OOB error rate vs. mtry

x−axis: factor that multiplies default mtry [sqrt(number variables)]

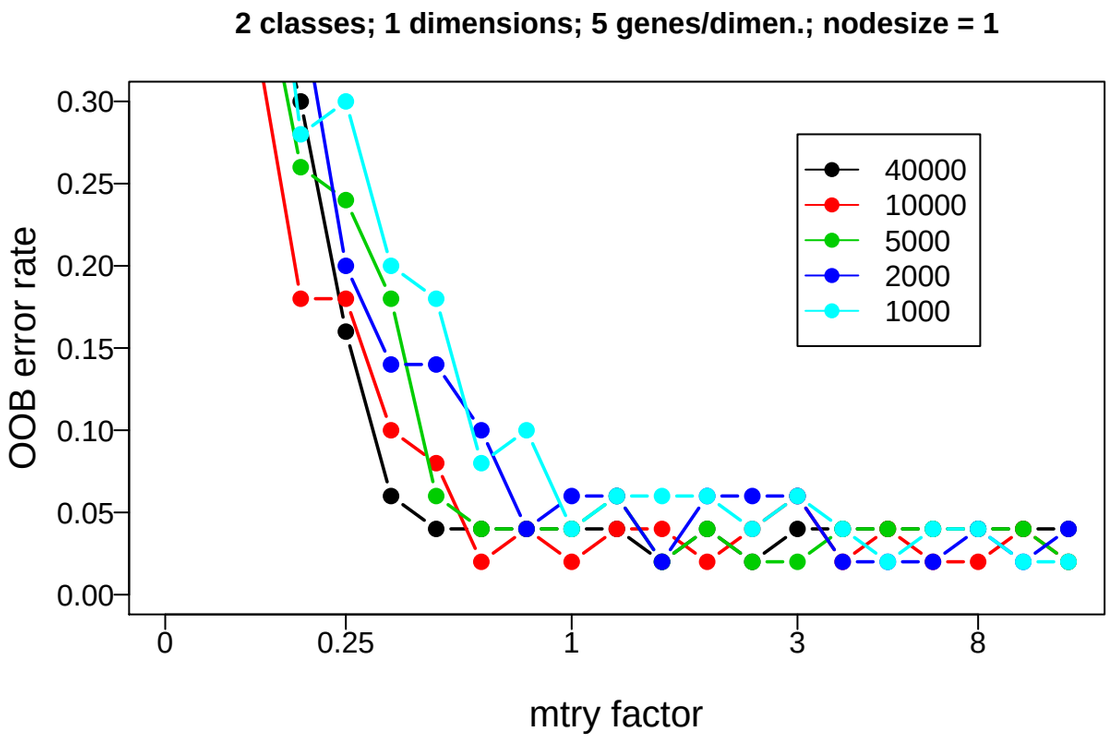
Mtry factors used: {0, 0.05, 0.1, 0.17, 0.25, 0.33, 0.5, 0.75, 0.8, 1, 1.15, 1.33, 1.5, 2, 3, 4, 5, 6, 8, 10, 13}

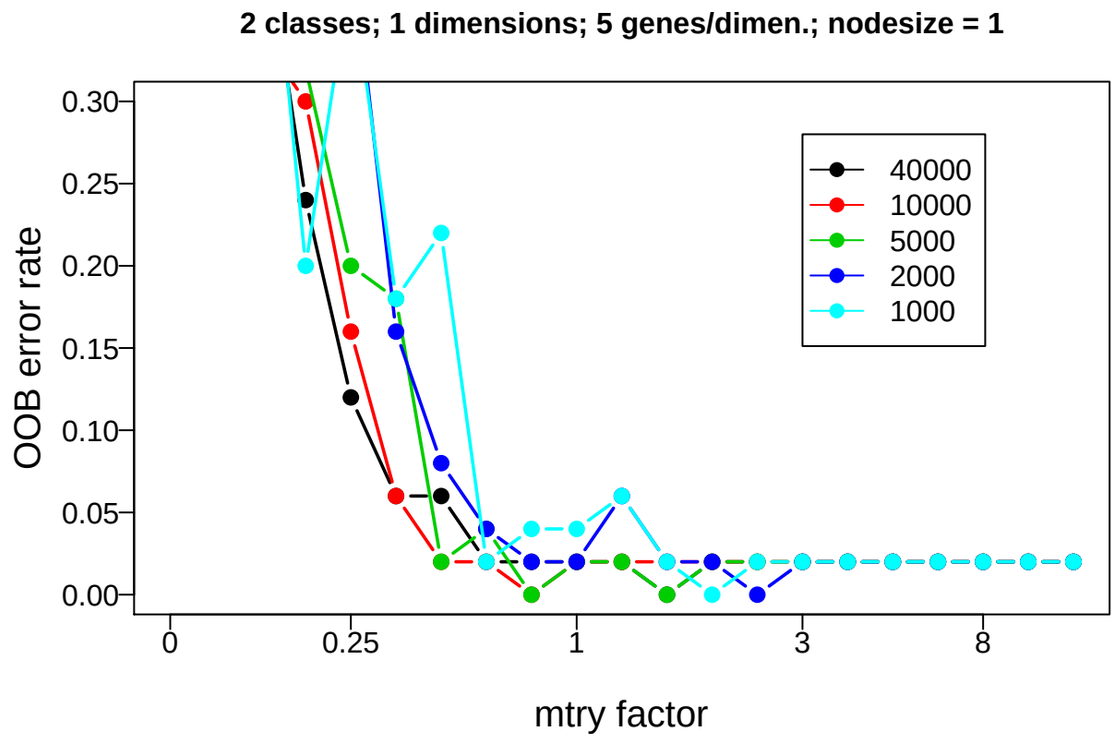
(mtry factors of 0 means mtry = 1)

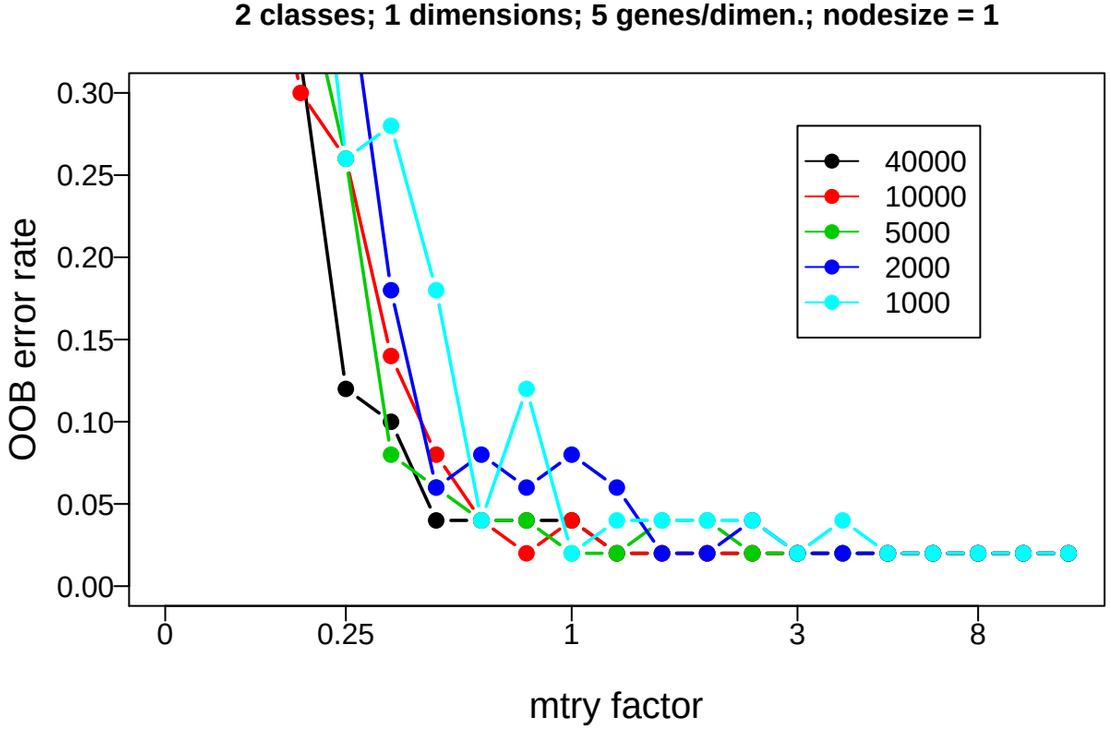
I: Simulated data sets:

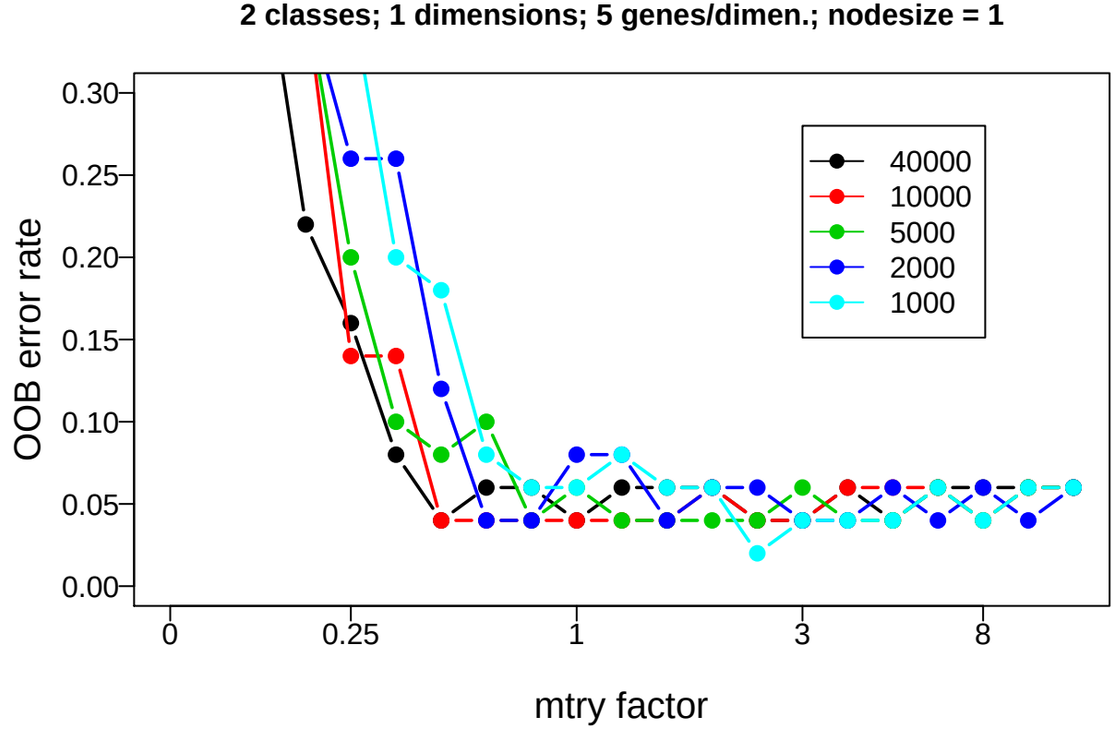
signal + 4000 noise random variables

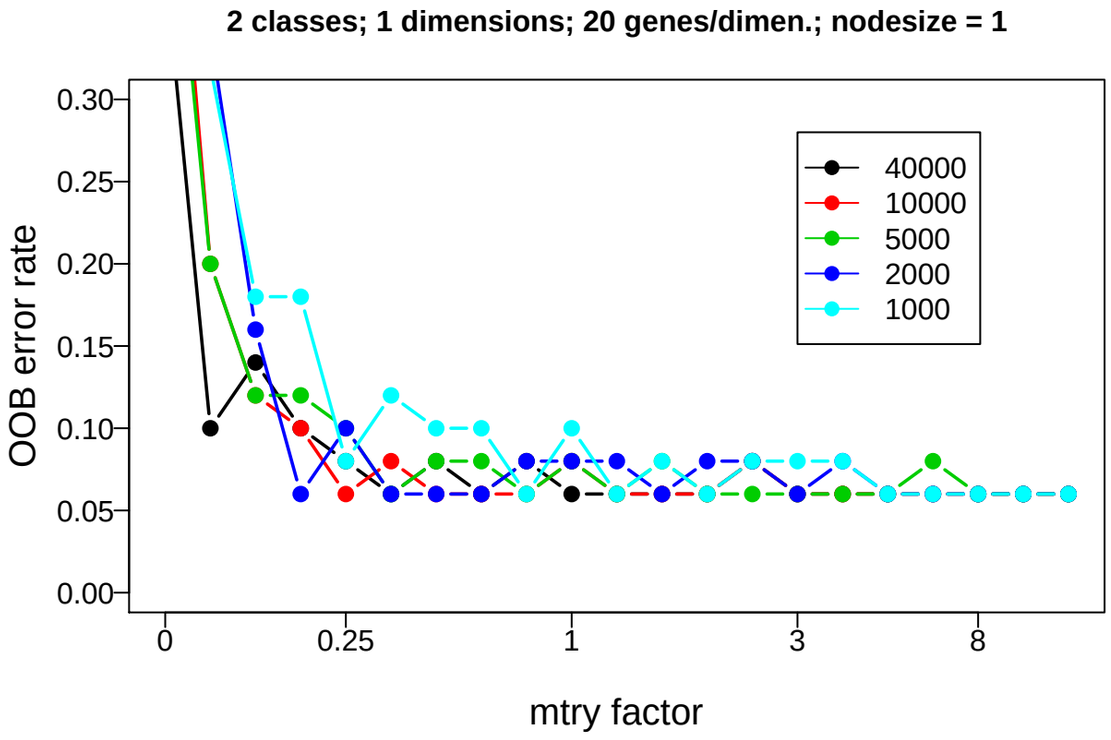
(shown first with nodesize = 1, then nodesize = 5)

