

Lampiran


Lampiran 1. Sk Pembimbing Skripsi



SURAT KEPUTUSAN
REKTOR IBI DARMAJAYA
NOMOR : SK.0262/DMJ/DFIK/BAAK/V-17
Tentang
Dosen Pembimbing Skripsi
Program Studi S1 Teknik Informatika
REKTOR IBI DARMAJAYA

- Memperhatikan : 1. Bahwa dalam rangka usaha peningkatan mutu dan peranan IBI Darmajaya dalam melaksanakan Pendidikan Nasional perlu ditingkatkan kemampuan mahasiswa dalam Skripsi.
- Menimbang : 1. Bahwa untuk mengefektifkan tenaga pengajar dalam Skripsi mahasiswa perlu ditetapkan **Dosen Pembimbing Skripsi**.
- Mengingat : 1. UU No.20 Tahun 2003 Tentang Sistem Pendidikan Nasional.
2. Peraturan Pemerintah No.60 Tahun 2010 tentang Pendidikan Sekolah Tinggi
3. Surat Keputusan Menteri Pendidikan Nasional Republik Indonesia No.165/D/O/2008 tertanggal 20 Agustus 2008 tentang Perubahan Status STMIK-STIE Darmajaya menjadi Informatics and Business Institute (IBI) Darmajaya
4. STATUTA IBI Darmajaya
5. Surat Ketua Yayasan Pendidikan Alfian Husin No. IM.003/YP-AH/X-08 tentang Persetujuan Perubahan Struktur Organisasi
6. Surat Keputusan Rektor 0383/DMJ/REK/X-08 tentang Struktur Organisasi.
- Menetapkan**
- Pertama : Mengangkat nama-nama seperti tersebut dalam lampiran Surat Keputusan ini sebagai Dosen Pembimbing Skripsi mahasiswa Program Studi S1 Teknik Informatika.
- Kedua : Pembimbing Skripsi berkewajiban melaksanakan tugasnya sesuai dengan jadwal yang telah ditetapkan.
- Ketiga : Pembimbing Skripsi yang ditunjuk akan diberikan honorarium yang besarnya sesuai dengan ketentuan peraturan dan norma penggajian dan honorarium IBI Darmajaya.
- Keempat : Surat Keputusan ini berlaku sejak tanggal ditetapkan dan apabila dikemudian hari terdapat kekeliruan dalam keputusan ini, maka keputusan ini akan ditinjau kembali.

Ditetapkan di : Bandar Lampung
Pada tanggal : 22 Mei 2017
a.n. Rektor IBI Darmajaya,
Dekan Fakultas Ilmu Komputer


Dr. R.Z. Abdul Aziz, M.T.
NIK: 01050904



1. Kabiro. SDM
2. Ketua Jurusan S1 Teknik Informatika
3. Yang bersangkutan
4. Arsip

Lanjutan lampiran 1

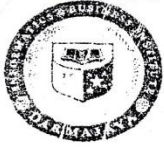
Lampiran : Surat Keputusan Rektor IBI Darmajaya
Nomor : SK. 0262/DWI/DFIK/BAK/V-17
Tanggal : 22 Agustus 2017
Perihal : Pembimbing Penulisan Skripsi
Program Studi Strata Satu (S1) Teknik Informatika

Judul Penulisan Skripsi dan Dosen Pembimbing
Program Studi Strata Satu (S1) Teknik Informatika

No.	NAMA	NPM	JUDUL	PEMBIMBING
1	Bobi Pranajaya	1211010042	Rancang Bangun Sistem Penentuan Kualitas Getah Karet Menggunakan Metode K-Means Clustering	Rionaldi Ali, M.TI



Lampiran 2. Form Konsultasi/Bimbingan Skripsi



Yayasan Pendidikan Alim Husein
INFORMATICS & BUSINESS INSTITUTE
DARMAJAYA
Bandar Lampung | D.K. SEMIK | STIL DARMAJAYA



BIRO ADMINISTRASI AKADEMIK KEMAHASISWAAN (BAAK)

FORM KONSULTASI/BIMBINGAN SKRIPSI/TUGAS AKHIR *)

N A M A : Bobi Prangky
 N P M : 1211010042
 PEMBIMBING I : Ricardji ALI, M.T.
 PEMBIMBING II :
 JUDUL LAPORAN : Pan Ceng Bangor Sistem Perenturan Kualitas Getah Karet Menggunakan Metode Kears... Clustering
 TANGGAL SK : 22 Mei 2017 s.d (6+2 bulan)

