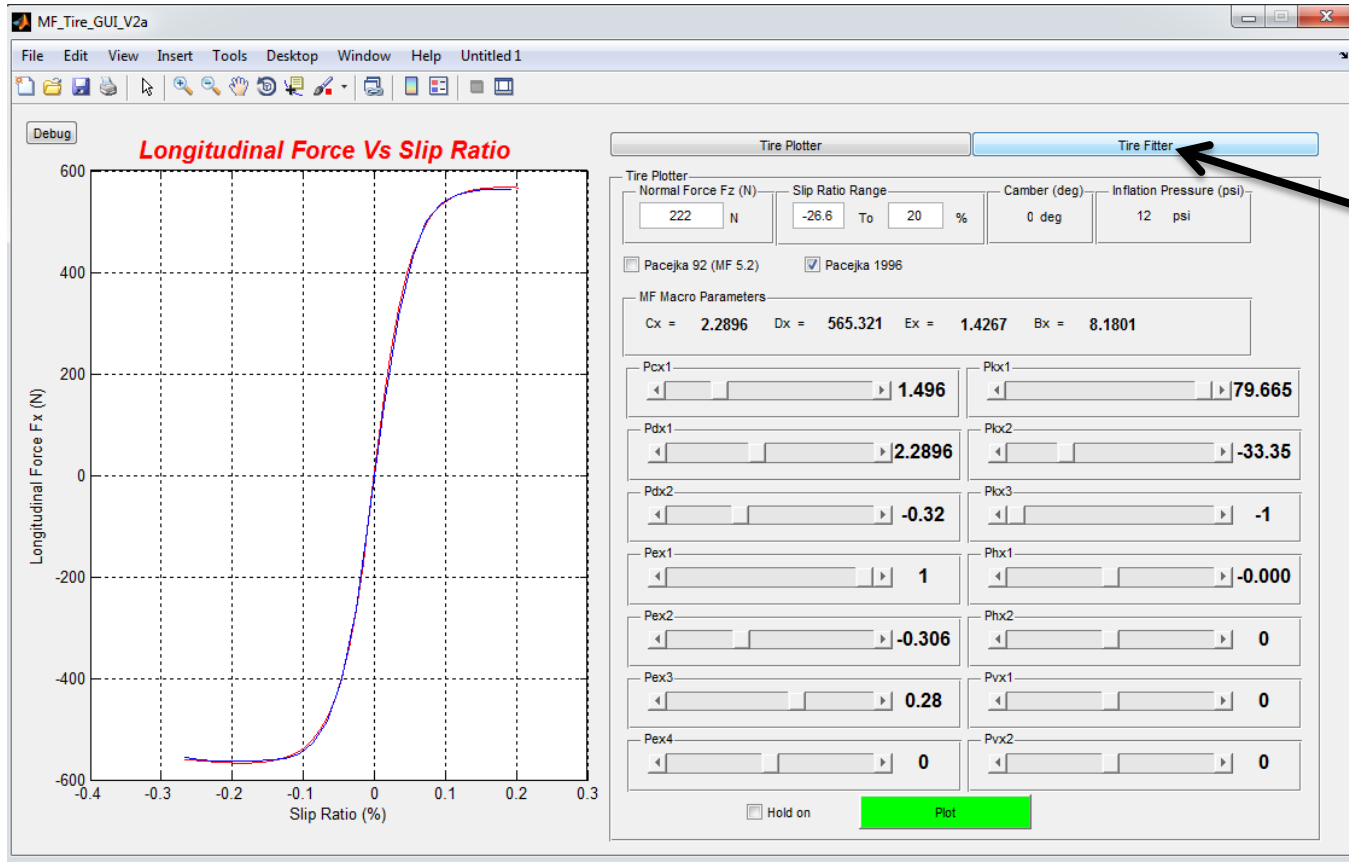


MF_Tire_GUI

Tire Fitting Tutorial

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Step 1



Select Tire Fitter
Pane

Step 2

MF_Tire_GUI_V2a

File Edit View Insert Tools Desktop Window Help Untitled 1

Debug

Longitudinal Force Vs Slip Ratio

Longitudinal Force F_x (N)

Slip Ratio (%)

Tire Filter

Camber (deg) 0 deg Inflation Pressure (psi) 12 psi

Import Measurement Data

D:\KaratMF_Tire_Fitting_GUMF_Tire_Plotter_GUI\ExampleMeasurementData.mat Load Measurement Data

