

DL Analysis Report

Summary

Header	Data
Date	2025-11-18 11:59:14
Model Name	D1_ALG_1.1.0
Training Dataset	data_loader_01_KFall

Dataset Information

No. of Subjects: 32 (Training: 26, Test: 6)
No. of Motions: 36

No. of Total files:

- Training
 - Falls: 1902
 - ADLs: 2222
- Test
 - Falls: 444
 - ADLs: 507

Motion Descriptions

No	Activity	Trials
1	Stand	1 trial (30s)
2	Stand, slowly bend at knees (full squat), tie shoe lace, and get up	1 trial (5 times)
3	Pick up an object from the floor	1 trial (5 times)
4	Gently jump (try to reach an object)	1 trial (5 times)
5	Stand, sit to the ground, wait a moment, and get up with normal speed	1 trial (5 times)
6	Walk normally with turn (4m)	1 trial (5 times)
7	Walk quickly with turn (4m)	1 trial (5 times)
8	Jog normally with turn (4m)	1 trial (5 times)
9	Jog quickly with turn (4m)	1 trial (5 times)
10	Stumble while walking	1 trial (5 times)
11	Sit on a chair	1 trial (30s)
12	Sit on the sofa (back is inclined to backward)	1 trial (30s)
13	Sit down to a chair normally, and get up from a chair normally	1 trial (5 times)
14	Sit down to a chair quickly, and get up from a chair quickly	1 trial (5 times)

15	Sit a moment, trying to get up, and collapse into a chair	1 trial (5 times)
16	Stand, sit to the sofa, and inclined the back to the support, and get up with normal speed	1 trial (5 times)
17	Lie on the bed	1 trial (30s)
18	Sit a moment, and lie down to the bed normally, wait a moment, and get up normally	1 trial (5 times)
19	Sit a moment, and lie down to the bed quickly, wait a moment, and get up quickly	1 trial (5 times)
20	Forward fall when trying to sit down	5 trials
21	Backward fall when trying to sit down	5 trials
22	lateral fall when trying to sit down	5 trials
23	Forward fall when trying to get up	5 trials
24	lateral fall when trying to get up	5 trials
25	Forward fall while sitting, caused by fainting	5 trials
26	lateral fall while sitting, caused by fainting	5 trials
27	Backward fall while sitting, caused by fainting	5 trials
28	Vertical(forward) fall while walking caused by fainting	5 trials
29	Fall while walking, with use of hands in a table to dampen fall, caused by fainting	5 trials
30	Forward fall while walking caused by a trip	5 trials
31	Forward fall while jogging caused by a trip	5 trials
32	Forward fall while walking caused by a slip	5 trials
33	Forward lateral fall while walking caused by a slip	5 trials
34	Backward fall while walking caused by a slip	5 trials
35	Walk upstairs and downstairs normally (5 steps)	1 trial (5 times)
36	Walk upstairs and downstairs quickly (5 steps)	1 trial (5 times)

Training Report

Settings

Trainer

```
{ "name": "trainer02",  
  "num_epochs": 500,  
  "batch_size": 512,  
  "learning_rate": 0.0005,  
  "fl_alpha": 0.8,  
  "num_iter_per_epoch": 60,  
  "validation_split": 0.2,  
  "verbose_epochs": 1,  
  "save_pickle": true,  
  "knowledge_distillation": true }
```

Callbacks

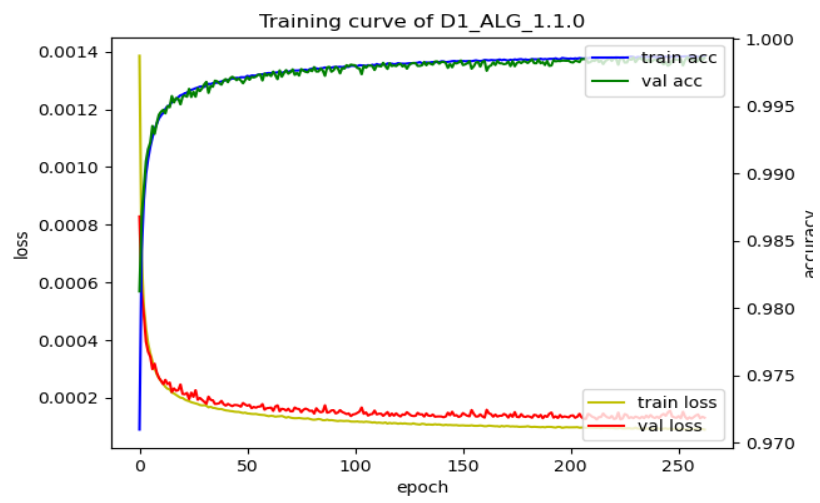
```
{ "checkpoint_monitor": "val_loss",  
  "checkpoint_mode": "min",  
  "checkpoint_save_best_only": true,  
  "checkpoint_save_weights_only": false,  
  "checkpoint_verbose": 1,  
  "earlystop_monitor": "val_loss",  
  "earlystop_restore_best_weights": true,  
  "patience": 50 }
```

Performance

Model: D1_ALG_1.1.0
Optimal Epochs: 213
Training Accuracy: 0.998568
Training Loss: 0.000096
Validation Accuracy: 0.998550
Validation Loss: 0.000125

FLOPs

16642



Model: "model"

Layer (type)	Output Shape	Param #
input_layer (InputLayer)	[(None, 25, 6)]	0
flatten (Flatten)	(None, 150)	0
d1 (Dense)	(None, 32)	4800
bn1 (BatchNormalization)	(None, 32)	128
relu1 (ReLU)	(None, 32)	0
d2 (Dense)	(None, 32)	1024
bn2 (BatchNormalization)	(None, 32)	128
relu2 (ReLU)	(None, 32)	0
d3 (Dense)	(None, 32)	1024
bn3 (BatchNormalization)	(None, 32)	128
relu3 (ReLU)	(None, 32)	0
d4 (Dense)	(None, 32)	1024
bn4 (BatchNormalization)	(None, 32)	128
relu4 (ReLU)	(None, 32)	0
sigmoid (Dense)	(None, 2)	66
Total params: 8,450		
Trainable params: 8,194		
Non-trainable params: 256		