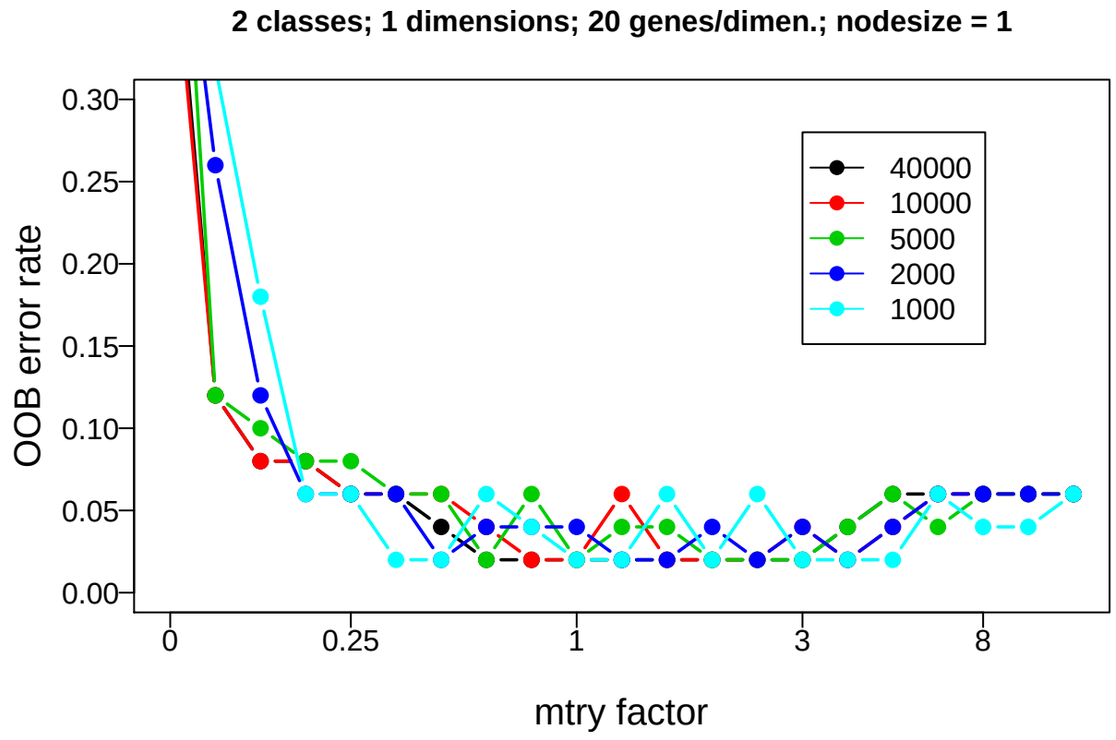

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

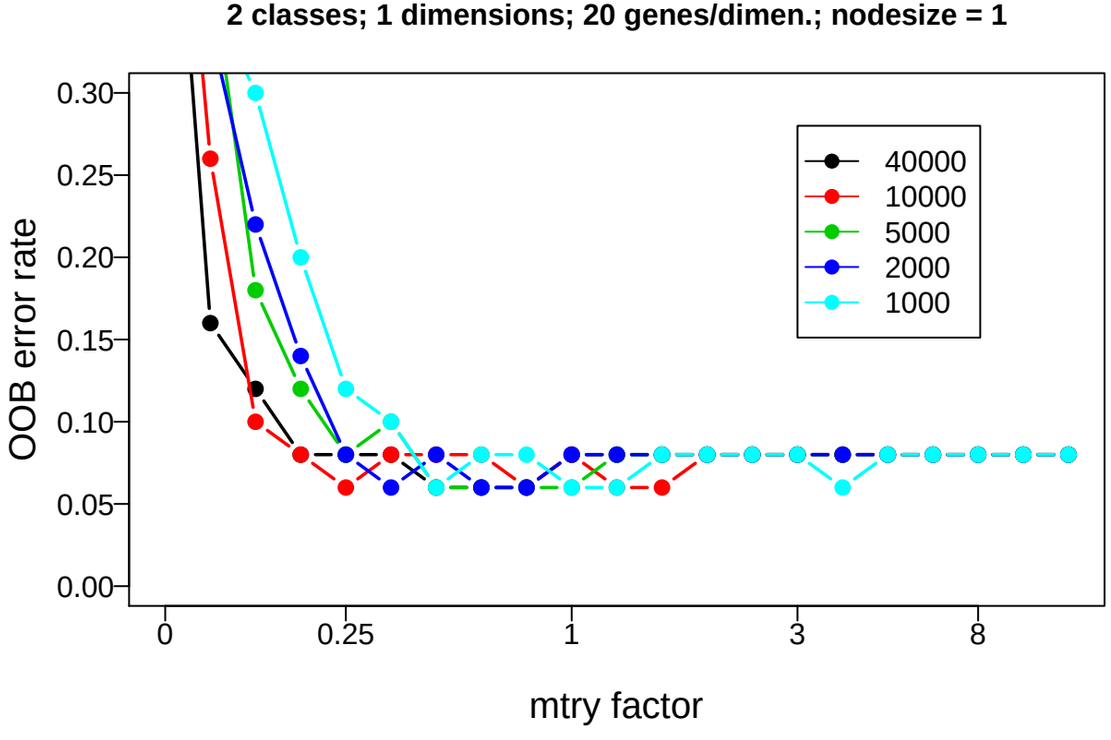

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

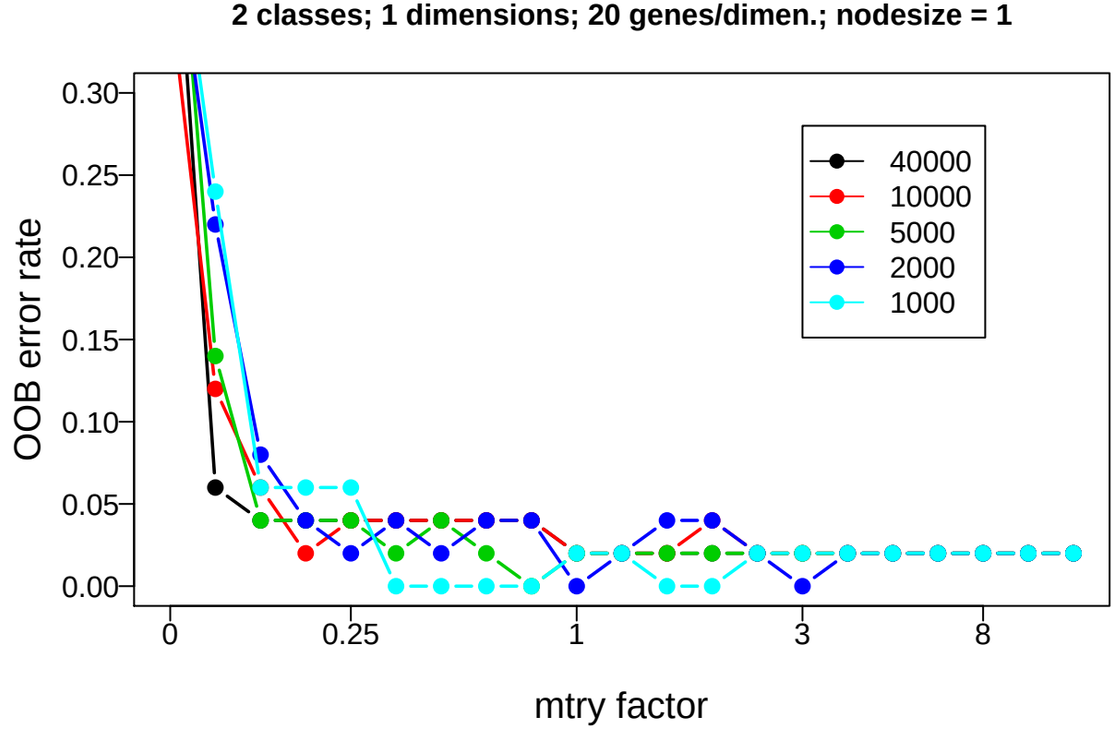

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

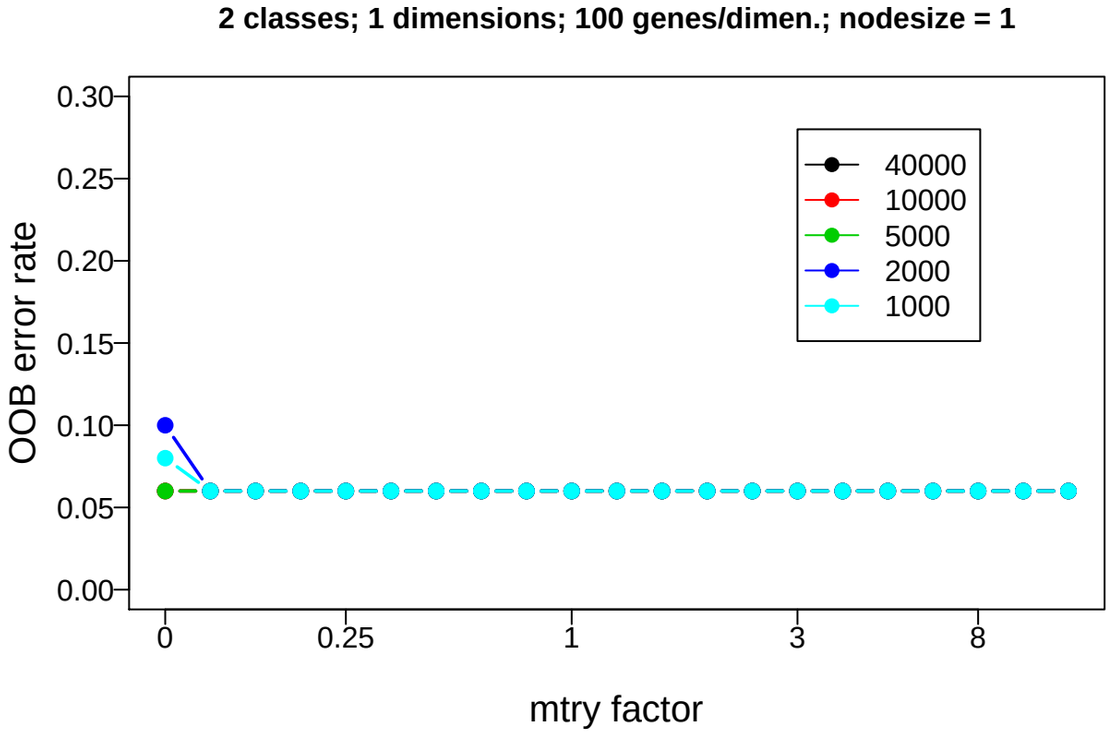

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

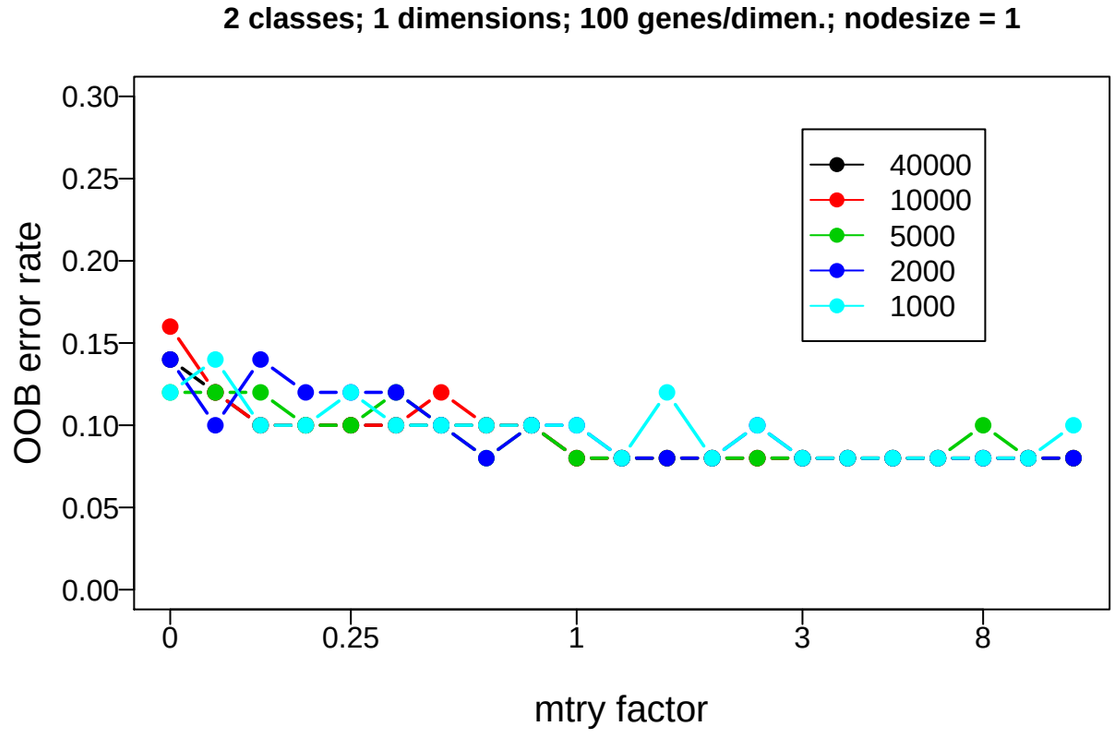