No	HARI/TANGGAL	HASIL KONSULTASI	PARAF
1	Jumat 28/4 2017	Bimbingan Proposal	<i>[Signature]</i>
2	Selasa 2/5 2017	Bimbingan seminar	<i>[Signature]</i>
3	Kamis 3/8 2017	Bab II, Bab III	<i>[Signature]</i>
4	Selasa 8/8 2017	Bab IV	<i>[Signature]</i>
5	Selasa 16/8 17	Bab IV Pengujian	<i>[Signature]</i>
6	Senin 2/8 2017	Bab I	<i>[Signature]</i>
7	Rabu 23/8 2017	Over All - OK	<i>[Signature]</i>
8	Jumat 25/8 2017	Ace sidang	<i>[Signature]</i>
9			
10			

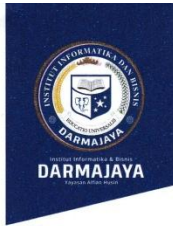
*) Coret yang tidak perlu

Bandar Lampung, 31 Agustus 2017
Ketua Jurusan

[Signature]
Yuni Akkasyah... S.kom... M.kom
NIK 00400002



Lampiran 3. Surat Izin Penelitian



Bandar Lampung, 13 Juli 2017

Nomor : Penelitian.006/DMJ/DEKAN/BAAK/VII-17
Lampiran : -
Perihal : Permohonan Izin Penelitian

Kepada Yth,
Kelompok Tani Taruna Mandiri

Di -
Desa Sidomulyo Kec. Negeri Katon Pesawaran

Dengan hormat,

Sehubungan dengan peraturan Akademik Informatics & Business Institute Darmajaya bahwa mahasiswa/i Strata Satu (S1) yang akan menyelesaikan studinya diwajibkan untuk memiliki pengalaman kerja dengan melaksanakan Penelitian dan membuat laporan yang waktunya disesuaikan dengan kalender Informatik & Business Institute (IBI) Darmajaya.

Untuk itu kami mohon kerja sama Bapak/Ibu agar kiranya dapat menerima mahasiswa/i untuk melakukan Penelitian, yang pelaksanaannya dimulai dari tanggal **14 s.d 30 Juli 2017** (selama dua minggu)

Adapun mahasiswa/i tersebut adalah :

Nama : **Bobi Pranajaya**
NPM : **1211010042**
Jurusan : **S1 Teknik Informatika**
Jenjang : **Strata Satu (S1)**

Demikian permohonan ini dibuat, atas perhatian dan kerjasama yang baik kami ucapkan terimakasih.



Tembusan:

1. Jurusan S1 Teknik Informatika
2. Arsip.

Lampiran 4 Source Code program

```
function varargout = kmeans1(varargin)
% KMEANS1 M-file for kmeans1.fig
%
%   KMEANS1, by itself, creates a new KMEANS1 or raises the existing
%   singleton*.
%
%
%   H = KMEANS1 returns the handle to a new KMEANS1 or the handle to
%   the existing singleton*.
%
%
%   KMEANS1('CALLBACK',hObject,eventData,handles,...) calls the local
%   function named CALLBACK in KMEANS1.M with the given input arguments.
%
%
%   KMEANS1('Property','Value',...) creates a new KMEANS1 or raises the
%   existing singleton*. Starting from the left, property value pairs are
%   applied to the GUI before kmeans1_OpeningFcn gets called. An
%   unrecognized property name or invalid value makes property application
%   stop. All inputs are passed to kmeans1_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 kmeans1
% Last Modified by GUIDE v2.5 16-Jan-2017 13:52:25
% Begin initialization code - DO NOT EDIT
```

```

gui_Singleton = 1;

gui_State = struct('gui_Name',    mfilename, ...
                  'gui_Singleton', gui_Singleton, ...
                  'gui_OpeningFcn', @kmeans1_OpeningFcn, ...
                  'gui_OutputFcn', @kmeans1_OutputFcn, ...
                  'gui_LayoutFcn', [] , ...
                  'gui_Callback', []);

if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargin
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

% End initialization code - DO NOT EDIT

% --- Executes just before kmeans1 is made visible.

function kmeans1_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 kmeans1 (see VARARGIN)

% Choose default command line output for kmeans1

```

```

handles.output = hObject;

axes(handles.axes13);

imshow('logo-dharmajaya-300x300.png')

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes kmeans1 wait for user response (see UIRESUME)

% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = kmeans1_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)
proyek=guidata(gcbo);
[namafile,direktori]=uigetfile({'*.jpg'; '*.bmp'; '*.png'; '*.tif'}, 'Buka Gambar');
i=imread(strcat(direktori,namafile));
set(proyek.figure1, 'CurrentAxes', proyek.axes1);
set(imshow(i));