Test Report

Settings

Tester

```
{ "name": "Tester02_th70_revimpact",  
  "batch_size": 1024,  
  "window_length": 25,  
  "step_percent": 96,  
  "fall_labeling_th": 10,  
  "binary_th": 0.7,  
  "voting_type": "consecutive",  
  "majority_voting": 2 ,  
  "test_list": [ 9, 16, 18, 20, 27, 38 ],  
  "full_test_list": [ 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28,  
    29, 30, 31, 32, 33, 34, 35, 36, 37, 38 ] }
```

Performance

Sensitivity: 100.00% (444/444)
Specificity: 93.29% (473/507)
Accuracy: 96.42% (917/951)
Lead Time: 452.16 ± 240.30 ms

Accuracy of each motions

Motion 01 - Accuracy: 100.00 (6/6)%
Motion 02 - Accuracy: 75.86 (22/29)%
Motion 03 - Accuracy: 100.00 (30/30)%
Motion 04 - Accuracy: 100.00 (30/30)%
Motion 05 - Accuracy: 76.67 (23/30)%
Motion 06 - Accuracy: 100.00 (28/28)%
Motion 07 - Accuracy: 96.43 (27/28)%
Motion 08 - Accuracy: 100.00 (30/30)%
Motion 09 - Accuracy: 93.10 (27/29)%
Motion 10 - Accuracy: 76.67 (23/30)%
Motion 11 - Accuracy: 100.00 (6/6)%
Motion 12 - Accuracy: 100.00 (6/6)%
Motion 13 - Accuracy: 100.00 (29/29)%
Motion 14 - Accuracy: 100.00 (29/29)%
Motion 15 - Accuracy: 66.67 (20/30)%
Motion 16 - Accuracy: 100.00 (29/29)%
Motion 17 - Accuracy: 100.00 (6/6)%
Motion 18 - Accuracy: 100.00 (26/26)%
Motion 19 - Accuracy: 100.00 (19/19)%
Motion 20 - Accuracy: 100.00 (30/30)%
Motion 21 - Accuracy: 100.00 (30/30)%
Motion 22 - Accuracy: 100.00 (30/30)%
Motion 23 - Accuracy: 100.00 (29/29)%
Motion 24 - Accuracy: 100.00 (30/30)%
Motion 25 - Accuracy: 100.00 (30/30)%
Motion 26 - Accuracy: 100.00 (30/30)%
Motion 27 - Accuracy: 100.00 (30/30)%
Motion 28 - Accuracy: 100.00 (29/29)%
Motion 29 - Accuracy: 100.00 (28/28)%

Motion 30 - Accuracy: 100.00 (29/29)%
Motion 31 - Accuracy: 100.00 (29/29)%
Motion 32 - Accuracy: 100.00 (30/30)%
Motion 33 - Accuracy: 100.00 (30/30)%
Motion 34 - Accuracy: 100.00 (30/30)%
Motion 35 - Accuracy: 100.00 (27/27)%
Motion 36 - Accuracy: 100.00 (30/30)%

Missed files - Subjects

Subject 09 missed files: 6 ['S09T05R02', 'S09T05R03', 'S09T05R05', 'S09T09R04', 'S09T15R02', 'S09T15R05']

Subject 16 missed files: 8 ['S16T02R03', 'S16T05R03', 'S16T09R02', 'S16T10R02', 'S16T10R03', 'S16T15R01', 'S16T15R02', 'S16T15R05']

Subject 18 missed files: 2 ['S18T02R01', 'S18T07R04']

Subject 20 missed files: 7 ['S20T02R02', 'S20T02R05', 'S20T10R01', 'S20T10R02', 'S20T10R04', 'S20T10R05', 'S20T15R01']

Subject 27 missed files: 7 ['S27T02R03', 'S27T02R05', 'S27T05R05', 'S27T15R01', 'S27T15R03', 'S27T15R04', 'S27T15R05']

Subject 38 missed files: 4 ['S38T02R04', 'S38T05R02', 'S38T05R04', 'S38T10R01']

Missed files - Class

Missed Falls: 0 []

Missed ADLs: 34 ['S09T05R02', 'S09T05R03', 'S09T05R05', 'S09T09R04', 'S09T15R02', 'S09T15R05', 'S16T02R03', 'S16T05R03', 'S16T09R02', 'S16T10R02', 'S16T10R03', 'S16T15R01', 'S16T15R02', 'S16T15R05', 'S18T02R01', 'S18T07R04', 'S20T02R02', 'S20T02R05', 'S20T10R01', 'S20T10R02', 'S20T10R04', 'S20T10R05', 'S20T15R01', 'S27T02R03', 'S27T02R05', 'S27T05R05', 'S27T15R01', 'S27T15R03', 'S27T15R04', 'S27T15R05', 'S38T02R04', 'S38T05R02', 'S38T05R04', 'S38T10R01']

Lead time of each motions

Motion 20 - Lead time: 566.67 ± 315.99 ms
Motion 21 - Lead time: 236.00 ± 111.04 ms
Motion 22 - Lead time: 440.00 ± 265.43 ms
Motion 23 - Lead time: 603.45 ± 181.19 ms
Motion 24 - Lead time: 553.33 ± 191.02 ms
Motion 25 - Lead time: 483.33 ± 254.30 ms
Motion 26 - Lead time: 424.67 ± 146.21 ms
Motion 27 - Lead time: 413.33 ± 79.55 ms
Motion 28 - Lead time: 496.55 ± 114.96 ms
Motion 29 - Lead time: 530.00 ± 264.22 ms
Motion 30 - Lead time: 459.31 ± 144.46 ms
Motion 31 - Lead time: 383.45 ± 130.05 ms
Motion 32 - Lead time: 358.00 ± 187.78 ms
Motion 33 - Lead time: 332.67 ± 117.92 ms
Motion 34 - Lead time: 511.33 ± 461.90 ms