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

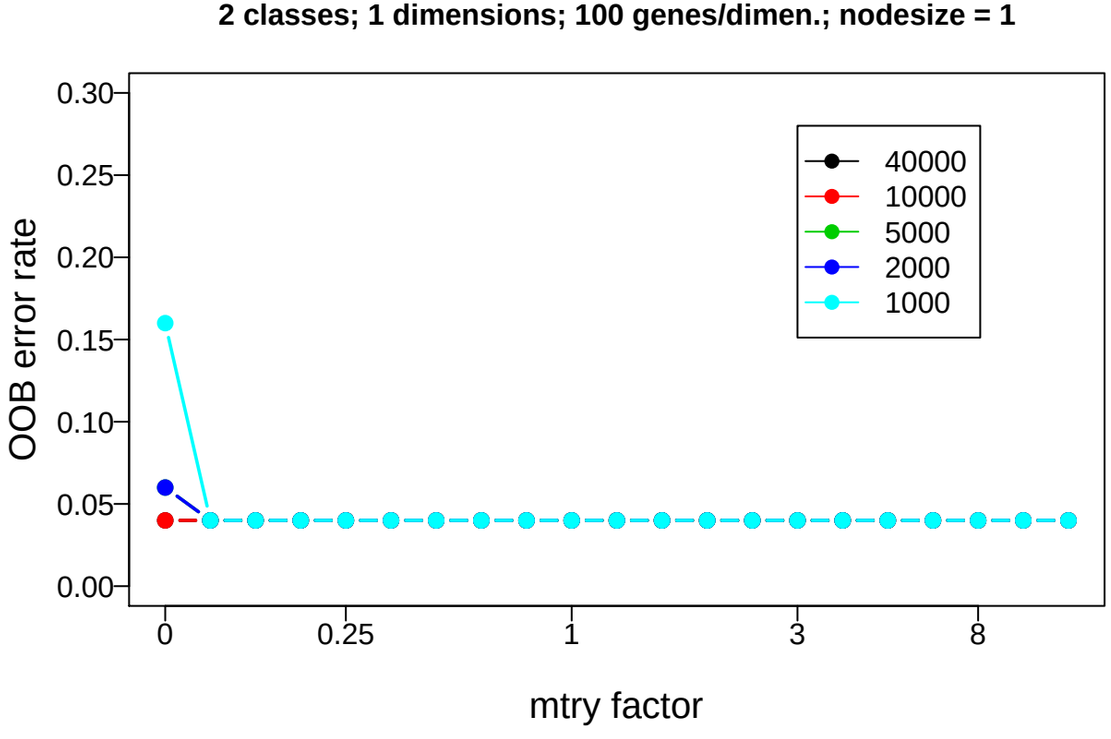

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

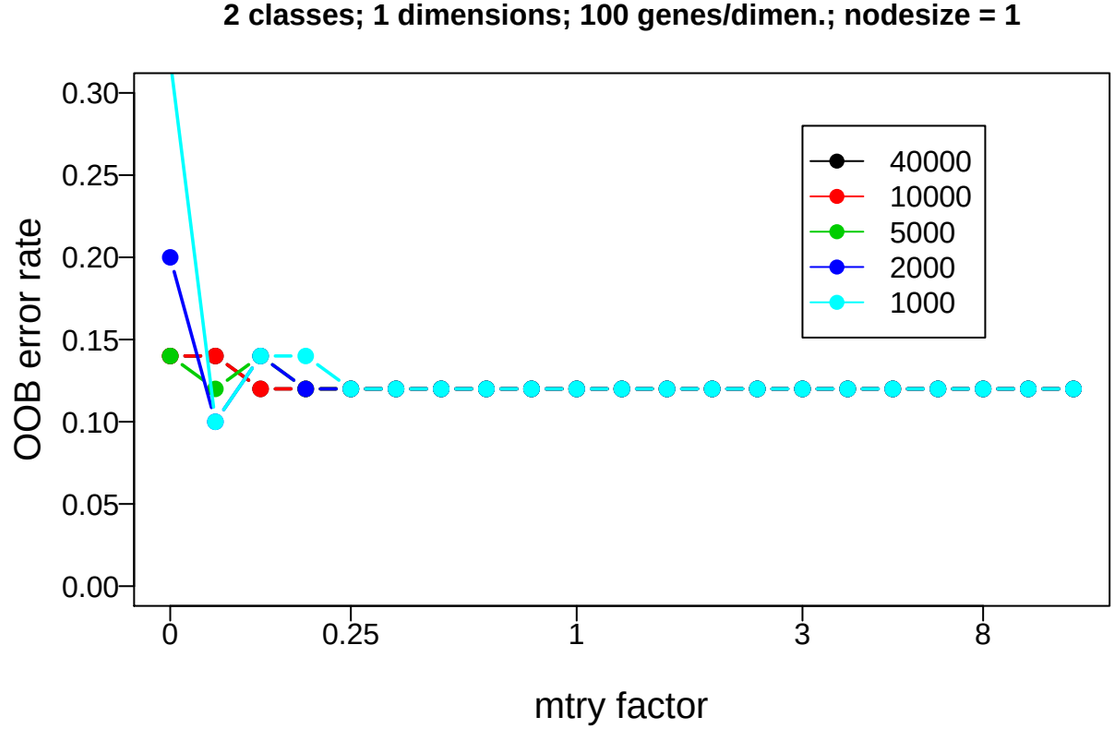

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

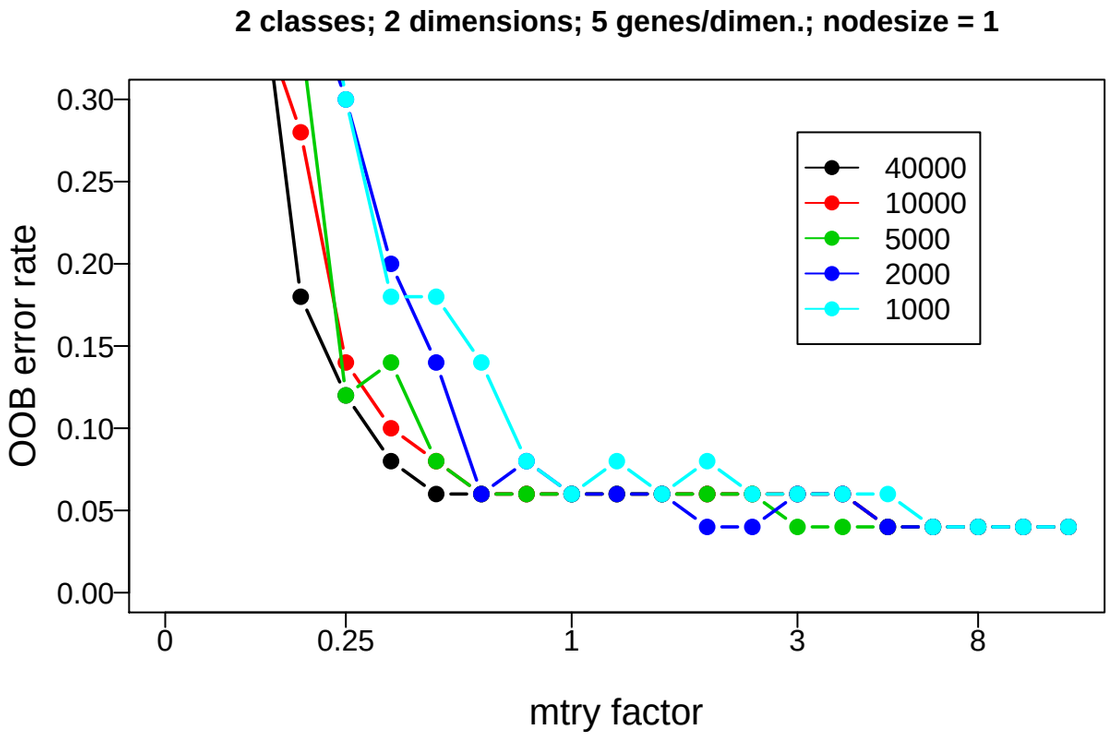

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

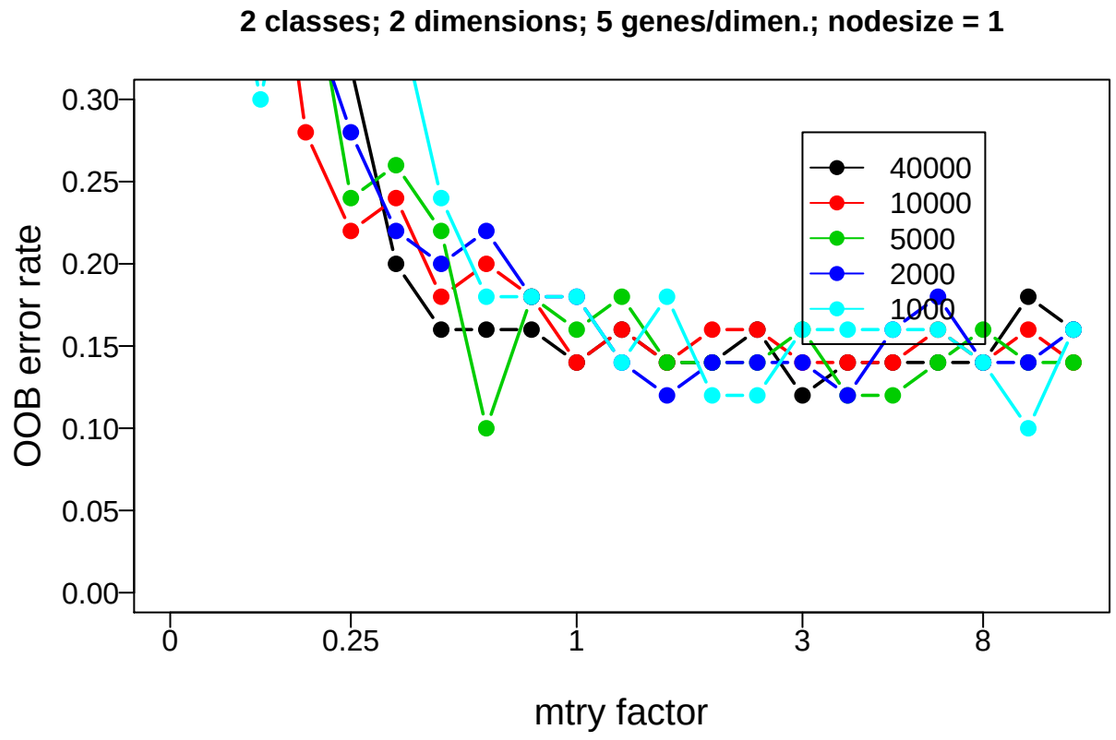

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

