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Kelas : B

EKTRAKSI CIRI UKURAN  
CITRA BETON

1. Data Citra Beton

|  |  |  |  |
| --- | --- | --- | --- |
| NO | Gambar | Luas Area | Parimater |
| 1 |  | 58733.4 | 3784 |
| 2 |  | 64331.8 | 1763.63 |
| 3 |  | 64367.3 | 2157.38 |
| 4 |  | 63726.4 | 1923.13 |
| 5 |  | 61631.9 | 5906.25 |
| 6 |  | 53086.5 | 13500.3 |
| 7 |  | 50826.3 | 14470.5 |
| 8 |  | 61517.4 | 6046.63 |
| 9 |  | 62311 | 3977.25 |
| 10 |  | 58360.1 | 7814 |
| 11 |  | 50393.3 | 11685 |
| 12 |  | 49740 | 8439.25 |
| 13 |  | 64605.1 | 1820.75 |
| 14 |  | 64253.8 | 2103.88 |
| 15 |  | 64350 | 2165 |
| 16 |  | 64207.9 | 1875.38 |
| 17 |  | 64888.9 | 1467.13 |
| 18 |  | 64000.8 | 2056.63 |
| 19 |  | 64460.4 | 1628.75 |
| 20 |  | 64512 | 1871 |

1. *Source Code* :

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| 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)  [nama\_file, nama\_path] = uigetfile({'\*.jpg;\*.bmp;\*.tif'}, 'membuka gambar'); %memilih gambar  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  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 yang ada di lokasi handles  Img = handles.Img;  % konversi citra RGB menjadi grayscale  b = rgb2gray(Img);  % konversi citra grayscale menjadi biner  level = graythresh(b);  c = imbinarize(b,level);  area = bwarea(c);  perim = bwperim(c);  perimeter = sum (sqrt(sum(area,2)));  set(handles.edit1,'string',area);  set(handles.edit2,'string',bwarea(perim)); |