>> main\_opt\_v20

---------- START RUNNING: 10-Jun-2023 15:17:39 ----------

---------- INPUT USERS SETTING FOR OPTIMIZATION ----------

---------- PREPROCESS ----------

---------- START OPTIMIZATION ----------

\*\* START: Find x0 with bestfval < 0.05

\* Find x0: 1 times

Best Mean Stall

Iteration f-count f(x) f(x) Iterations

0 30 0.1215 NaN 0

1 60 0.1215 0.8304 0

2 90 0.1215 0.6568 1

3 120 0.1215 0.5451 2

4 150 0.1215 0.8145 3

5 180 0.1156 0.7076 0

6 210 0.1156 0.6808 1

7 240 0.1156 0.5655 2

8 270 0.1156 0.6693 3

9 300 0.08885 0.4278 0

10 330 0.04165 0.4065 0

Optimization stopped by a plot function or output function.'

\* Find x0: 584.4964 0.1448266 0.2511785

\* exitflag: -1

\*\* END: Find x0 with bestfval < 0.05

\*\*\* Find x0: 217 seconds

\*\* START: Find x with bestfval < 0.0001

\* Find x: 1 times

Max

Iter Func-count f(x) Constraint MeshSize Method

0 1 0.0263895 0.02039 1

1 176 5.09602e-05 0 0.009772 Update multipliers

Stop requested.

\* Find x: 624.3257 0.1156751 0.2723007

\* exitflag: -1

\*\* END: Find x

\*\*\* Find x: 302.8 seconds

OPT parameter: 624.3257 0.1156751 0.2723007

---------- SHOW OPTIMAL RESULTS ----------

Target muscle parameter:

624.3000 0.1157 0.2723

Optimal muscle parameter:

624.3257 0.1157 0.2723

Motion 1 joint angle prediction error: 7e-06

Motion 1 joint speed prediction error: 4.2e-05

Motion 2 joint angle prediction error: 2.3e-05

Motion 2 joint speed prediction error: 6e-05

---------- VALIDATE OPTIMAL RESULTS ----------

Validate motion joint angle prediction error: 0.0002

Validate motion joint speed prediction error: 0.0004

---------- END RUNNING: 10-Jun-2023 15:26:28 ----------