**Instruction on the use of the model**

All the models are included in the “Four\_Wheels\_vehicle.mdl” Simulink file. To run the simulation and see the performance of the coordinated control system against a lane change trajectory, simply run “Vehicle\_Parameters.m” in MATLAB.

Please follow the following steps, so you would have a running model:

1. Run " Vehicle\_Parameters.m" till a message appears on the command window, that indicates successful run of the initial conditions.
2. Run " Four\_Wheels\_vehicle.mdl".
3. The most important dynamic features of the vehicle will be performed.
4. Enjoy interpreting the results

Note:

1. Vehicle parameters, such as vehicle mass, can also be changed in “Vehicle\_Parameters.m”.
2. the models are saved under MATLAB 2015b.