))<1.6

mx=g;

j=k;

end

end

subplot(1,2,2);

title('人脸识别');

imshow(I);

hold on;

rectangle('Position',[BB2(1,j-2),BB2(1,j-1),BB2(1,j),BB2(1,j)],'EdgeColor','b')