☒ Pacejka 92 (MF 5.2) ☐ Pacejka 1996

☒ Plot fval during Optimization ☐ Save Output Parameter Set

Initial Design

☐ Import Tire Plotter Design

Fit Options

☒ Default Settings

ToDX 1e-3

ToIFun 1e-3

MaxIter 1e4

MaxFunEval 1e4

Start Tire Fitting

1 Browse for the Tire Longitudinal Force Measurement* Data

2 Load Measurement Data

3 Tick checkbox to save output of the optimization

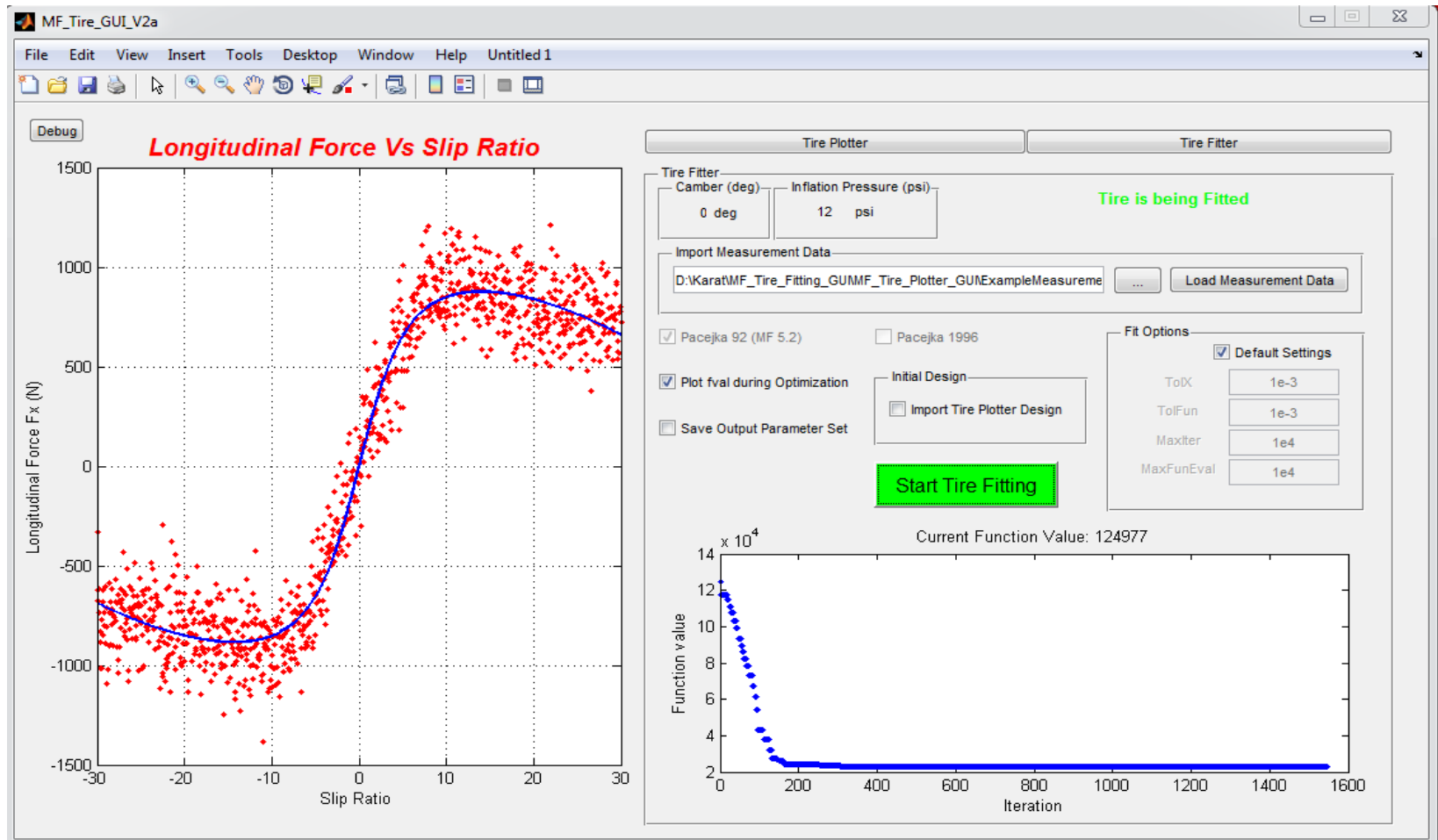
4 Start Tire Fitting**

* Measurement Data should have the same format as the Example
“ExampleMeasurementData.mat”

** At the moment the Tire Fitter is designed only to fit MF V5.2 parameters

Tire Fitting

Wait for the fitting process to complete



Play with the fitting options to get a better fit

Thank you

MF_Tire_GUI not working?

Please contact: gnanas@rhrk.uni-kl.de

I'll be pleased to hear your comments and feedback