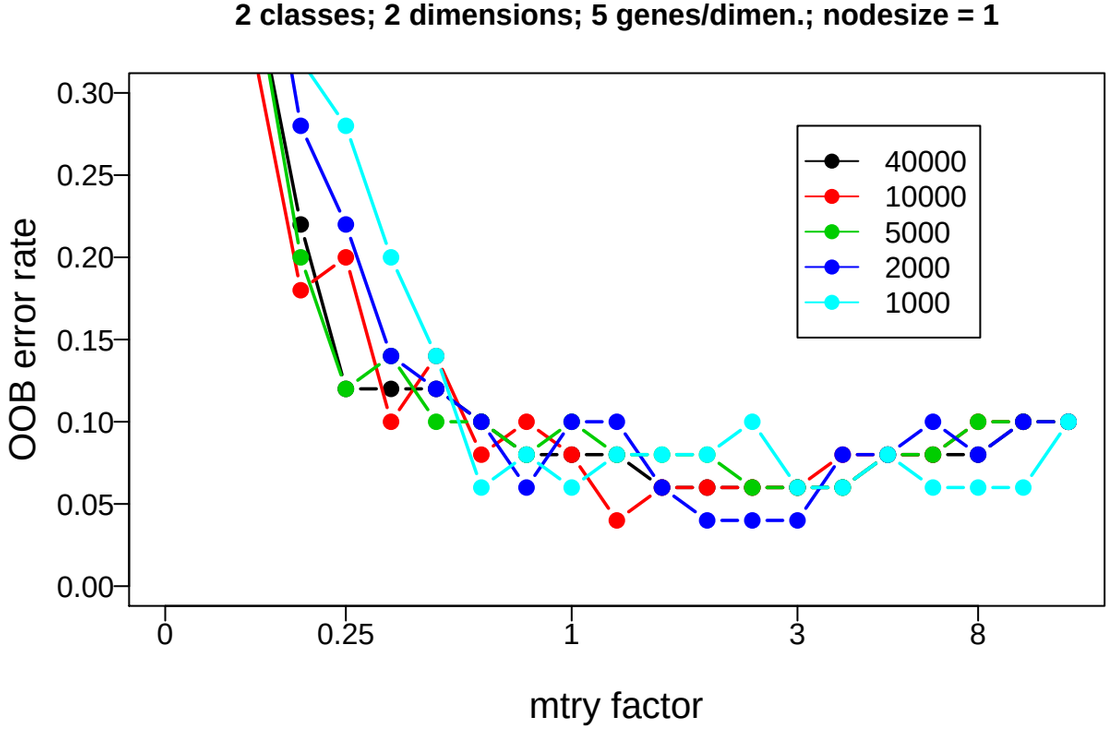

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

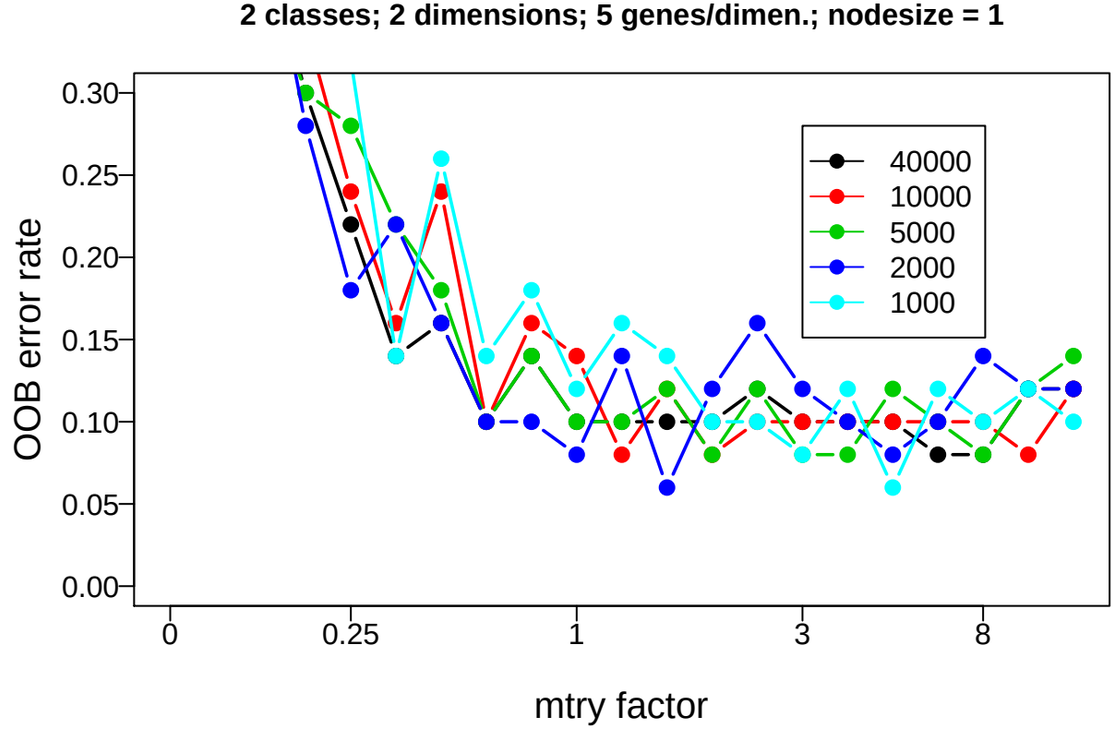

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

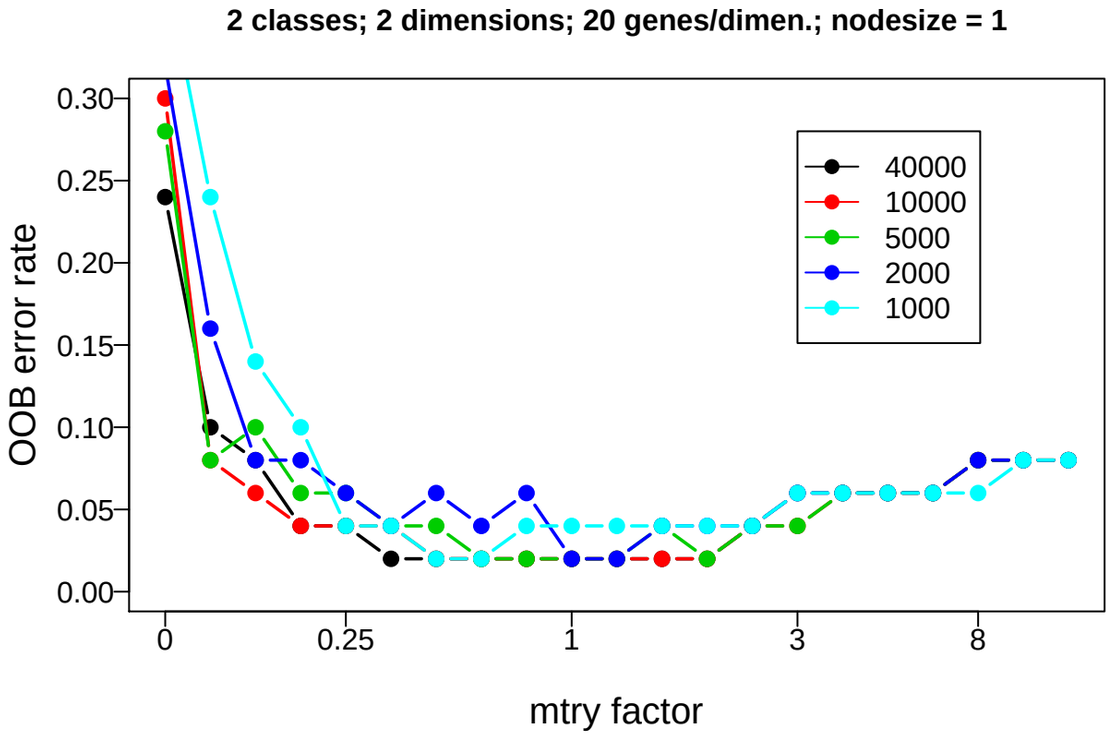

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

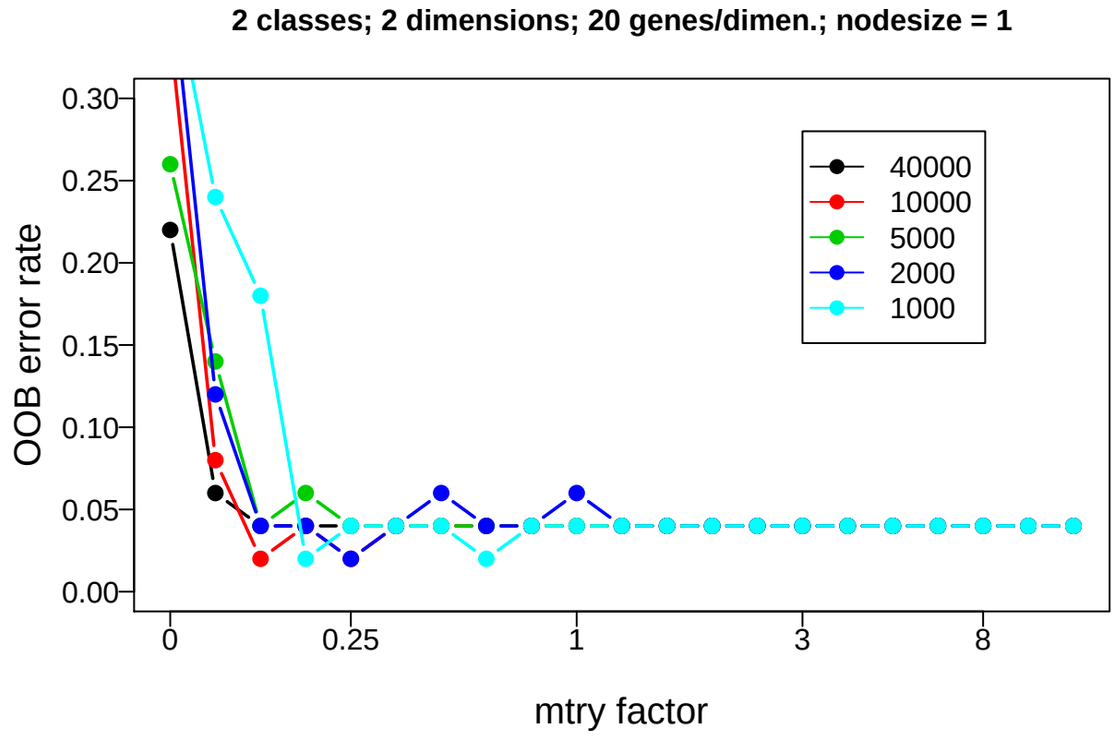

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

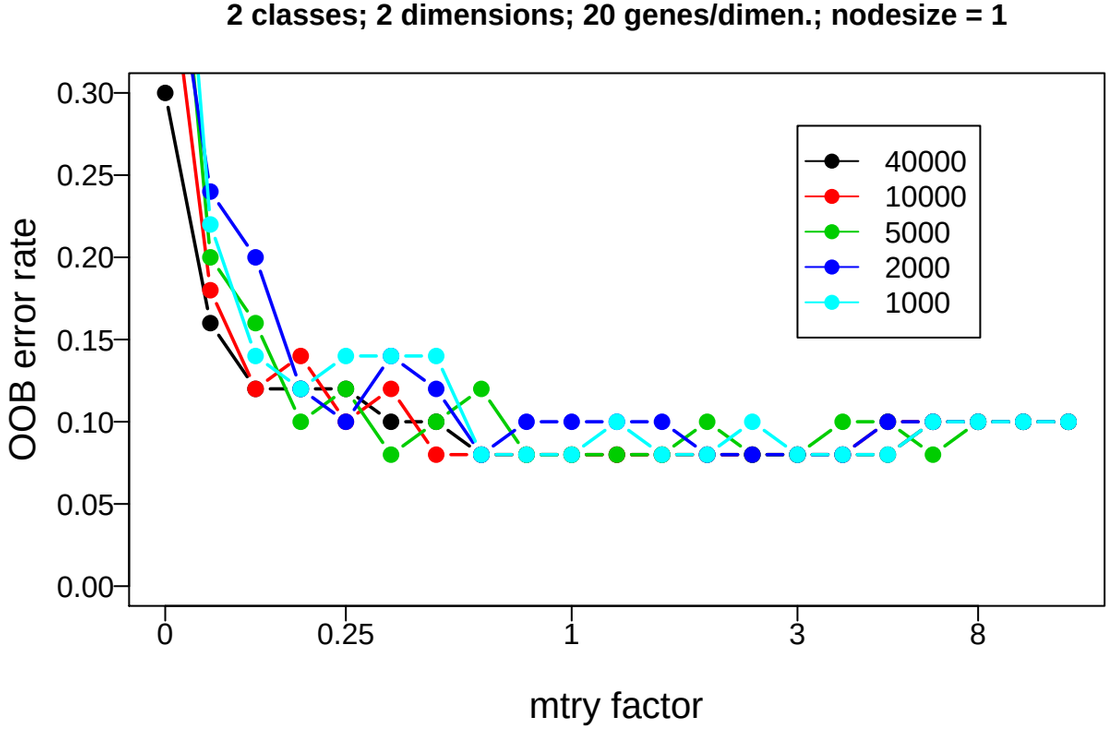

