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EKSTRAKSI CIRI TEKSTUR

CITRA KULIT POHON

|  |  |  |  |  |  |  |  |
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| **NO** | **Gambar** | **Contras (Avg)** | **Corelation (Avg)** | **Energy (Avg)** | **Homogenity (Avg)** | **Avg (Energy +Homogeinity** | **Penge**  **lompokan** |
| 1 |  | 1.97795 | 0.655851 | 0.0403083 | 0.640904 | 0.340606 | Kasar |
| 2 |  | 1.73708 | 0.583068 | 0.048972 | 0.631568 | 0.34027 | Kasar |
| 3 |  | 1.91565 | 0.697702 | 0.0386511 | 0.635925 | 0.337288 | Kasar |
| 4 |  | 1.2397 | 0.818766 | 0.0475681 | 0.701243 | 0.374406 | Kasar |
| 5 |  | 1.31325 | 0.720083 | 0.0527361 | 0.683926 | 0.368331 | Kasar |
| 6 |  | 0.738884 | 0.816304 | 0.0715521 | 0.755773 | 0.413663 | Halus |
| 7 |  | 2.31369 | 0.630191 | 0.0423223 | 0.6161648 | 0.329235 | Kasar |
| 8 |  | 2.37511 | 0.632047 | 0.0400662 | 0.605358 | 0.322712 | Kasar |
| 9 |  | 0.842039 | 0.88697 | 0.0936083 | 0.783188 | 0.438398 | Halus |
| 10 |  | 1.14459 | 0.752372 | 0.0996559 | 0.729345 | 0.4145 | Halus |
| 11 |  | 2.33555 | 0.593677 | 0.0458669 | 0.61694 | 0.331404 | Kasar |
| 12 |  | 0.881332 | 0.849792 | 0.0691851 | 0.764884 | 0.417035 | Halus |

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| 13 |  | 1.93268 | 0.622649 | 0.0603782 | 0.658387 | 0.359383 | Kasar |
| 14 |  | 0.881332 | 0.849792 | 0.0691851 | 0.764884 | 0.417035 | Halus |
| 15 |  | 1.9991 | 0.69268 | 0.0845652 | 0.682881 | 0.383726 | Kasar |
| 16 |  | 2.16534 | 0.651072 | 0.039591 | 0.618082 | 0.328836 | Kasar |
| 17 |  | 1.17441 | 0.829328 | 0.0714069 | 0.727218 | 0.399312 | Kasar |
| 18 |  | 0.836654 | 0.892612 | 0.0763353 | 0.771588 | 0.423961 | Halus |
| 19 |  | 0.967971 | 0.814829 | 0.0647023 | 0.725017 | 0.39486 | Kasar |
| 20 |  | 2.31369 | 0.630191 | 0.0423223 | 0.616148 | 0.329235 | Kasar |

1. Kasar

Avg (Homogeneity + Energy) < 0,4

1. Halus

Avg (Homogeneity + Energy) >= 0,4 dan < 0,5

1. Teratur

Avg (Homogeneity + Energy) >= 0,5

Source Code

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| % --- Executes on button press in pushbutton1.  function pushbutton1\_Callback(hObject, eventdata, handles)  % hObject handle to pushbutton1 (see GCBO)  % eventdata reserved - to be defined in a future version of MATLAB  % handles structure with handles and user data (see GUIDATA)  % menampilkan menu open file  [nama\_file, nama\_path] = uigetfile('\*.jpg');  if ~isequal(nama\_file,0)  % membaca file citra  Img = im2double(imread(fullfile(nama\_path, nama\_file)));  % menampilkan citra pada axes 1  axes(handles.axes1)  imshow(Img)  % menyimpan variabel Img pada lokasi handles  handles.Img = Img;  guidata(hObject, handles)  else  % jika tidak ada file yang dipilih maka akan kembali  return  end  % --- Executes on button press in pushbutton2.  function pushbutton2\_Callback(hObject, eventdata, handles)  % hObject handle to pushbutton2 (see GCBO)  % eventdata reserved - to be defined in a future version of MATLAB  % handles structure with handles and user data (see GUIDATA)  % memanggil variabel Img, Img\_gray, & bw yang ada di lokasi handles  Img = handles.Img;  % konversi citra RGB menjadi grayscale  Img\_gray = rgb2gray(Img);  % ekstraksi ciri tekstur GLCM  GLCM = graycomatrix(Img\_gray,'Offset',[0 1; -1 1; -1 0; -1 -1]);  stats = graycoprops(GLCM,{'contrast','correlation','energy','homogeneity'});  Contrast = mean(stats.Contrast);  Correlation = mean(stats.Correlation);  Energy = mean(stats.Energy);  Homogeneity = mean(stats.Homogeneity);  set(handles.edit1,'string',Contrast );  set(handles.edit2,'string',Correlation);  set(handles.edit3,'string',Energy);  set(handles.edit4,'string',Homogeneity);  jumlah = (Homogeneity+Energy)/2;  set(handles.edit7,'string',jumlah);  if(jumlah < 0.4)  set(handles.edit5,'string','Kasar');  end  if(jumlah >= 0.4 && jumlah < 0.5)  set(handles.edit5,'string','Halus');  end  if(jumlah >= 0.5)  set(handles.edit5,'string','Teratur');  end;  function edit1\_Callback(hObject, eventdata, handles) |