Distribution of Lead time

Group1(~100ms): 13 ['S09T21R05(20.0 ms)', 'S20T21R03(0.0 ms)', 'S27T22R01(20.0 ms)', 'S38T22R04(60.0 ms)', 'S09T24R03(80.0 ms)', 'S09T25R03(-60.0 ms)', 'S16T25R01(60.0 ms)', 'S16T30R05(60.0 ms)', 'S16T32R02(80.0 ms)', 'S16T32R03(-60.0 ms)', 'S16T32R04(0.0 ms)', 'S18T33R04(60.0 ms)', 'S16T34R02(60.0 ms)']

Group2(100~150ms): 11 ['S16T21R02(140.0 ms)', 'S18T21R05(120.0 ms)', 'S20T21R01(120.0 ms)', 'S20T21R02(140.0 ms)', 'S20T21R05(140.0 ms)', 'S09T25R02(120.0 ms)', 'S16T25R03(120.0 ms)', 'S27T29R01(120.0 ms)', 'S20T32R03(140.0 ms)', 'S38T33R03(120.0 ms)', 'S38T33R04(140.0 ms)']

Group3(150~200ms): 15 ['S18T21R01(160.0 ms)', 'S18T21R02(180.0 ms)', 'S20T21R04(180.0 ms)', 'S09T22R02(160.0 ms)', 'S20T22R02(160.0 ms)', 'S20T22R03(180.0 ms)', 'S38T24R01(180.0 ms)', 'S09T26R04(160.0 ms)', 'S38T26R01(180.0 ms)', 'S18T27R01(180.0 ms)', 'S20T31R03(160.0 ms)', 'S20T33R02(160.0 ms)', 'S38T33R05(180.0 ms)', 'S09T34R02(160.0 ms)', 'S38T34R05(180.0 ms)']

Group4(200ms~): 405 ['S09T20R02(320.0 ms)', 'S09T20R03(300.0 ms)', 'S09T20R04(240.0 ms)', 'S09T20R05(340.0 ms)', 'S09T20R06(1900.0 ms)', 'S16T20R01(300.0 ms)', 'S16T20R02(480.0 ms)', 'S16T20R03(400.0 ms)', 'S16T20R04(360.0 ms)', 'S16T20R05(320.0 ms)', 'S18T20R01(780.0 ms)', 'S18T20R02(480.0 ms)', 'S18T20R03(360.0 ms)', 'S18T20R04(880.0 ms)', 'S18T20R05(280.0 ms)', 'S20T20R01(800.0 ms)', 'S20T20R02(480.0 ms)', 'S20T20R03(500.0 ms)', 'S20T20R04(500.0 ms)', 'S20T20R05(500.0 ms)', 'S27T20R01(360.0 ms)', 'S27T20R02(500.0 ms)', 'S27T20R03(640.0 ms)', 'S27T20R04(720.0 ms)', 'S27T20R05(580.0 ms)', 'S38T20R01(560.0 ms)', 'S38T20R02(540.0 ms)', 'S38T20R03(900.0 ms)', 'S38T20R04(720.0 ms)', 'S38T20R05(960.0 ms)', 'S09T21R01(320.0 ms)', 'S09T21R02(240.0 ms)', 'S09T21R03(200.0 ms)', 'S09T21R04(240.0 ms)', 'S16T21R01(500.0 ms)', 'S16T21R03(260.0 ms)', 'S16T21R04(400.0 ms)', 'S16T21R05(380.0 ms)', 'S16T21R06(360.0 ms)', 'S18T21R03(220.0 ms)', 'S18T21R04(200.0 ms)', 'S27T21R01(280.0 ms)', 'S27T21R02(440.0 ms)', 'S27T21R03(320.0 ms)', 'S27T21R05(240.0 ms)', 'S38T21R01(300.0 ms)', 'S38T21R02(220.0 ms)', 'S38T21R03(280.0 ms)', 'S38T21R04(220.0 ms)', 'S38T21R05(260.0 ms)', 'S09T22R01(880.0 ms)', 'S09T22R03(1020.0 ms)', 'S09T22R04(760.0 ms)', 'S09T22R05(600.0 ms)', 'S16T22R01(440.0 ms)', 'S16T22R02(460.0 ms)', 'S16T22R03(460.0 ms)', 'S16T22R04(260.0 ms)', 'S16T22R05(560.0 ms)', 'S18T22R01(400.0 ms)', 'S18T22R02(420.0 ms)', 'S18T22R03(740.0 ms)', 'S18T22R04(360.0 ms)', 'S18T22R05(820.0 ms)', 'S20T22R01(280.0 ms)', 'S20T22R04(260.0 ms)', 'S20T22R05(300.0 ms)', 'S20T22R06(260.0 ms)', 'S27T22R03(340.0 ms)', 'S27T22R04(1120.0 ms)', 'S27T22R05(340.0 ms)', 'S38T22R01(420.0 ms)', 'S38T22R02(440.0 ms)', 'S38T22R03(400.0 ms)', 'S38T22R05(280.0 ms)', 'S09T23R01(780.0 ms)', 'S09T23R02(820.0 ms)', 'S09T23R03(820.0 ms)', 'S09T23R04(780.0 ms)', 'S09T23R05(860.0 ms)', 'S16T23R01(560.0 ms)', 'S16T23R02(440.0 ms)', 'S16T23R03(260.0 ms)', 'S16T23R04(360.0 ms)', 'S16T23R05(520.0 ms)', 'S18T23R01(900.0 ms)']

