Warning: Training stopped at iteration 1041 because training loss is NaN. Predictions using the output network might contain NaN values.

Iter	Eval result	Objective	Objective runtime	BestSoFar (observed)	BestSoFar (estim.)	SectionDepth	InitialLearnRate	Momentum	L2Regularization
1	Best	0.804	39.568	0.804	0.804	1	0.61195	0.87128	9.4788e-09
2	Best	0.024	179.96	0.024	0.063015	3	0.010349	0.82812	0.00069607
3	Accept	0.082	98.183	0.024	0.02408	1	0.015676	0.96183	1.8237e-09

Warning: Training stopped at iteration 1413 because training loss is NaN. Predictions using the output network might contain NaN values.

4	Accept	0.788	26.996	0.024	0.024004	2	0.23953	0.9636	0.00026711
5	Best	0.002	180.58	0.002	0.0028991	3	0.010001	0.92021	2.2381e-07
6	Accept	0.016	109.57	0.002	0.011571	1	0.010185	0.93102	1.0918e-10
7	Accept	0.028	98.339	0.002	0.015972	1	0.010011	0.97345	3.9357e-10
8	Accept	0.032	99.741	0.002	0.016016	1	0.010023	0.96028	2.9473e-10
9	Accept	0.206	151.26	0.002	0.0031885	3	0.010015	0.96093	1.4004e-06
10	Accept	0.002	176.49	0.002	0.0024941	3	0.010029	0.81018	4.4637e-10
11	Accept	0.004	142.36	0.002	0.0017986	2	0.010666	0.87562	1.8341e-10
12	Accept	0.018	99.429	0.002	0.023117	1	0.010554	0.80366	2.8041e-06

```
| 13 | Accept |  149.05 | 0.004 |   0.002131 | 0.002 | 2 | 0.010171 | 0.80704
|    |        |         |       |            |       |   |          |
| 2.1574e-10 |
| 14 | Accept |  99.129 | 0.026 |  0.0090419 | 0.002 | 1 | 0.011328 | 0.80566
|    |        |         |       |            |       |   |          |
| 1.7901e-10 |
| 15 | Accept |  144.63 | 0.804 |   0.012633 | 0.002 | 2 | 0.081054 | 0.97597
|    |        |         |       |            |       |   |          |
| 1.0416e-10 |
```

Warning: Training stopped at iteration 256 because training loss is NaN. Predictions using the output network might contain NaN values.

```
| 16 | Accept |  7.9519 | 0.824 |   0.014815 | 0.002 | 2 |  0.98975 | 0.96257
|    |        |         |       |            |       |   |          |
| 0.00066116 |
| 17 | Accept |  98.863 | 0.804 |   0.021392 | 0.002 | 1 | 0.037712 | 0.80819
|    |        |         |       |            |       |   |          |
| 0.0099199 |
| 18 | Accept |  98.517 | 0.02  | -0.00046348| 0.002 | 1 |  0.01195 | 0.81347
|    |        |         |       |            |       |   |          |
| 2.0583e-10 |
| 19 | Accept |  99.835 | 0.014 | -0.0095999 | 0.002 | 1 | 0.010047 | 0.86457
|    |        |         |       |            |       |   |          |
| 2.2036e-07 |
| 20 | Accept |  98.678 | 0.012 | -0.0036342 | 0.002 | 1 |  0.01038 | 0.87758
|    |        |         |       |            |       |   |          |
| 1.0503e-10 |
|======================================================================
|======================================================================
| Iter | Eval   | Objective | Objective | BestSoFar  | BestSoFar | SectionDepth | InitialLearn- | Momentum
|      | result |           | runtime   | (observed) | (estim.)  |              | Rate          |
| L2Regulariza- |
| tion |
|======================================================================
|======================================================================
| 21 | Accept |  100.78 | 0.014 | -0.00040269| 0.002 | 1 | 0.010043 |  0.8669
|    |        |         |       |            |       |   |          |
| 1.1455e-10 |
| 22 | Accept |  181.96 | 0.16  |    0.01741 | 0.002 | 3 | 0.010376 | 0.83777
|    |        |         |       |            |       |   |          |
| 1.7664e-07 |
```

Warning: Training stopped at iteration 675 because training loss is NaN. Predictions using the output network might contain NaN values.

```
| 23 | Accept |   18.63 | 0.786 |   0.019534 | 0.002 | 3 |  0.41413 | 0.97754
|    |        |         |       |            |       |   |          |
| 0.0086126 |
| 24 | Accept |  98.365 | 0.824 |   0.018241 | 0.002 | 1 |  0.14402 |   0.9055
|    |        |         |       |            |       |   |          |
| 0.00055515 |
```

Warning: Training stopped at iteration 318 because training loss is NaN. Predictions using the output network might↵
contain NaN values.
| 25 | Accept | 0.804 | 10.249 | 0.002 | 0.019165 | 3 | 0.75477 | 0.97742↵
| 1.2587e-10 |
| 26 | Accept | 0.798 | 183.18 | 0.002 | 0.019688 | 3 | 0.32761 | 0.80075↵
| 2.3147e-10 |
Warning: Training stopped at iteration 764 because training loss is NaN. Predictions using the output network might↵
contain NaN values.
| 27 | Accept | 0.824 | 12.421 | 0.002 | 0.020218 | 1 | 0.36273 | 0.97689↵
| 7.7662e-05 |
| 28 | Accept | 0.028 | 98.234 | 0.002 | 0.022121 | 1 | 0.023886 | 0.80753↵
| 1.4666e-08 |
| 29 | Accept | 0.014 | 101.19 | 0.002 | 0.017244 | 1 | 0.019444 | 0.80918↵
| 1.0498e-08 |
| 30 | Accept | 0.016 | 97.911 | 0.002 | 0.02126 | 1 | 0.020808 | 0.80476↵
| 1.8216e-10 |

Optimization completed.
MaxObjectiveEvaluations of 30 reached.
Total function evaluations: 30
Total elapsed time: 3109.3925 seconds
Total objective function evaluation time: 3102.0219

Best observed feasible point:
    SectionDepth   InitialLearnRate   Momentum   L2Regularization
    _____   _____   _____   _____

    3   0.010001   0.92021   2.2381e-07

Observed objective function value = 0.002
Estimated objective function value = 0.068455
Function evaluation time = 180.5754

Best estimated feasible point (according to models):
    SectionDepth   InitialLearnRate   Momentum   L2Regularization

```
                    1          0.01038          0.87758          1.0503e-10

Estimated objective function value = 0.02126
Estimated function evaluation time = 99.5195


acc_25dB =

     1


acc_20dB =

    0.9806


acc_15dB =

    0.7762


acc_10dB =

    0.3758


>>
```