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

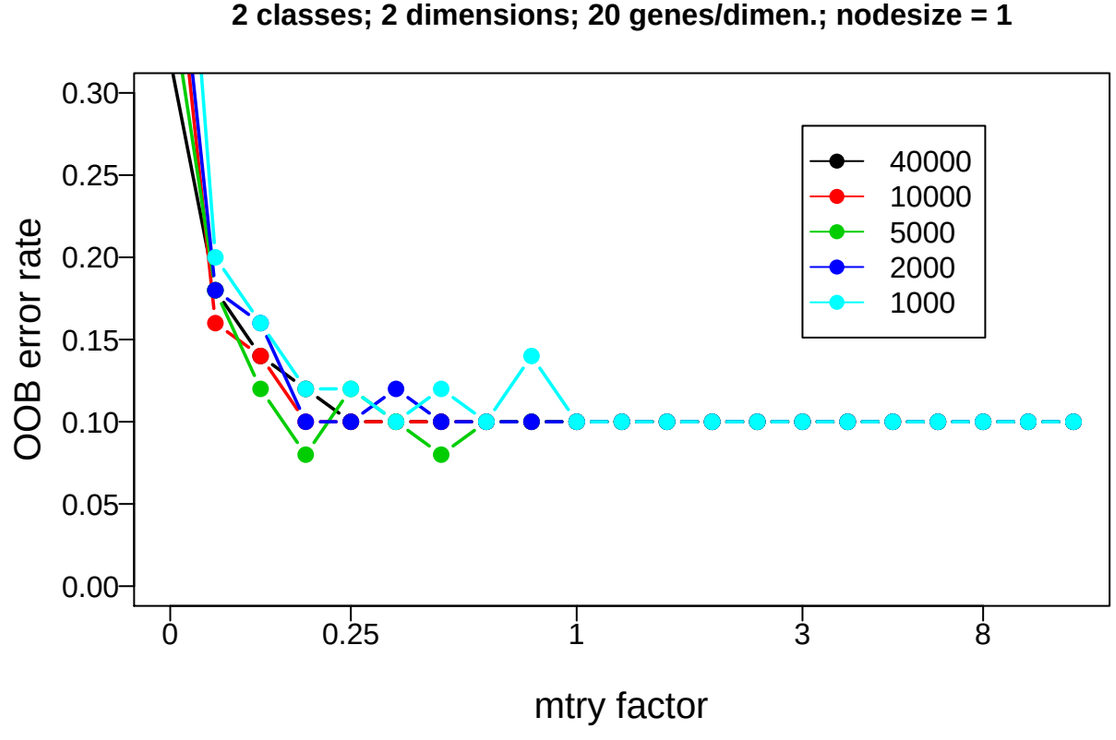

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

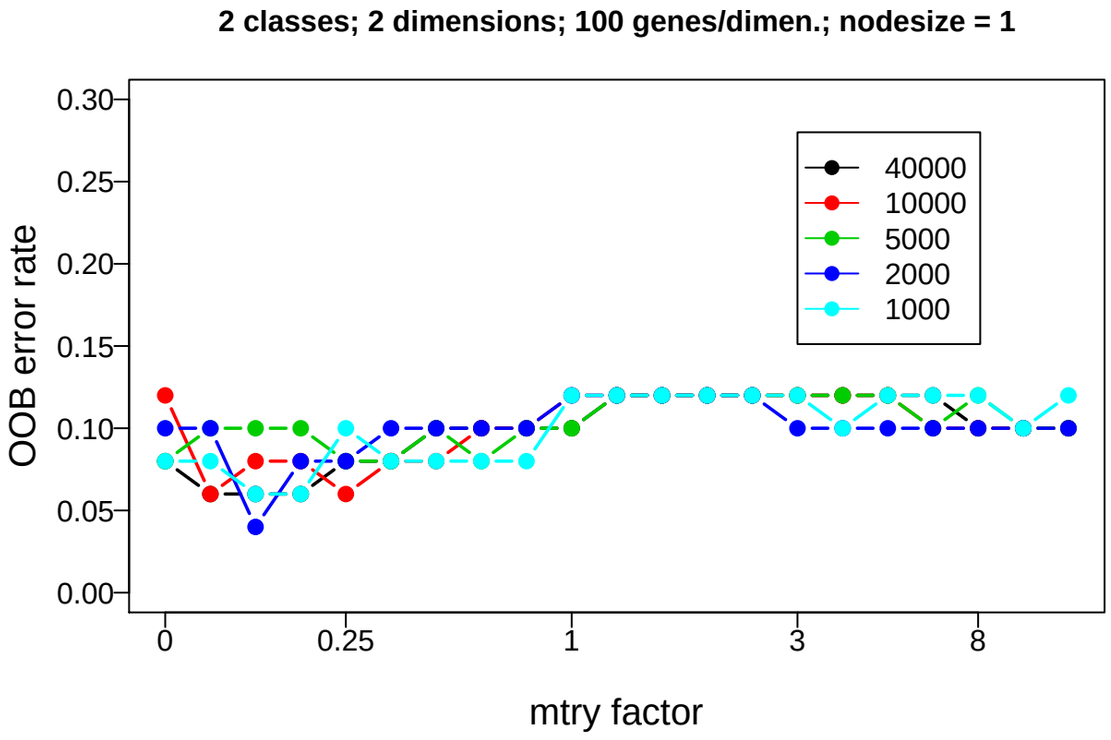

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

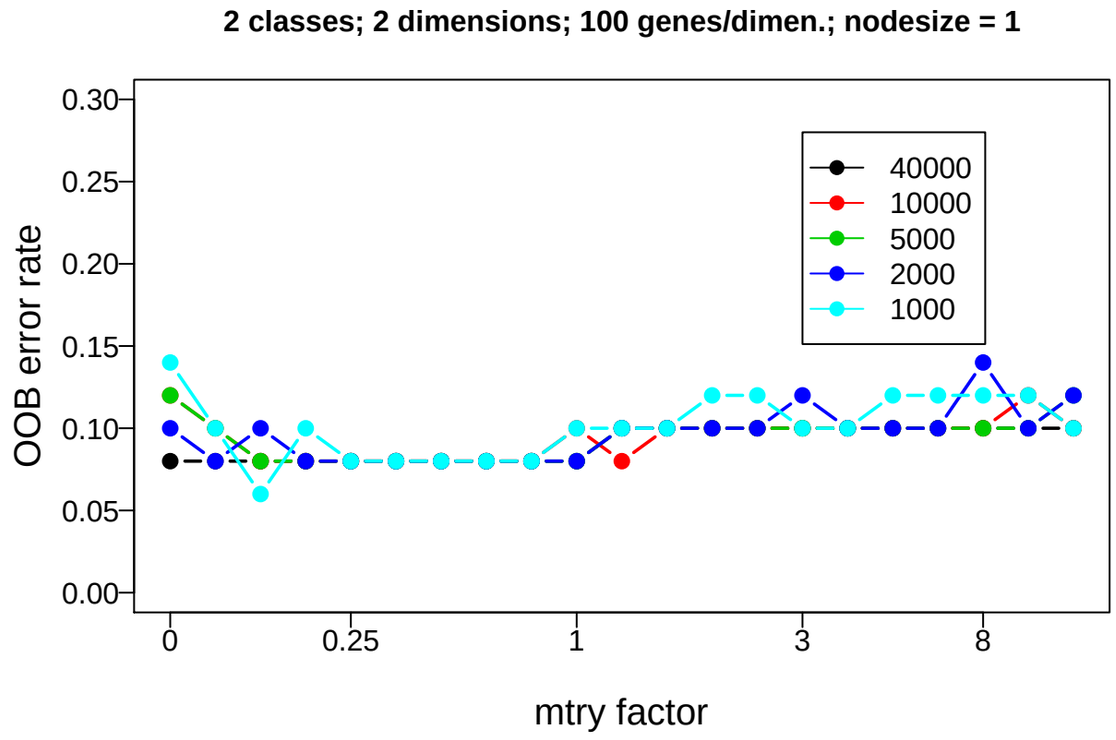

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

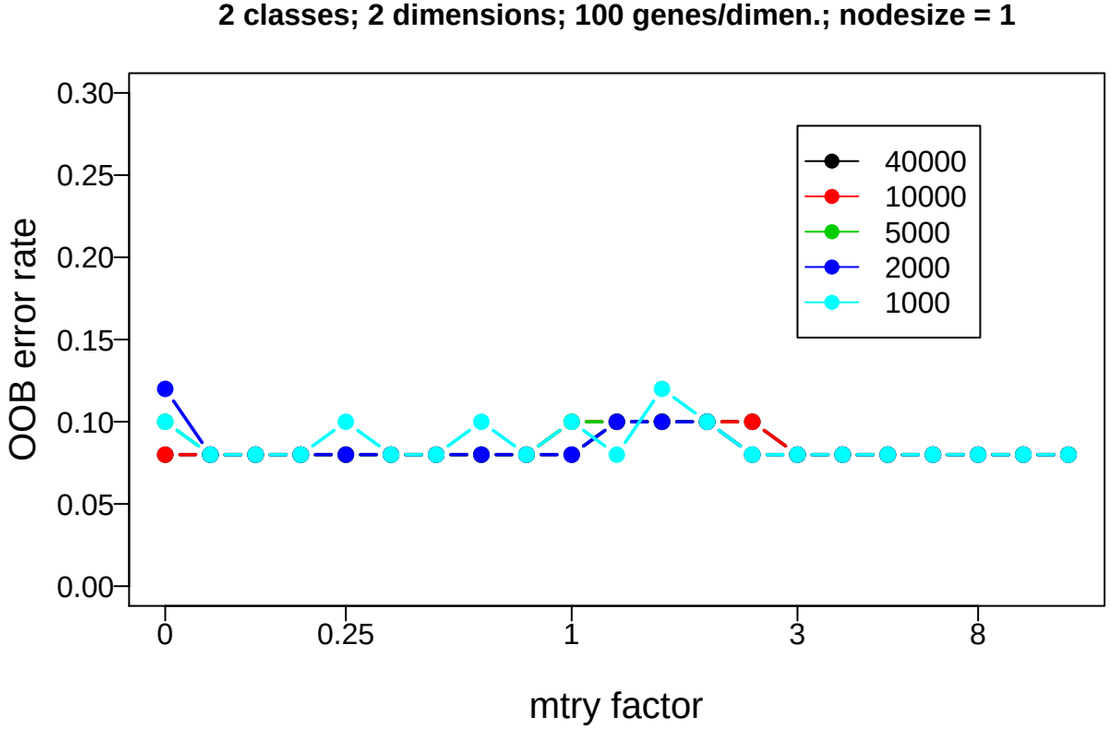

