**CODE OF PARKING SLOT DETECTION**

function varargout = untitled1(varargin)

% UNTITLED1 MATLAB code for untitled1.fig

% UNTITLED1, by itself, creates a new UNTITLED1 or raises the existing

% singleton\*.

% H = UNTITLED1 returns the handle to a new UNTITLED1 or the handle to

% the existing singleton\*.

% UNTITLED1('CALLBACK',hObject,eventData,handles,...) calls the local

% function named CALLBACK in UNTITLED1.M with the given input arguments.

% UNTITLED1('Property','Value',...) creates a new UNTITLED1 or raisesthe

% existing singleton\*. Starting from the left, property value pairs are

% applied to the GUI before untitled1\_OpeningFcn gets called. An

% unrecognized property name or invalid value makes property application

% stop. All inputs are passed to untitled1\_OpeningFcn via varargin.

% \*See GUI Options on GUIDE's Tools menu. Choose "GUI allows only one

% instance to run (singleton)".

% See also: GUIDE, GUIDATA, GUIHANDLES

% Edit the above text to modify the response to help untitled1

% Last Modified by GUIDE v2.5 10-Apr-2020 15:30:51

% Begin initialization code - DO NOT EDIT

gui\_Singleton = 1;

gui\_State = struct('gui\_Name', mfilename, ...

'gui\_Singleton', gui\_Singleton, ...

'gui\_OpeningFcn', @untitled1\_OpeningFcn, ...

'gui\_OutputFcn', @untitled1\_OutputFcn, ...

'gui\_LayoutFcn', [] , ...

'gui\_Callback', []);

if nargin && ischar(varargin{1})

gui\_State.gui\_Callback = str2func(varargin{1});

end

if nargout

[varargout{1:nargout}] = gui\_mainfcn(gui\_State, varargin{:});

else

gui\_mainfcn(gui\_State, varargin{:});

end

% End initialization code - DO NOT EDIT

% --- Executes just before untitled1 is made visible.

function untitled1\_OpeningFcn(hObject, eventdata, handles, varargin)

% This function has no output args, see OutputFcn.

% hObject handle to figure

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

% varargin command line arguments to untitled1 (see VARARGIN)

% Choose default command line output for untitled1

handles.output = hObject;

% Update handles structure

guidata(hObject, handles);

% UIWAIT makes untitled1 wait for user response (see UIRESUME)

% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.

function varargout = untitled1\_OutputFcn(hObject, eventdata, handles)

% varargout cell array for returning output args (see VARARGOUT);

% hObject handle to figure

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure

varargout{1} = handles.output;

% --- 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)

handles.output=hObject;

[a b]=uigetfile({'\*.\*'});

img=imread([b a]);

grayy=rgb2gray(img);

gr=graythresh(grayy);

handles.bw=im2bw(grayy,gr);

imshow(img,'Parent',handles.axes1);

guidata(hObject,handles);

% --- 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)

handles.output=hObject;

inverse\_binary=not(handles.bw);

[handles.L handles.Num\_object]=bwlabel(inverse\_binary);

set(handles.text2,'string',10-handles.Num\_object);

imshow(handles.L, 'parent',handles.axes2);

guidata(hObject,handles);