ms)', 'S18T23R02(600.0 ms)', 'S18T23R03(680.0 ms)', 'S18T23R04(760.0 ms)', 'S18T23R05(580.0 ms)', 'S20T23R01(660.0 ms)', 'S20T23R02(640.0 ms)', 'S20T23R03(740.0 ms)', 'S20T23R04(700.0 ms)', 'S20T23R05(680.0 ms)', 'S27T23R01(420.0 ms)', 'S27T23R02(500.0 ms)', 'S27T23R03(720.0 ms)', 'S27T23R04(700.0 ms)', 'S38T23R01(200.0 ms)', 'S38T23R02(580.0 ms)', 'S38T23R03(500.0 ms)', 'S38T23R04(300.0 ms)', 'S38T23R05(440.0 ms)', 'S09T24R01(640.0 ms)', 'S09T24R02(580.0 ms)', 'S09T24R04(660.0 ms)', 'S09T24R05(500.0 ms)', 'S16T24R01(640.0 ms)', 'S16T24R02(620.0 ms)', 'S16T24R03(680.0 ms)', 'S16T24R04(660.0 ms)', 'S16T24R05(540.0 ms)', 'S18T24R01(680.0 ms)', 'S18T24R02(700.0 ms)', 'S18T24R03(700.0 ms)', 'S18T24R04(620.0 ms)', 'S18T24R05(680.0 ms)', 'S20T24R01(700.0 ms)', 'S20T24R02(740.0 ms)', 'S20T24R03(700.0 ms)', 'S20T24R04(780.0 ms)', 'S20T24R05(920.0 ms)', 'S27T24R01(560.0 ms)', 'S27T24R02(480.0 ms)', 'S27T24R03(480.0 ms)', 'S27T24R04(500.0 ms)', 'S27T24R05(400.0 ms)', 'S38T24R02(240.0 ms)', 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'S18T31R03(580.0 ms)', 'S18T31R04(340.0 ms)', 'S18T31R05(420.0 ms)', 'S20T31R01(240.0 ms)',
'S20T31R02(260.0 ms)', 'S20T31R05(520.0 ms)', 'S27T31R01(320.0 ms)', 'S27T31R02(400.0 ms)',
'S27T31R03(300.0 ms)', 'S27T31R04(480.0 ms)', 'S27T31R05(300.0 ms)', 'S38T31R01(420.0 ms)',
'S38T31R02(400.0 ms)', 'S38T31R03(420.0 ms)', 'S38T31R04(500.0 ms)', 'S38T31R05(580.0 ms)',
'S09T32R01(340.0 ms)', 'S09T32R02(300.0 ms)', 'S09T32R03(320.0 ms)', 'S09T32R04(600.0 ms)',
'S09T32R05(580.0 ms)', 'S16T32R01(320.0 ms)', 'S16T32R05(460.0 ms)', 'S18T32R01(400.0 ms)',
'S18T32R02(460.0 ms)', 'S18T32R03(340.0 ms)', 'S18T32R04(380.0 ms)', 'S18T32R05(300.0 ms)',
'S20T32R01(340.0 ms)', 'S20T32R02(260.0 ms)', 'S20T32R04(400.0 ms)', 'S20T32R05(400.0 ms)',
'S27T32R01(260.0 ms)', 'S27T32R02(300.0 ms)', 'S27T32R03(640.0 ms)', 'S27T32R04(580.0 ms)',
'S27T32R05(920.0 ms)', 'S38T32R01(400.0 ms)', 'S38T32R02(380.0 ms)', 'S38T32R03(320.0 ms)',
'S38T32R04(240.0 ms)', 'S38T32R05(340.0 ms)', 'S09T33R01(500.0 ms)', 'S09T33R02(500.0 ms)',
'S09T33R03(320.0 ms)', 'S09T33R04(460.0 ms)', 'S09T33R05(460.0 ms)', 'S16T33R01(440.0 ms)',
'S16T33R02(420.0 ms)', 'S16T33R03(440.0 ms)', 'S16T33R04(380.0 ms)', 'S16T33R05(400.0 ms)',
'S18T33R01(440.0 ms)', 'S18T33R02(440.0 ms)', 'S18T33R03(480.0 ms)', 'S18T33R05(300.0 ms)',
'S20T33R01(300.0 ms)', 'S20T33R03(320.0 ms)', 'S20T33R04(340.0 ms)', 'S20T33R05(220.0 ms)',
'S27T33R01(280.0 ms)', 'S27T33R02(300.0 ms)', 'S27T33R03(400.0 ms)', 'S27T33R04(360.0 ms)',
'S27T33R05(280.0 ms)', 'S38T33R01(240.0 ms)', 'S38T33R02(300.0 ms)', 'S09T34R01(440.0 ms)',
'S09T34R03(680.0 ms)', 'S09T34R04(640.0 ms)', 'S09T34R05(560.0 ms)', 'S16T34R01(400.0 ms)',
'S16T34R03(300.0 ms)', 'S16T34R04(1360.0 ms)', 'S16T34R05(320.0 ms)', 'S18T34R01(420.0
ms)', 'S18T34R02(300.0 ms)', 'S18T34R03(1340.0 ms)', 'S18T34R04(2500.0 ms)',
'S18T34R05(580.0 ms)', 'S20T34R01(400.0 ms)', 'S20T34R02(300.0 ms)', 'S20T34R03(400.0 ms)',
'S20T34R04(500.0 ms)', 'S20T34R05(520.0 ms)', 'S27T34R01(280.0 ms)', 'S27T34R02(380.0 ms)',
'S27T34R03(260.0 ms)', 'S27T34R04(360.0 ms)', 'S27T34R05(340.0 ms)', 'S38T34R01(420.0 ms)',
'S38T34R02(320.0 ms)', 'S38T34R03(400.0 ms)', 'S38T34R04(220.0 ms)']