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

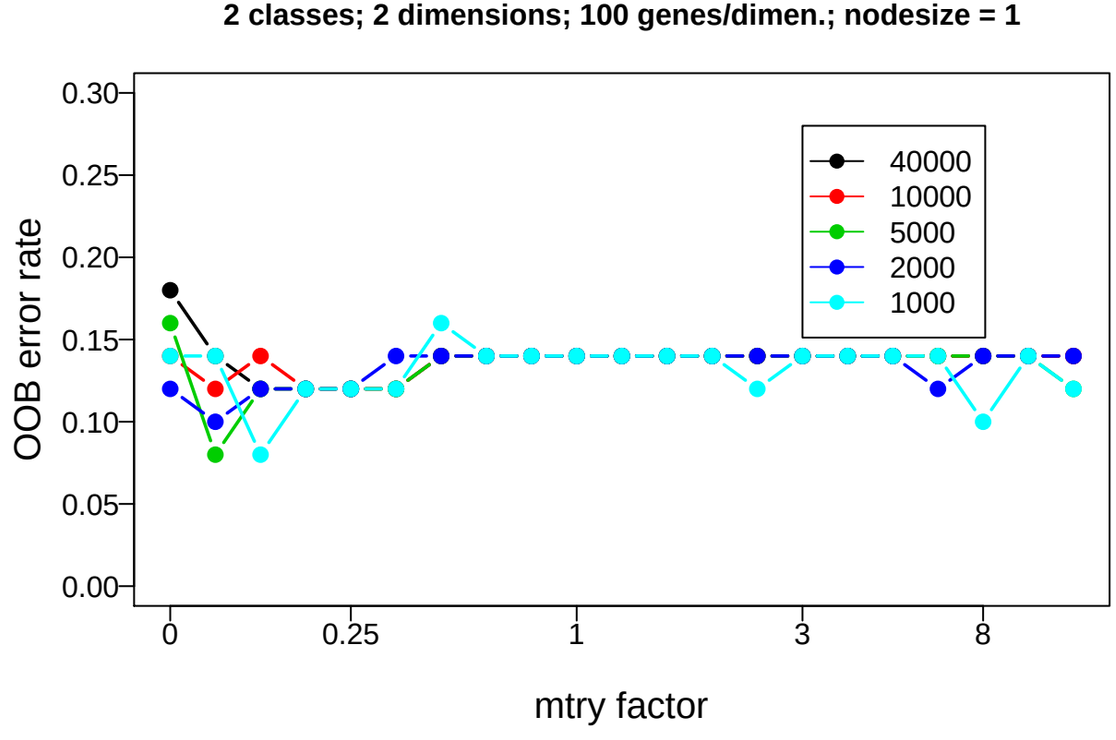

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

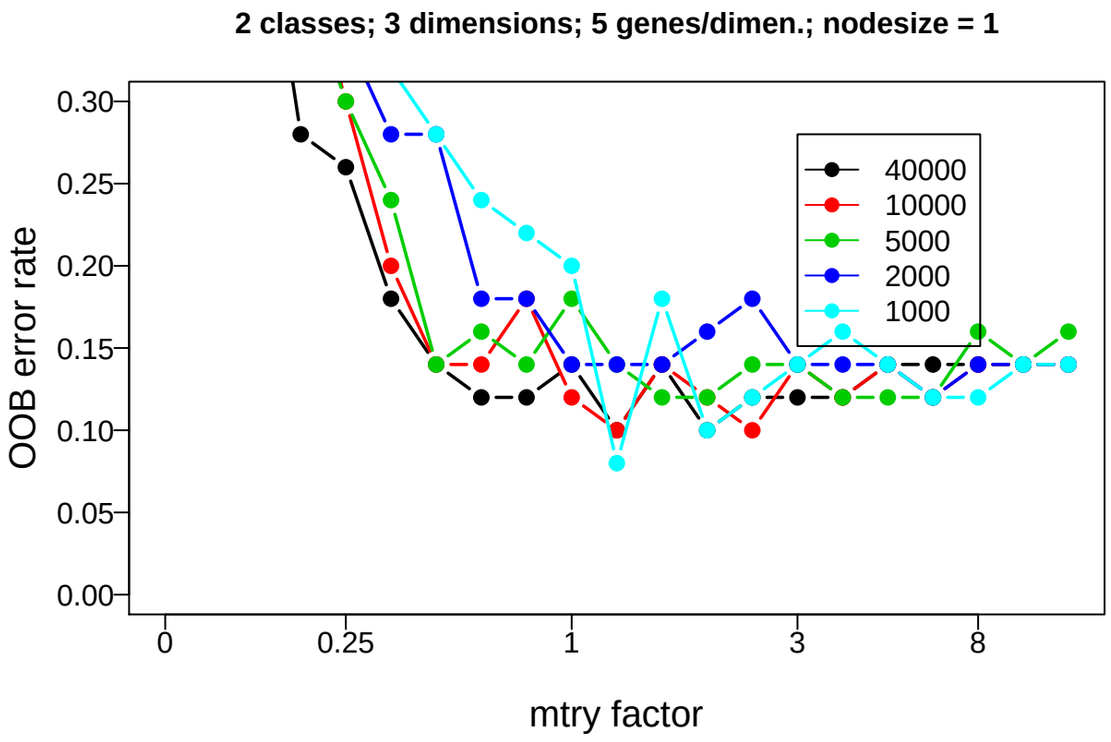

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

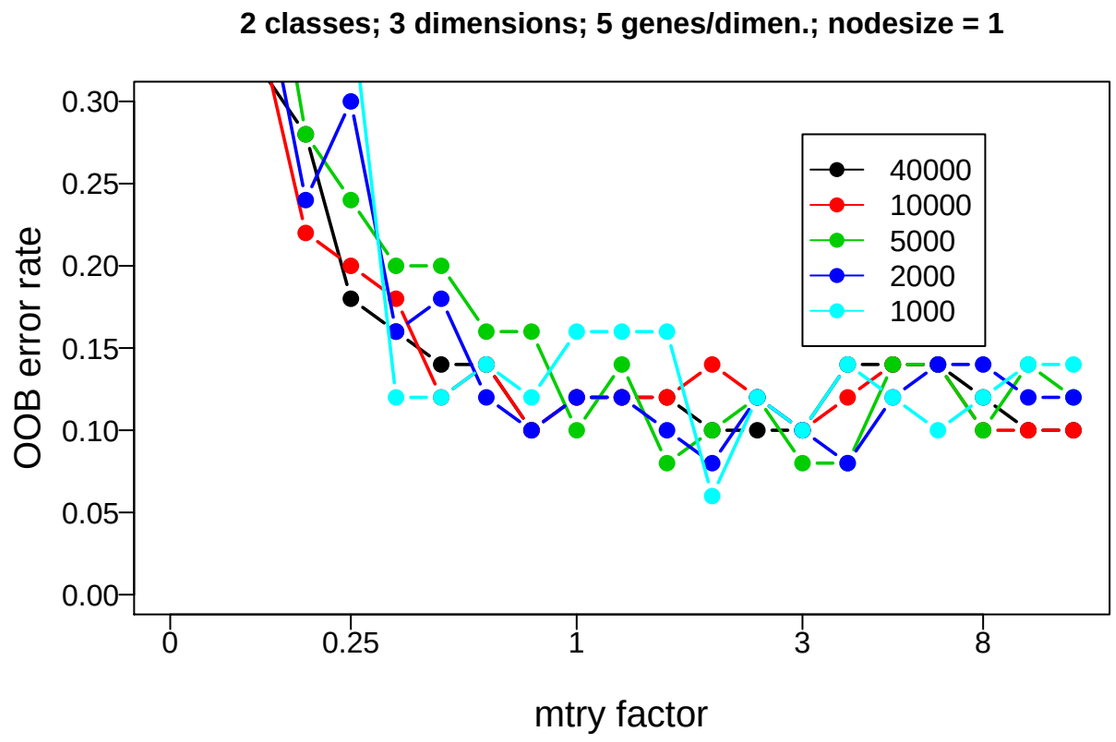

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

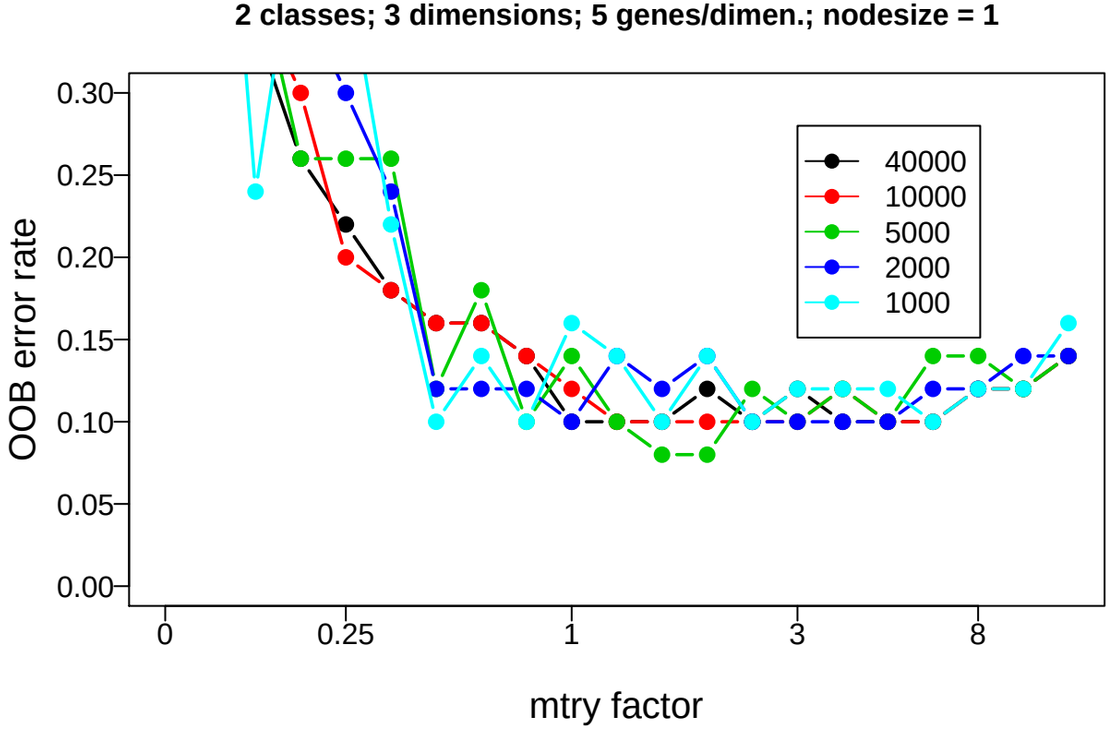

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

