function varargout = GUI(varargin)

gui\_Singleton = 1;

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

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

'gui\_OpeningFcn', @GUI\_OpeningFcn, ...

'gui\_OutputFcn', @GUI\_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

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

clear img1;

clear img2;

i1 = 0;

i2 = 0;

handles.Feat\_Err = [ 0.006 0.8 0.04 6 [[0.0750 0.0750] [0.0750 0.0750]] 0.0065 ];

handles.output = hObject;

guidata(hObject, handles);

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

varargout{1} = handles.output;

function pushbutton2\_Callback(hObject, eventdata, handles)

[a b] = uigetfile('\*.\*','All Files');

img1=imread([b a]);

handles.img1 = img1;

guidata(hObject, handles);

imshow(img1,'Parent',handles.axes3);

function pushbutton3\_Callback(hObject, eventdata, handles)

[a b] = uigetfile('\*.\*','All Files');

img2=imread([b a]);

handles.img2 = img2;

guidata(hObject, handles);

imshow(img2,'Parent',handles.axes4);

function uipanel1\_CreateFcn(hObject, eventdata, handles)

function pushbutton4\_Callback(hObject, eventdata, handles)

isfield(handles, 'img1')

if isfield(handles, 'img1') && isfield(handles, 'img2')

[Feat1,imgp1] = featureExtraction(handles.img1);

imshow(imgp1,'Parent',handles.axes5);

[Feat2,imgp2] = featureExtraction(handles.img2);

imshow(imgp2,'Parent',handles.axes6);

Feat\_Err = handles.Feat\_Err

Feat1

Feat2

flag = 1;

for i=1:6

if abs(Feat2(i)-Feat1(i)) > Feat\_Err(i)

flag = 0;

break;

end

end

if flag

set(handles.text8,'string','Valid');

else

set(handles.text8,'string','Invalid');

end

else

errordlg('Please Select both the images');

set(handles.text8,'string','Not Processed');

end