Graph of missed files

Full Performance

Sensitivity: 100.00% (2344/2344)

Specificity: 98.75% (2695/2729)

Accuracy: 99.33% (5039/5073)

Lead Time: 476.86 ± 256.28 ms

Accuracy of each motions

Motion 01 - Accuracy: 100.00 (32/32)%

Motion 02 - Accuracy: 95.54 (150/157)%

Motion 03 - Accuracy: 100.00 (157/157)%

Motion 04 - Accuracy: 100.00 (160/160)%

Motion 05 - Accuracy: 95.51 (149/156)%

Motion 06 - Accuracy: 100.00 (151/151)%

Motion 07 - Accuracy: 99.35 (153/154)%

Motion 08 - Accuracy: 100.00 (156/156)%

Motion 09 - Accuracy: 98.68 (149/151)%

Motion 10 - Accuracy: 95.60 (152/159)%

Motion 11 - Accuracy: 100.00 (32/32)%

Motion 12 - Accuracy: 100.00 (32/32)%

Motion 13 - Accuracy: 100.00 (149/149)%

Motion 14 - Accuracy: 100.00 (155/155)%

Motion 15 - Accuracy: 93.63 (147/157)%

Motion 16 - Accuracy: 100.00 (152/152)%

Motion 17 - Accuracy: 100.00 (32/32)%

Motion 18 - Accuracy: 100.00 (152/152)%

Motion 19 - Accuracy: 100.00 (149/149)%

Motion 20 - Accuracy: 100.00 (159/159)%

Motion 21 - Accuracy: 100.00 (161/161)%

Motion 22 - Accuracy: 100.00 (161/161)%

Motion 23 - Accuracy: 100.00 (155/155)%

Motion 24 - Accuracy: 100.00 (157/157)%

Motion 25 - Accuracy: 100.00 (157/157)%

Motion 26 - Accuracy: 100.00 (155/155)%

Motion 27 - Accuracy: 100.00 (158/158)%

Motion 28 - Accuracy: 100.00 (154/154)%

Motion 29 - Accuracy: 100.00 (152/152)%

Motion 30 - Accuracy: 100.00 (153/153)%

Motion 31 - Accuracy: 100.00 (150/150)%

Motion 32 - Accuracy: 100.00 (160/160)%

Motion 33 - Accuracy: 100.00 (158/158)%

Motion 34 - Accuracy: 100.00 (154/154)%

Motion 35 - Accuracy: 100.00 (137/137)%

Motion 36 - Accuracy: 100.00 (149/149)%

Missed files - Subjects

Subject 06 missed files: 0 []
Subject 07 missed files: 0 []
Subject 08 missed files: 0 []
Subject 09 missed files: 6 ['S09T05R02', 'S09T05R03', 'S09T05R05', 'S09T09R04', 'S09T15R02', 'S09T15R05']
Subject 10 missed files: 0 []
Subject 11 missed files: 0 []
Subject 12 missed files: 0 []
Subject 13 missed files: 0 []
Subject 14 missed files: 0 []
Subject 15 missed files: 0 []
Subject 16 missed files: 8 ['S16T02R03', 'S16T05R03', 'S16T09R02', 'S16T10R02', 'S16T10R03', 'S16T15R01', 'S16T15R02', 'S16T15R05']
Subject 17 missed files: 0 []
Subject 18 missed files: 2 ['S18T02R01', 'S18T07R04']
Subject 19 missed files: 0 []
Subject 20 missed files: 7 ['S20T02R02', 'S20T02R05', 'S20T10R01', 'S20T10R02', 'S20T10R04', 'S20T10R05', 'S20T15R01']
Subject 21 missed files: 0 []
Subject 22 missed files: 0 []
Subject 23 missed files: 0 []
Subject 24 missed files: 0 []
Subject 25 missed files: 0 []
Subject 26 missed files: 0 []
Subject 27 missed files: 7 ['S27T02R03', 'S27T02R05', 'S27T05R05', 'S27T15R01', 'S27T15R03', 'S27T15R04', 'S27T15R05']
Subject 28 missed files: 0 []
Subject 29 missed files: 0 []
Subject 30 missed files: 0 []
Subject 31 missed files: 0 []
Subject 32 missed files: 0 []
Subject 33 missed files: 0 []
Subject 34 missed files: 0 []
Subject 35 missed files: 0 []
Subject 36 missed files: 0 []
Subject 37 missed files: 0 []
Subject 38 missed files: 4 ['S38T02R04', 'S38T05R02', 'S38T05R04', 'S38T10R01']

Missed files - Class

Missed Falls: 0 []
Missed ADLs: 34 ['S09T05R02', 'S09T05R03', 'S09T05R05', 'S09T09R04', 'S09T15R02', 'S09T15R05', 'S16T02R03', 'S16T05R03', 'S16T09R02', 'S16T10R02', 'S16T10R03', 'S16T15R01', 'S16T15R02', 'S16T15R05', 'S18T02R01', 'S18T07R04', 'S20T02R02', 'S20T02R05', 'S20T10R01', 'S20T10R02', 'S20T10R04', 'S20T10R05', 'S20T15R01', 'S27T02R03', 'S27T02R05', 'S27T05R05', 'S27T15R01', 'S27T15R03', 'S27T15R04', 'S27T15R05', 'S38T02R04', 'S38T05R02', 'S38T05R04', 'S38T10R01']

