

Installation of GPOPS-II

Below are a few steps to install the GPOPS-II package within MATLAB.

- 1) have a valid MATLAB software installed,
<https://www.mathworks.com/campaigns/products/trials.html>
- 2) download and unzip GPOPS-II software
<https://gpops2.cartloom.com/download/link/636d592269e45e33ef235f9a2928fc23>
- 3) download and unzip **adigator** package into GPOPS folder
<http://sourceforge.net/projects/adigator/>
- 4) setup path of adigator and GPOPS within MATLAB by run separately
startupadigator.m in **adigator** folder
gpopsMatlabPathSetup.m in GPOPS folder
- 5) download the following license file (gpops2License.p) into the **license** subfolder inside GPOPS folder:
<http://www.siue.edu/~juliu/cbms18/img/gpops2License.p>
- 6) run **savepath** to save all setup for future use
- 7) test the installation by run any examples in the examples subfolder in GPOPS folder:

for example, in **brachistochrone** subfolder, run

brachistochroneMain.m

If works OK, it should output sth like the following:

.....

EXIT: Optimal Solution Found.

Analysis of Mesh in Phase 1

Maximum Relative Error on Current Mesh in Phase 1 = 1.5277e-08

Mesh Error Tolerance IS satisfied in Phase 1

and then run

brachistochronePlot.m

it should produce two figures with curves, as shown in the following page

