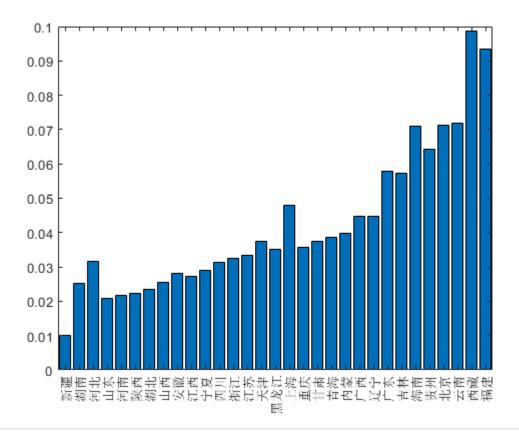
```
[file,path] = uigetfile({'*.xlsx';'*.xls'},'File Selector');
    filepath=strcat(path,file);
    Data = readtable(filepath);
```

警告: 表变量名称已修改为有效的 MATLAB 标识符。原始名称保存在 VariableDescriptions 属性中。

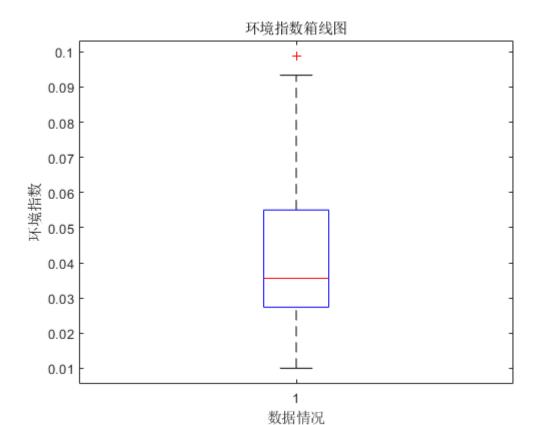
```
Place = Data(:,1);
Place =table2array(Place);
lY = Place;
Y = categorical(Place);
Y = reordercats(Y,Place);
Datasize=size(Data);
Data =Data(:,2:Datasize(2));
Data = table2array(Data);
X=Data;
msgbox("导入数据成功,正在计算,请稍后");
```



```
% 第二步: 判断是否需要正向化
[n,\sim] = size(X);
X = Min2Max(X);
% 第三步:对正向化后的矩阵进行标准化
Z = X . / repmat(sum(X.*X) .^ 0.5, n, 1);
%% 计用户判断是否需要增加权重
weight = Entropy_Method(Z);
%% 第四步: 计算与最大值的距离和最小值的距离, 并算出得分
D_P = sum([(Z - repmat(max(Z),n,1)) .^ 2] .* repmat(weight,n,1) ,2) .^ 0.5;
                                                                        % D-
D_N = sum([(Z - repmat(min(Z),n,1)) .^ 2] .* repmat(weight,n,1) ,2) .^ 0.5;
                                                                        % D.
S = D_N \cdot / (D_P + D_N);
                    % 未归一化的得分
% disp('最后的得分为:')
stand_S = S / sum(S) + 0.01;
figure;
bar(Y,stand_S);
```



boxplot(stand_S); title('环境指数箱线图') xlabel('数据情况') ylabel('环境指数')



```
[~,index] = sort(stand_S);
            meanstand_s = mean(stand_S);
            mean.Value = meanstand_s;
            lownumber = 0;
            for i = 1:n
                if stand_S(i)<=meanstand_s</pre>
                    lownumber =lownumber + 1;
                end
            end
            Value = num2str(lownumber);
            order = 1:n;
            order = flip(order);
            order =order';
            order = num2cell(order);
            nX=stand_S(index);
            nX = num2cell(nX);
            nY=lY(index);
            nY = cell(nY);
            XY = [nY nX order];
%
              XY = str2cell(XY);
            %
                           [~,index] = sort(stand_S);
            %
```