Lead time of each motions

Motion 20 - Lead time: 618.87 ± 261.17 ms
Motion 21 - Lead time: 223.11 ± 117.23 ms
Motion 22 - Lead time: 520.50 ± 259.07 ms
Motion 23 - Lead time: 648.90 ± 195.95 ms
Motion 24 - Lead time: 551.72 ± 195.26 ms
Motion 25 - Lead time: 563.18 ± 184.29 ms
Motion 26 - Lead time: 533.55 ± 162.19 ms
Motion 27 - Lead time: 410.76 ± 122.19 ms
Motion 28 - Lead time: 471.17 ± 117.11 ms
Motion 29 - Lead time: 498.82 ± 249.60 ms
Motion 30 - Lead time: 402.09 ± 124.14 ms
Motion 31 - Lead time: 346.93 ± 194.28 ms
Motion 32 - Lead time: 381.00 ± 141.52 ms
Motion 33 - Lead time: 369.24 ± 139.76 ms
Motion 34 - Lead time: 618.05 ± 563.82 ms

Distribution of Lead time

Group1(~100ms): 45 ['S06T21R01(0.0 ms)', 'S08T21R01(0.0 ms)', 'S08T21R02(40.0 ms)', 'S09T21R05(20.0 ms)', 'S11T21R01(-200.0 ms)', 'S11T21R04(60.0 ms)', 'S12T21R03(0.0 ms)', 'S13T21R02(60.0 ms)', 'S14T21R05(40.0 ms)', 'S15T21R05(60.0 ms)', 'S17T21R04(80.0 ms)', 'S19T21R04(60.0 ms)', 'S19T21R05(-40.0 ms)', 'S20T21R03(0.0 ms)', 'S21T21R03(40.0 ms)', 'S25T21R04(40.0 ms)', 'S25T21R05(60.0 ms)', 'S26T21R01(60.0 ms)', 'S26T21R02(80.0 ms)', 'S27T22R01(20.0 ms)', 'S38T22R04(60.0 ms)', 'S09T24R03(80.0 ms)', 'S09T25R03(-60.0 ms)', 'S16T25R01(60.0 ms)', 'S06T27R01(60.0 ms)', 'S06T27R05(-100.0 ms)', 'S07T30R06(60.0 ms)', 'S15T30R04(80.0 ms)', 'S16T30R05(60.0 ms)', 'S19T30R04(40.0 ms)', 'S15T31R02(20.0 ms)', 'S17T31R01(-100.0 ms)', 'S22T31R02(-60.0 ms)', 'S22T31R03(0.0 ms)', 'S25T31R04(80.0 ms)', 'S31T31R01(80.0 ms)', 'S32T31R03(-60.0 ms)', 'S32T31R05(60.0 ms)', 'S16T32R02(80.0 ms)', 'S16T32R03(-60.0 ms)', 'S16T32R04(0.0 ms)', 'S24T32R02(80.0 ms)', 'S24T32R03(80.0 ms)', 'S18T33R04(60.0 ms)', 'S16T34R02(60.0 ms)']

Group2(100~150ms): 47 ['S11T21R02(140.0 ms)', 'S11T21R03(100.0 ms)', 'S11T21R05(120.0 ms)', 'S12T21R01(120.0 ms)', 'S12T21R02(100.0 ms)', 'S13T21R04(140.0 ms)', 'S15T21R02(140.0 ms)', 'S16T21R02(140.0 ms)', 'S17T21R01(120.0 ms)', 'S17T21R02(140.0 ms)', 'S17T21R03(140.0 ms)', 'S18T21R05(120.0 ms)', 'S19T21R03(100.0 ms)', 'S19T21R06(100.0 ms)', 'S20T21R01(120.0 ms)', 'S20T21R02(140.0 ms)', 'S20T21R05(140.0 ms)', 'S21T21R04(140.0 ms)', 'S22T21R05(120.0 ms)', 'S26T21R03(100.0 ms)', 'S33T21R01(120.0 ms)', 'S09T25R02(120.0 ms)', 'S16T25R03(120.0 ms)', 'S06T27R04(120.0 ms)', 'S11T27R01(140.0 ms)', 'S21T27R01(100.0 ms)', 'S21T27R02(140.0 ms)', 'S21T27R04(100.0 ms)', 'S07T28R04(100.0 ms)', 'S33T28R04(140.0 ms)', 'S27T29R01(120.0 ms)', 'S26T30R02(120.0 ms)', 'S26T30R03(100.0 ms)', 'S37T30R04(140.0 ms)', 'S10T31R03(140.0 ms)', 'S13T31R02(140.0 ms)', 'S13T31R03(140.0 ms)', 'S15T31R03(100.0 ms)', 'S33T31R04(100.0 ms)', 'S36T31R02(100.0 ms)', 'S15T32R04(140.0 ms)', 'S20T32R03(140.0 ms)', 'S31T32R03(120.0 ms)', 'S14T33R02(100.0 ms)', 'S38T33R03(120.0 ms)', 'S38T33R04(140.0 ms)', 'S23T34R05(100.0 ms)']

Group3(150~200ms): 57 ['S06T21R04(180.0 ms)', 'S07T21R03(180.0 ms)', 'S07T21R04(160.0 ms)', 'S08T21R03(160.0 ms)', 'S08T21R04(160.0 ms)', 'S08T21R05(180.0 ms)', 'S13T21R01(180.0 ms)', 'S13T21R03(160.0 ms)', 'S14T21R01(160.0 ms)', 'S15T21R03(180.0 ms)', 'S17T21R05(180.0 ms)', 'S18T21R01(160.0 ms)', 'S18T21R02(180.0 ms)', 'S19T21R01(160.0 ms)', 'S20T21R04(180.0 ms)', 'S21T21R05(160.0 ms)', 'S24T21R05(160.0 ms)', 'S25T21R03(180.0 ms)', 'S26T21R05(160.0 ms)', 'S28T21R02(180.0 ms)', 'S28T21R05(180.0 ms)', 'S30T21R04(160.0 ms)', 'S09T22R02(160.0 ms)', 'S20T22R02(160.0 ms)', 'S20T22R03(180.0 ms)', 'S32T22R01(160.0 ms)', 'S24T24R03(180.0 ms)', 'S38T24R01(180.0 ms)', 'S09T26R04(160.0 ms)', 'S38T26R01(180.0 ms)', 'S06T27R02(160.0 ms)', 'S06T27R03(180.0 ms)', 'S08T27R01(160.0 ms)', 'S17T27R03(180.0 ms)', 'S18T27R01(180.0 ms)', 'S19T27R01(160.0 ms)', 'S19T27R04(180.0 ms)', 'S13T30R02(160.0 ms)', 'S13T30R03(180.0 ms)', 'S13T31R01(160.0 ms)', 'S13T31R04(160.0 ms)', 'S13T31R05(160.0 ms)', 'S20T31R03(160.0 ms)']