```



```

set(proyek.axes1,'Userdata',i);
set(proyek.figure1,'Userdata',i);
% --- 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)
proyek=guidata(gcbo);
i=get(proyek.axes1,'Userdata');
cform = makecform('srgb2lab');
lab = applycform(i,cform);
ab = double(lab(:,2:3));
nrows = size(ab,1);
ncols = size(ab,2);
ab = reshape(ab,nrows*ncols,2);
nColors = 3;
[cluster_idx, cluster_center] = kmeans(ab,nColors,'distance','sqEuclidean', ...
    'Replicates',3);
pixel_labels = reshape(cluster_idx,nrows,ncols);
RGB = label2rgb(pixel_labels);
segmented_images = cell(1,3);
rgb_label = repmat(pixel_labels,[1 1 3]);
for k = 1:nColors
    color = i;
    color(rgb_label ~= k) = 0;

```

```

    segmented_images{k} = color;
set(proyek.figure1,'CurrentAxes',proyek.axes2);
set(imshow(lab));
set(proyek.figure1,'CurrentAxes',proyek.axes3);
set(imshow(RGB,[]));
set(proyek.figure1,'CurrentAxes',proyek.axes4);
set(imshow(segmented_images{k}));
end

function edit1_Callback(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of edit1 as text
%    str2double(get(hObject,'String')) returns contents of edit1 as a double
% --- Executes during object creation, after setting all properties.
function edit1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: edit controls usually have a white background on Windows.
%    See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

```

```

% --- Executes on button press in pushbutton3.

function pushbutton3_Callback(hObject, eventdata, handles)

% hObject    handle to pushbutton3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

proyek=guidata(gcbo);

i1=imread('c:\sample\bagus.jpg');
s1= imresize(i1,0.2,'bilinear');

J1=rgb2gray(i1);
t1=graythresh(J1);
a1=im2bw(J1,t1);

l1 = +a1;

m1 = [0 0 -1 0 0; 0 -1 -2 -1 0; -1 -2 16 -2 -1; 0 -1 -2 -1 0; 0 0 -1 0 0];
e1=conv2(l1,m1);

B1 = imresize (J1,0.1); % Citra binaryzation”
bw2=edge(e1,'log');

%c=bwlabel(B);bw1

%I1=imcrop(J);

[w h]=size(J1);
for i1=2:w-1
    for j1=2:h-1
        val=J1(i1,j1); scale=2.^[0 1 2;7 -inf 3;6 5 4];
        mat=[J1(i1-1,j1-1) J1(i1-1,j1) J1(i1-1,j1+1);J1(i1,j1-1) J1(i1,j1) J1(i1,j1+1);J1(i1+1,j1-1)
J1(i1+1,j1) J1(i1+1,j1+1)];

```

```

    mat=mat>=val; fin=mat.*scale; J1(i1,j1)=uint8(sum(sum(fin)));
end
end
pix2=bwarea(B1)/10^4 %menghitung jumlah piksel area
errorkolerasi=(pix2*0.05)/10^4
pix1=(pix2-errorkolerasi);
se1= strel('disk',10);
closebw = imclose(bw2,se1);
i=get(proyek.axes1,'Userdata');
s= imresize(i,0.2,'bilinear');
J=rgb2gray(i);
t=graythresh(J);
a=im2bw(J,t);
l = +a;
m = [0 0 -1 0 0; 0 -1 -2 -1 0; -1 -2 16 -2 -1; 0 -1 -2 -1 0; 0 0 -1 0 0];
e=conv2(l,m);
B = imresize (J,0.1); % Citra binaryzation”
bw1=edge(e,'log');
%c=bwlabel(B);bw1
%I1=imcrop(J);
[w h]=size(J);% coding lbp
for i=2:w-1
    for j=2:h-1
        val=J(i,j); scale=2.^[0 1 2;7 -inf 3;6 5 4];
        mat=[J(i-1,j-1) J(i-1,j) J(i-1,j+1);J(i,j-1) J(i,j) J(i,j+1);J(i+1,j-1) J(i+1,j) J(i+1,j+1)];
    end
end

```

```

        mat=mat>=val; fin=mat.*scale; J(i,j)=uint8(sum(sum(fin)));
    end
end
end
%coba imclose
se= strel('disk',10);
closebw = imclose(bw1,se);
%menghilangkan noise (10 pixel)
pix=bwarea(B)/(10^4)*10000;
hasil=pix;
set(proyek.axes1,'Userdata');
if pix<pix1,set(proyek.edit1,'String','Getah Karet Kualitas Tidak Bagus (kadar air di atas 30%')
else set(proyek.edit1,'String','Getah Karet Kualitas Bagus (kadar air di bawah 30%)'),end;
% --- Executes during object creation, after setting all properties.
function axes13_CreateFcn(hObject, eventdata, handles)
% hObject    handle to axes13 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called
% Hint: place code in OpeningFcn to populate axes13
% --- Executes on button press in pushbutton4.
function pushbutton4_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
cla(handles.axes3);
cla(handles.axes2);

```