I = imread(&#39;45.jpg&#39;);

%histogram

%CONVERT THE RGB IMAGE INTO HSV IMAGE FORMAT

HSV = rgb2hsv(I);

Heq = histeq(HSV(:,:,2));

HSV\_mod = HSV;

HSV\_mod(:,:,2) = Heq;

RGB = hsv2rgb(HSV\_mod);

% figure,subplot(1,2,1),imshow(I);title(&#39;Before Histogram Equalization&#39;);

%

% subplot(1,2,2),imshow(RGB);title(&#39;After Histogram Equalization&#39;);

b = imadjust(RGB, [], [], 0.7);

% figure(2),subplot(1,3,1),imshow(b);title(&#39;After gamma correction

gamma= 0.7&#39;);

% imtool(b);

b1=rgb2hsv(b);

ima=b1;

% imtool(ima);

% hue component

ima(:,:,1)=0;

%ima(:,:,1)=0;

% convert to rgb

ui=hsv2rgb(ima);

%red

y=ui(:,:,1);

% imtool(y);

% figure(3),subplot(1,3,3),imshow(y);title(&#39;only r component&#39;);

% %mask

% s=6;

% t=[0.01 0.5];

% cani=edge(y,&#39;canny&#39;,t,s);

% imtool(cani);

% bwi0=im2bw(cani);

%using gray

grayim=rgb2gray(b);

% mask

s=3;

t=[0.01 0.25];

cani=edge(grayim,&#39;canny&#39;,t,s);

I = imread(&#39;45.jpg&#39;);

imtool(I);

%histogram

%CONVERT THE RGB IMAGE INTO HSV IMAGE FORMAT

HSV = rgb2hsv(I);

Heq = histeq(HSV(:,:,2));

HSV\_mod = HSV;

HSV\_mod(:,:,2) = Heq;

RGB = hsv2rgb(HSV\_mod);

% figure,subplot(1,2,1),imshow(I);title(&#39;Before Histogram Equalization&#39;);

%

% subplot(1,2,2),imshow(RGB);title(&#39;After Histogram Equalization&#39;);

b = imadjust(RGB, [], [], 0.7);

% figure(2),subplot(1,3,1),imshow(b);title(&#39;After gamma correction

gamma= 0.7&#39;);

imtool(b);

b1=rgb2hsv(b);

ima=b1;

% imtool(ima);

% hue component

ima(:,:,1)=0;

%ima(:,:,1)=0;

% convert to rgb

ui=hsv2rgb(ima);

%red

y=ui(:,:,1);

imtool(y);

% figure(3),subplot(1,3,3),imshow(y);title(&#39;only r component&#39;);

% %mask

s=6;

t=[0.01 0.2];

cani=edge(y,&#39;canny&#39;,t,s);

imtool(cani);

bwi0=im2bw(cani);

%combining mask

[m n]=size(bwi0);

or=b(:,:,1);

or1=b(:,:,2);

or2=b(:,:,3);

combine=b;

for i=1:m

for j=1:n

if bwi0(i,j)==1

or(i,j)=0;

or1(i,j)=0;

or2(i,j)=0;

combine(i,j)=or(i,j)+or1(i,j)+or2(i,j);

end

end

end

imtool(combine);

I = imread(&#39;45.jpg&#39;);

%histogram

%CONVERT THE RGB IMAGE INTO HSV IMAGE FORMAT

HSV = rgb2hsv(I);

Heq = histeq(HSV(:,:,2));

HSV\_mod = HSV;

HSV\_mod(:,:,2) = Heq;

RGB = hsv2rgb(HSV\_mod);

% figure,subplot(1,2,1),imshow(I);title(&#39;Before Histogram Equalization&#39;);

%

% subplot(1,2,2),imshow(RGB);title(&#39;After Histogram

Equalization&#39;);

b = imadjust(RGB, [], [], 0.7);

% figure(2),subplot(1,3,1),imshow(b);title(&#39;After gamma

correction gamma= 0.7&#39;);

imtool(b);

b1=rgb2hsv(b);

ima=b1;

% imtool(ima);

% hue component

ima(:,:,1)=0;

%ima(:,:,1)=0;

% convert to rgb

ui=hsv2rgb(ima);

%red

y=ui(:,:,1);

imtool(y);

% figure(3),subplot(1,3,3),imshow(y);title(&#39;only r component&#39;);

%mask

s=6;

t=[0.01 0.5];

cani=edge(y,&#39;canny&#39;,t,s);

imtool(cani);

bwi0=im2bw(cani);

%using gray

grayim=rgb2gray(b);

% mask

s=6;

t=[0.01 0.5];

cani=edge(grayim,&#39;canny&#39;,t,s);

imtool(cani);

bwi=im2bw(cani);

%

%combining mask

[m n]=size(bwi);

or=b(:,:,1);

or1=b(:,:,2);

or2=b(:,:,3);

combine=b;

for i=1:m

for j=1:n

if bwi(i,j)==1

or(i,j)=1;

or1(i,j)=1;

or2(i,j)=1;

combine(i,j)=or(i,j)+or1(i,j)+or2(i,j);

end

end

end

imtool(combine);