ms)', 'S24T31R03(160.0 ms)', 'S25T31R05(160.0 ms)', 'S29T32R04(160.0 ms)', 'S17T33R01(160.0 ms)', 'S20T33R02(160.0 ms)', 'S21T33R01(180.0 ms)', 'S21T33R04(160.0 ms)', 'S29T33R01(180.0 ms)', 'S38T33R05(180.0 ms)', 'S09T34R02(160.0 ms)', 'S13T34R02(160.0 ms)', 'S23T34R06(180.0 ms)', 'S33T34R05(160.0 ms)', 'S38T34R05(180.0 ms)']

Group4(200ms~): 2195 ['S06T20R01(600.0 ms)', 'S06T20R02(460.0 ms)', 'S06T20R03(560.0 ms)', 'S06T20R04(760.0 ms)', 'S06T20R05(560.0 ms)', 'S07T20R01(800.0 ms)', 'S07T20R02(1120.0 ms)', 'S07T20R03(1040.0 ms)', 'S07T20R04(540.0 ms)', 'S07T20R05(820.0 ms)', 'S08T20R02(720.0 ms)', 'S08T20R03(460.0 ms)', 'S08T20R04(380.0 ms)', 'S08T20R05(880.0 ms)', 'S08T20R06(1000.0 ms)', 'S09T20R02(320.0 ms)', 'S09T20R03(300.0 ms)', 'S09T20R04(240.0 ms)', 'S09T20R05(340.0 ms)', 'S09T20R06(1900.0 ms)', 'S10T20R01(660.0 ms)', 'S10T20R02(440.0 ms)', 'S10T20R03(480.0 ms)', 'S10T20R04(560.0 ms)', 'S10T20R05(1020.0 ms)', 'S11T20R01(420.0 ms)', 'S11T20R02(480.0 ms)', 'S11T20R03(480.0 ms)', 'S11T20R04(560.0 ms)', 'S11T20R05(420.0 ms)', 'S12T20R01(500.0 ms)', 'S12T20R02(520.0 ms)', 'S12T20R03(500.0 ms)', 'S12T20R04(540.0 ms)', 'S12T20R05(600.0 ms)', 'S13T20R01(600.0 ms)', 'S13T20R02(640.0 ms)', 'S13T20R03(380.0 ms)', 'S13T20R04(380.0 ms)', 'S13T20R06(400.0 ms)', 'S14T20R01(960.0 ms)', 'S14T20R02(440.0 ms)', 'S14T20R03(460.0 ms)', 'S14T20R04(320.0 ms)', 'S14T20R05(260.0 ms)', 'S15T20R01(640.0 ms)', 'S15T20R02(600.0 ms)', 'S15T20R03(680.0 ms)', 'S15T20R04(700.0 ms)', 'S15T20R05(540.0 ms)', 'S16T20R01(300.0 ms)', 'S16T20R02(480.0 ms)', 'S16T20R03(400.0 ms)', 'S16T20R04(360.0 ms)', 'S16T20R05(320.0 ms)', 'S17T20R01(640.0 ms)', 'S17T20R02(620.0 ms)', 'S17T20R03(720.0 ms)', 'S17T20R04(580.0 ms)', 'S17T20R05(380.0 ms)', 'S18T20R01(780.0 ms)', 'S18T20R02(480.0 ms)', 'S18T20R03(360.0 ms)', 'S18T20R04(880.0 ms)', 'S18T20R05(280.0 ms)', 'S19T20R01(1340.0 ms)', 'S19T20R02(480.0 ms)', 'S19T20R03(560.0 ms)', 'S19T20R04(620.0 ms)', 'S19T20R05(220.0 ms)', 'S20T20R01(800.0 ms)', 'S20T20R02(480.0 ms)', 'S20T20R03(500.0 ms)', 'S20T20R04(500.0 ms)', 'S20T20R05(500.0 ms)', 'S21T20R02(800.0 ms)', 'S21T20R03(600.0 ms)', 'S21T20R04(900.0 ms)', 'S21T20R05(1180.0 ms)', 'S21T20R06(560.0 ms)', 'S22T20R01(480.0 ms)', 'S22T20R02(480.0 ms)', 'S22T20R03(740.0 ms)', 'S22T20R04(500.0 ms)', 'S22T20R05(500.0 ms)', 'S23T20R01(1260.0 ms)', 'S23T20R02(540.0 ms)', 'S23T20R03(440.0 ms)', 'S23T20R04(400.0 ms)', 'S23T20R05(600.0 ms)', 'S24T20R01(600.0 ms)', 'S24T20R03(480.0 ms)', 'S24T20R04(300.0 ms)', 'S24T20R05(380.0 ms)', 'S25T20R01(1080.0 ms)', 'S25T20R02(1680.0 ms)', 'S25T20R03(1080.0 ms)', 'S25T20R04(760.0 ms)', 'S25T20R05(1180.0 ms)', 'S26T20R01(500.0 ms)', 'S26T20R02(420.0 ms)', 'S26T20R03(300.0 ms)', 'S26T20R04(480.0 ms)', 'S26T20R05(800.0 ms)', 'S27T20R01(360.0 ms)', 'S27T20R02(500.0 ms)', 'S27T20R03(640.0 ms)', 'S27T20R04(720.0 ms)', 'S27T20R05(580.0 ms)', 'S28T20R01(620.0 ms)', 'S28T20R02(460.0 ms)', 'S28T20R03(340.0 ms)', 'S28T20R04(480.0 ms)', 'S28T20R05(520.0 ms)', 'S29T20R01(820.0 ms)', 'S29T20R02(940.0 ms)', 'S29T20R03(480.0 ms)', 'S29T20R04(980.0 ms)', 'S29T20R05(1360.0 ms)', 'S30T20R01(660.0 ms)', 'S30T20R02(320.0 ms)', 'S30T20R03(680.0 ms)', 'S30T20R04(680.0 ms)', 'S30T20R05(460.0 ms)', 'S31T20R01(700.0 ms)', 'S31T20R02(360.0 ms)', 'S31T20R03(520.0 ms)', 'S31T20R04(580.0 ms)', 'S31T20R05(580.0 ms)', 'S32T20R01(880.0 ms)', 'S32T20R02(700.0 ms)', 'S32T20R03(640.0 ms)', 'S32T20R04(1120.0 ms)', 'S32T20R05(600.0 ms)', 'S33T20R01(560.0 ms)', 'S33T20R02(420.0 ms)', 'S33T20R03(660.0 ms)', 'S33T20R04(560.0 ms)', 'S33T20R05(520.0 ms)', 'S35T20R01(600.0 ms)', 'S35T20R02(420.0 ms)', 'S35T20R03(660.0 ms)', 'S35T20R04(640.0 ms)', 'S35T20R05(560.0 ms)', 'S36T20R01(580.0 ms)', 'S36T20R02(540.0 ms)', 'S36T20R03(560.0 ms)', 'S36T20R04(800.0 ms)', 'S36T20R05(560.0 ms)', 'S37T20R01(1040.0 ms)', 'S37T20R02(640.0 ms)', 'S37T20R03(500.0 ms)', 'S37T20R04(420.0 ms)', 'S37T20R05(620.0 ms)', 'S38T20R01(560.0 ms)', 'S38T20R02(540.0 ms)', 'S38T20R03(900.0 ms)', 'S38T20R04(720.0 ms)', 'S38T20R05(960.0 ms)', 'S06T21R02(320.0 ms)', 'S06T21R03(240.0 ms)', 'S07T21R01(420.0 ms)', 'S07T21R02(260.0 ms)', 'S07T21R05(460.0 ms)', 'S09T21R01(320.0 ms)', 'S09T21R02(240.0 ms)', 'S09T21R03(200.0 ms)', 'S09T21R04(240.0 ms)', 'S10T21R01(360.0 ms)', 'S10T21R02(260.0 ms)', 'S10T21R03(300.0 ms)', 'S10T21R04(240.0 ms)', 'S10T21R05(380.0 ms)', 'S12T21R04(360.0 ms)', 'S12T21R05(440.0 ms)', 'S12T21R06(200.0 ms)', 'S13T21R05(220.0 ms)', 'S14T21R02(280.0 ms)', 'S14T21R03(200.0 ms)', 'S14T21R04(280.0 ms)', 'S15T21R01(320.0 ms)', 'S15T21R04(220.0 ms)', 'S16T21R01(500.0 ms)', 'S16T21R03(260.0 ms)', 'S16T21R04(400.0 ms)', 'S16T21R05(380.0 ms)', 'S16T21R06(360.0 ms)', 'S18T21R03(220.0 ms)', 'S18T21R04(200.0 ms)', 'S19T21R02(200.0 ms)', 'S21T21R01(340.0 ms)', 'S21T21R02(220.0 ms)', 'S22T21R01(220.0 ms)', 'S22T21R02(200.0 ms)', 'S22T21R03(320.0 ms)', 'S22T21R04(260.0 ms)', 'S23T21R01(240.0 ms)', 'S23T21R02(260.0 ms)', 'S23T21R03(280.0 ms)',

