Optimal Smoothing Parameter for Lat Error Estimator for Simulator Mode 3 = 2.754229e-09

Optimal Smoothing Parameter for Speed Error Estimator for Simulator Mode 3 = 1.905461e-09

Optimal Smoothing Parameter for Max a\_y Estimator for Simulator Mode 3 = 1.905461e-09

Optimal Smoothing Parameter for Max a\_x Estimator for Simulator Mode 3 = 1.905461e-09

Elapsed time is 1.691254 seconds.

Elapsed time is 0.291994 seconds.

Optimal PID Gains from Cross-Entropy:

[2621.0572312190543, 9.467634828403352, 0.1818379738152615]

Optimal PID Gains from Hooke-Jeeves:

[2621.1598015946106, 9.367517798518568, 0.1598405321295465]

Elapsed time is 0.719447 seconds.

Elapsed time is 0.209099 seconds.

Optimal PID Gains from Cross-Entropy:

[3020.0524720176168, 8.76856469874156, 0.22013554791975953]

Optimal PID Gains from Hooke-Jeeves:

[3037.848998392924, 8.334941474821305, 0.3193974812084488]

Elapsed time is 2.789172 seconds.

Elapsed time is 0.428982 seconds.

Optimal PID Gains from Cross-Entropy:

[3100.0331432872645, 8.562923809670004, 0.17465192116217892]

Optimal PID Gains from Hooke-Jeeves:

[3100.000287825077, 8.599984135793486, 0.1599992472913518]