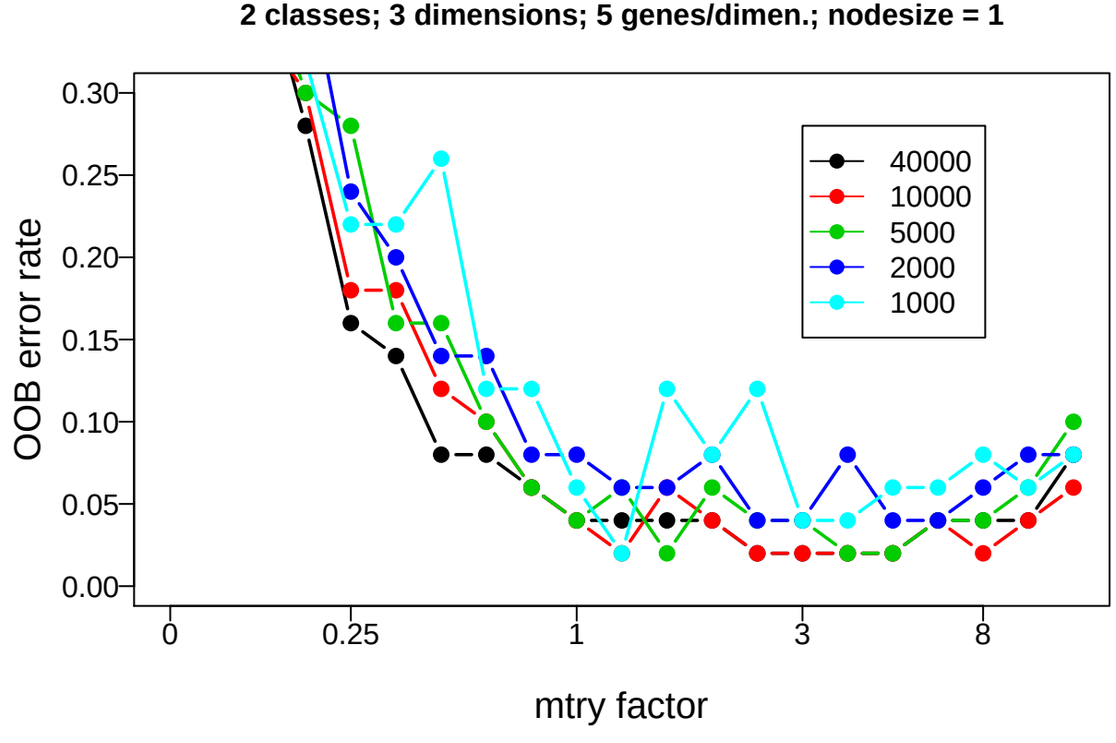

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

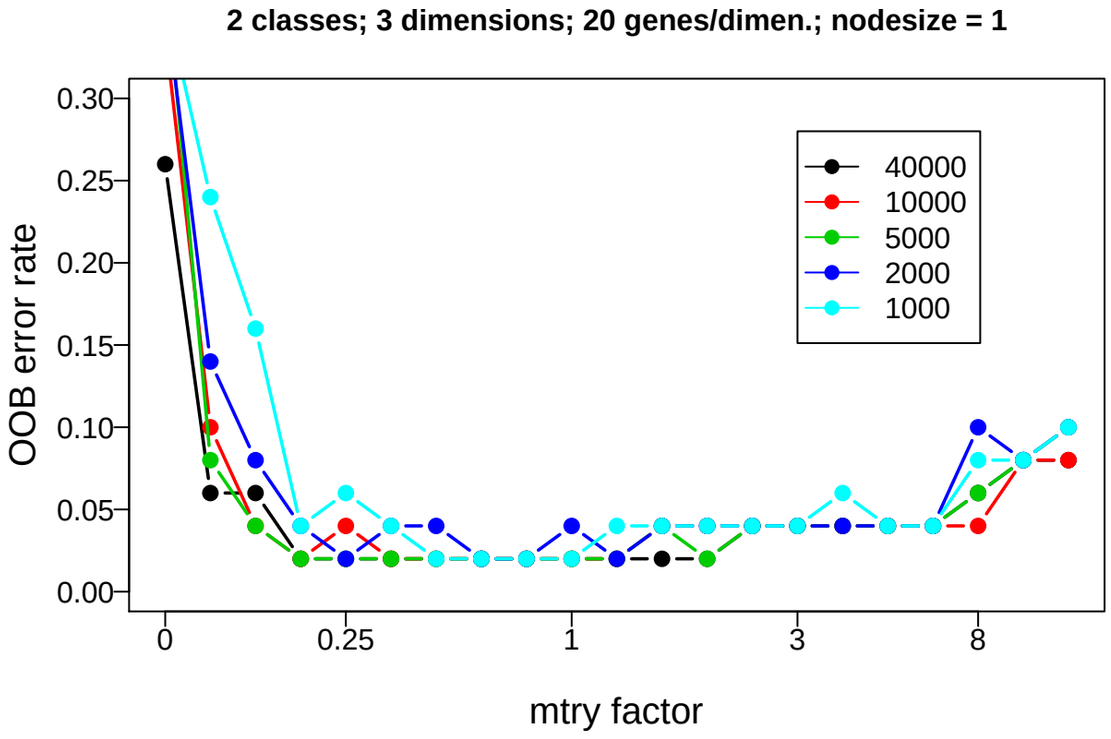

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

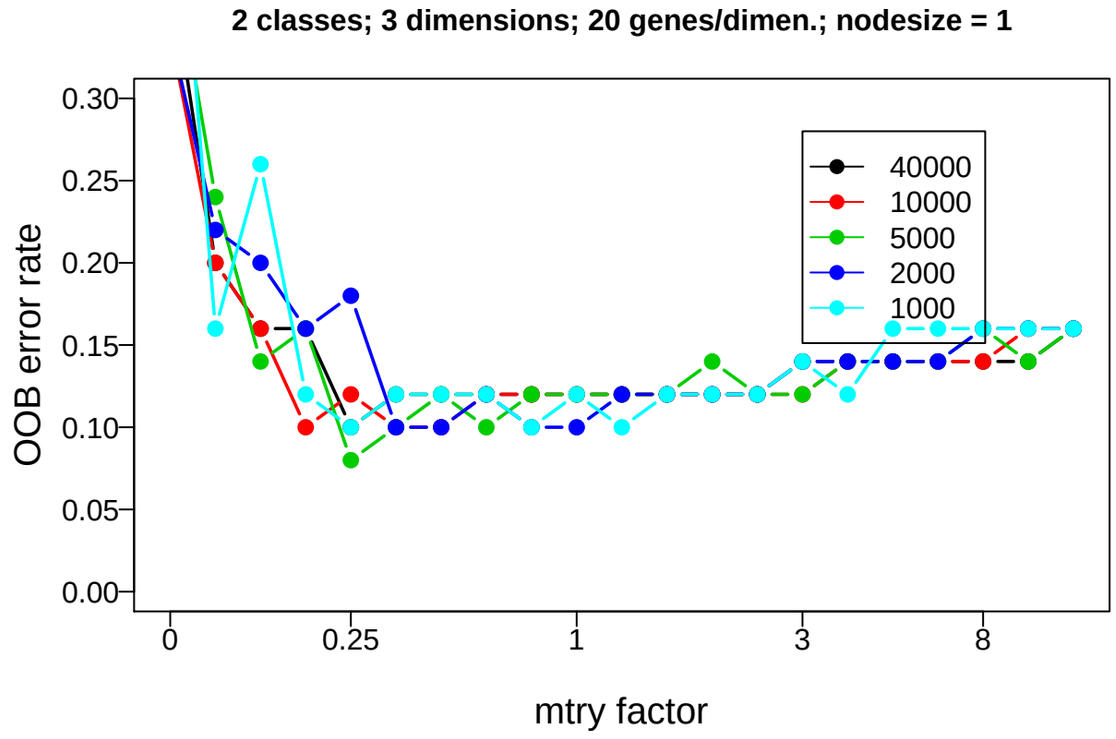

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

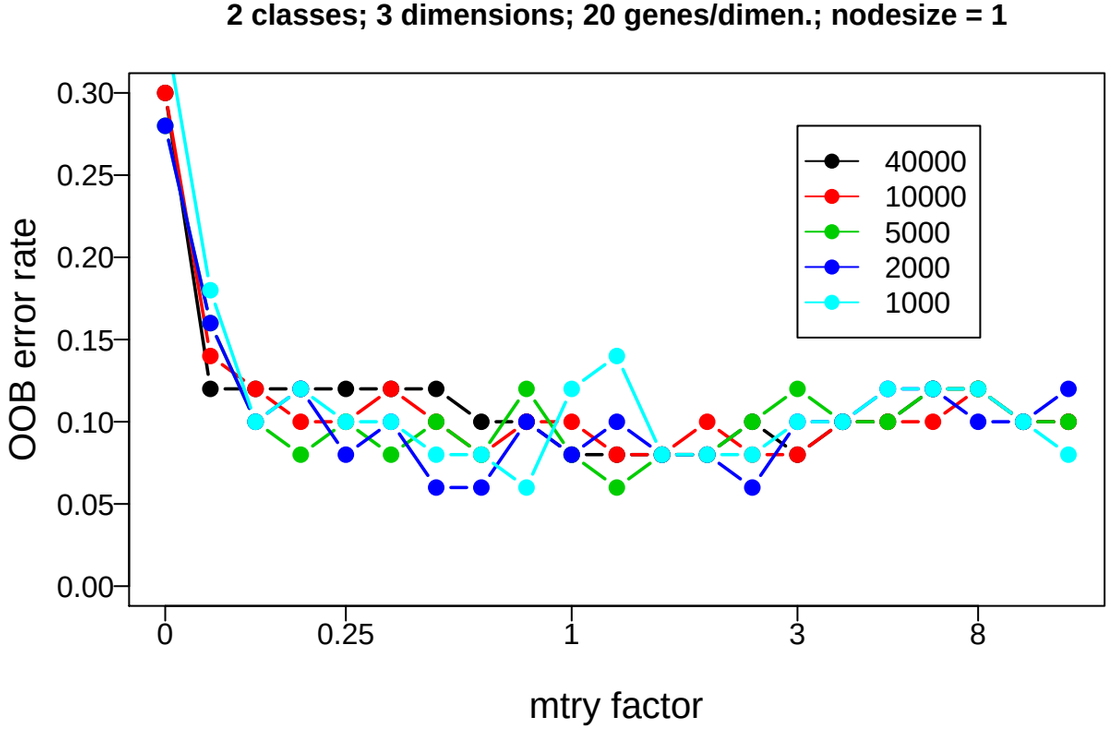

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

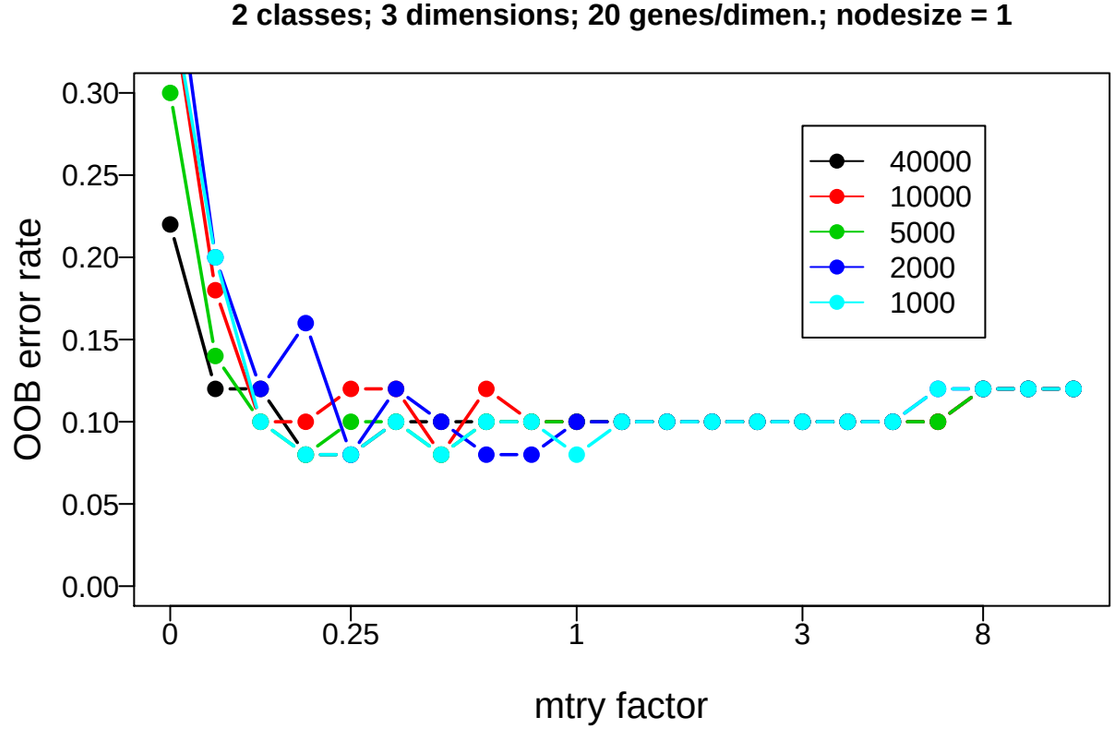