'S23T21R04(500.0 ms)', 'S23T21R05(640.0 ms)', 'S24T21R01(260.0 ms)', 'S24T21R02(280.0 ms)',
'S24T21R03(400.0 ms)', 'S24T21R04(340.0 ms)', 'S25T21R01(240.0 ms)', 'S25T21R02(320.0 ms)',
'S26T21R04(260.0 ms)', 'S27T21R01(280.0 ms)', 'S27T21R02(440.0 ms)', 'S27T21R03(320.0 ms)',
'S27T21R05(240.0 ms)', 'S28T21R01(220.0 ms)', 'S28T21R03(220.0 ms)', 'S28T21R04(220.0 ms)',
'S29T21R01(260.0 ms)', 'S29T21R02(240.0 ms)', 'S29T21R03(300.0 ms)', 'S29T21R04(260.0 ms)',
'S29T21R05(240.0 ms)', 'S30T21R01(240.0 ms)', 'S30T21R02(260.0 ms)', 'S30T21R03(220.0 ms)',
'S30T21R05(220.0 ms)', 'S31T21R01(400.0 ms)', 'S31T21R02(300.0 ms)', 'S31T21R03(280.0 ms)',
'S31T21R04(380.0 ms)', 'S31T21R05(300.0 ms)', 'S32T21R01(320.0 ms)', 'S32T21R02(360.0 ms)',
'S32T21R03(380.0 ms)', 'S32T21R04(340.0 ms)', 'S32T21R05(320.0 ms)', 'S33T21R02(260.0 ms)',
'S33T21R03(240.0 ms)', 'S33T21R04(200.0 ms)', 'S33T21R05(260.0 ms)', 'S35T21R01(260.0 ms)',
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Graph of missed files