Readme File for Case Study 2

Four m-files make up the simulations for Case Study 2. To run the entire simulation study from end to end, ensure that there is a directory named New_Data in the directory where case_study_2_wrapper.m is saved. Once you have created such a directory, simply run the m-script case_study_2_wrapper.m which will establish simulation configurations and initial condition. Then it calls gen_traj_sensor_data.m to generate trajectory and sensor data. The generated trajectory and sensor data is used in by gnss_ins_EKF_2D.m in simulating a 2-D GNSS/INS loose integration. The m-script plot_EKF_results.m will display the results on graphs. All relevant data is saved during each run in a directory named New_Data. Ensure that the directory structure is compatible with the location of the directory gnss_ins_functions as it contains functions that are required by the integration algorithms.

Some of the plots generated by the OCTAVE version of the m-scripts may axes labels (and other texts) that may be in Greek letters.

For a more detailed description of theoretical aspects associated with Case Study 2, refer to documentation found on the book web page.