**a.m**

function T = a

A=[];

for i = 0:18

A{i+1} = imread(num2str(i,'%03d.bmp'));

end

B = zeros(19,19);

for i = 1:19

for j = 1:19

if i ~= j

B(i,j) = sim(A{i}, A{j});

end

end

end

C = zeros(1,19);

for i = 1:19

m = max(B(i,:));

t = find(B(i,:)==m);

[t1, t2] = size(t);

if t2 > 1

C(i) = 0;

else

C(i) = t;

end

end

t = 0;

T = [];

TT = [];

for i = 1:19

[tt, t] = find(C == t);

T = [A{t}, T];

TT = [t TT];

end

imwrite(T, 'a.bmp');

imshow(T);

csvwrite('order\_1.txt',TT);

end

function result = sim(A, B)

tot = 0;

hit = 0;

for i = 1:1980

if A(i,72) < 255

tot = tot + 1;

if B(i,1) < 255

hit = hit + 1;

end

end

end

if tot == 0

result1 = 0;

else

result1 = hit/tot;

end

tot = 0;

hit = 0;

for i = 1:1980

if B(i,1) < 255

tot = tot + 1;

if A(i,72) < 255

hit = hit + 1;

end

end

end

if tot == 0

result2 = 0;

else

result2 = hit/tot;

end

result = (result1 + result2) / 2;

end