

Contents

- Kommunikation mit Excel erstellen

```
clear all;  
clc;
```

Kommunikation mit Excel erstellen

```
h = actxserver ( 'Excel.Application' )  
hInt = h.interfaces  
hWBs = h.Workbooks
```

```
map = hWBs.Open( 'C:\Dokumente und Einstellungen\Daniel\Eigene Dateien\MATLAB\gomatlab\s
```

```
Spalte1 = h.Activesheet.get ( 'Range', 'A3:A6' );  
X_Values = Spalte1.Value;  
Spalte2 = h.Activesheet.get ( 'Range' , 'B3:B7' );  
Y_Values = Spalte2.Value;  
Spalte3 = h.Activesheet.get ( 'Range' , 'C3:C7' );  
Z1_Values = Spalte3.Value;  
Spalte4 = h.Activesheet.get ( 'Range' , 'D3:D7' );  
Z2_Values = Spalte4.Value;  
Spalte5 = h.Activesheet.get ( 'Range' , 'E3:E7' );  
Z3_Values = Spalte5.Value;  
Spalte6 = h.Activesheet.get ( 'Range' , 'F3:F7' );  
Z4_Values = Spalte6.Value;
```

```
x = cell2mat(X_Values')  
y = cell2mat(Y_Values')
```

```
%Die Zellenwerte von Excel in eine gesamt Matrix Z schreiben
```

```
Z1 = cell2mat(Z1_Values');  
Z2 = cell2mat(Z2_Values');  
Z3 = cell2mat(Z3_Values');  
Z4 = cell2mat(Z4_Values');  
Z = [Z1; Z2; Z3; Z4]'
```

```
[XX,YY] = meshgrid(x,y);  
xi = 70:1:130;  
yi = 0.8:0.1:2.1;  
[XI,YI] = meshgrid(xi,yi);  
ZI = interp2(XX,YY,Z,XI,YI,'cubic');  
mesh(XI,YI,ZI);
```

```
h.Quit
```

h.delete

h =

COM.Excel_Application

hInt =

'AppEvents'

hWBs =

Interface.Microsoft_Excel_11.0_Object_Library.Workbooks

x =

70 90 110 130

y =

2.1000 1.9000 1.4000 1.3000 0.8000

Z =

91	96	99	96
92	95	98	99
85	93	92	95
77	88	93	91
50	50	61	56