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

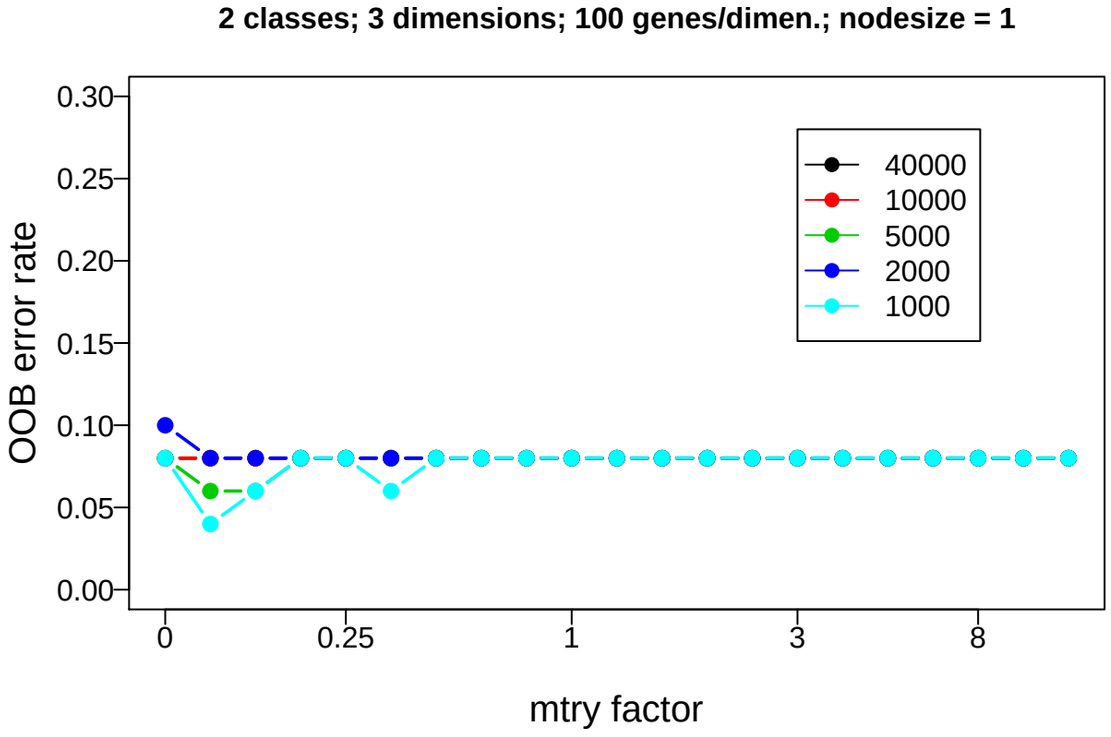

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

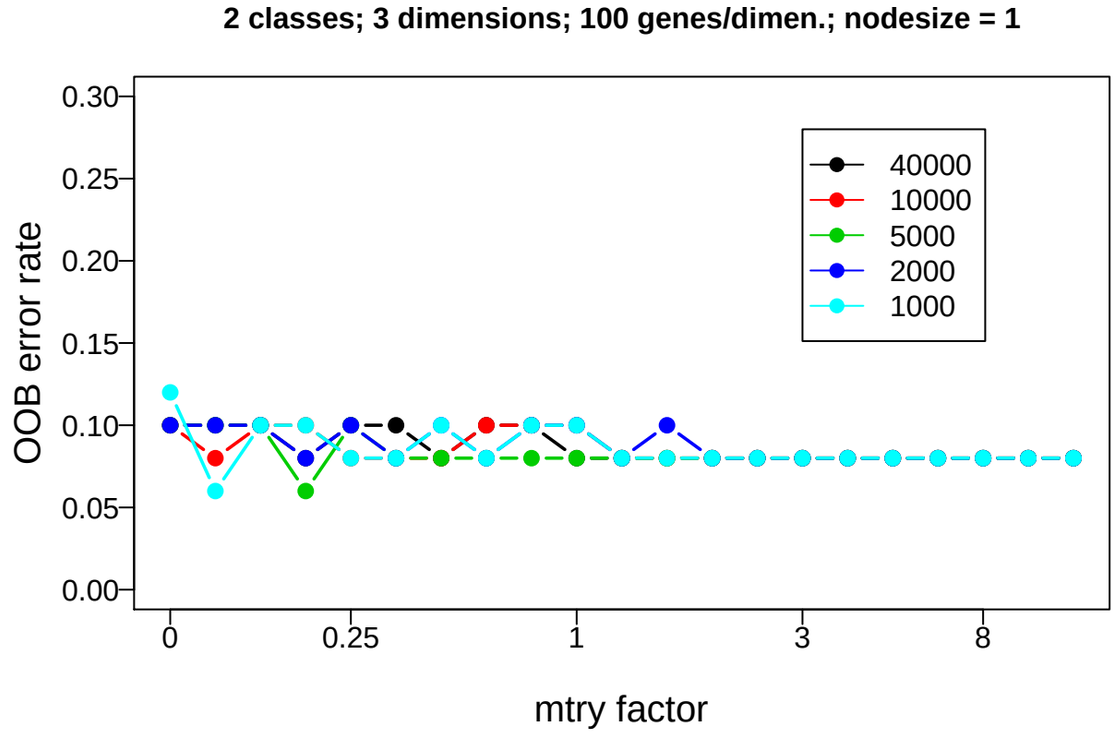

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

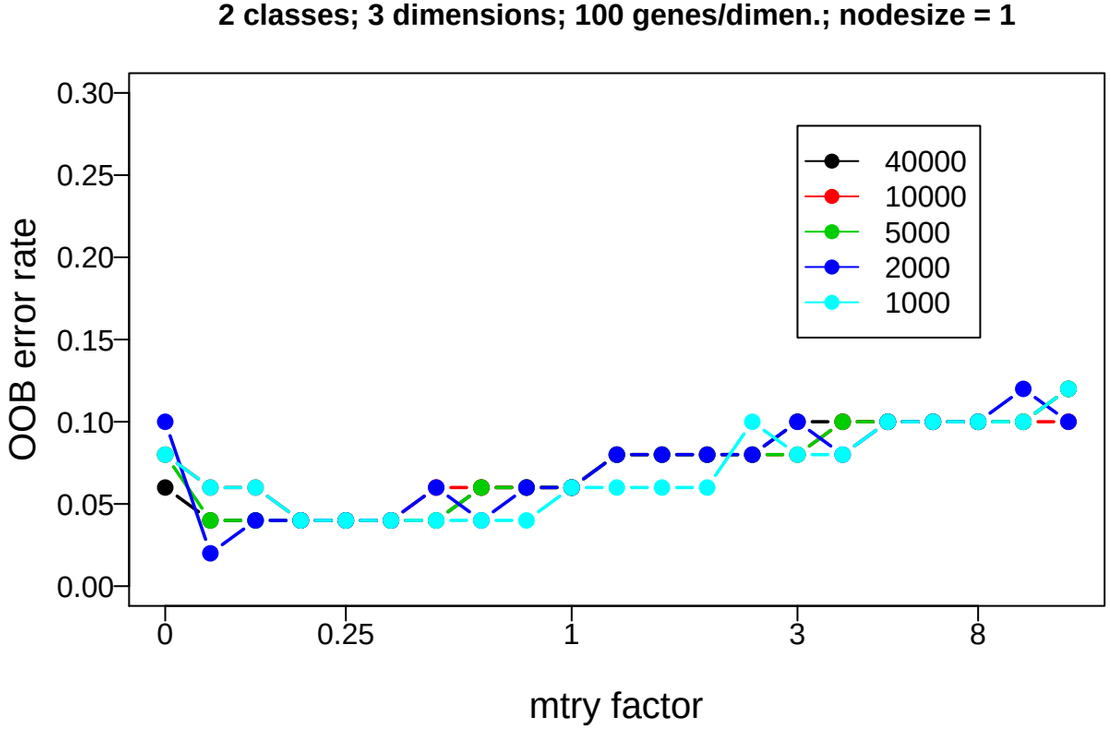

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

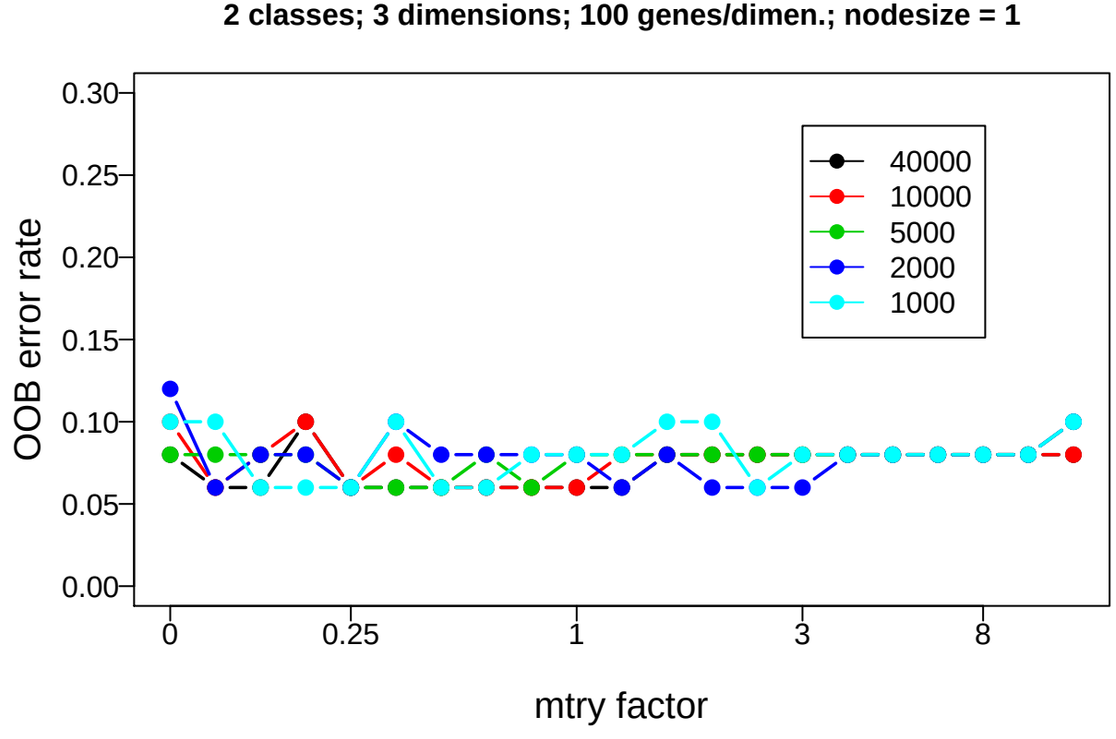

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

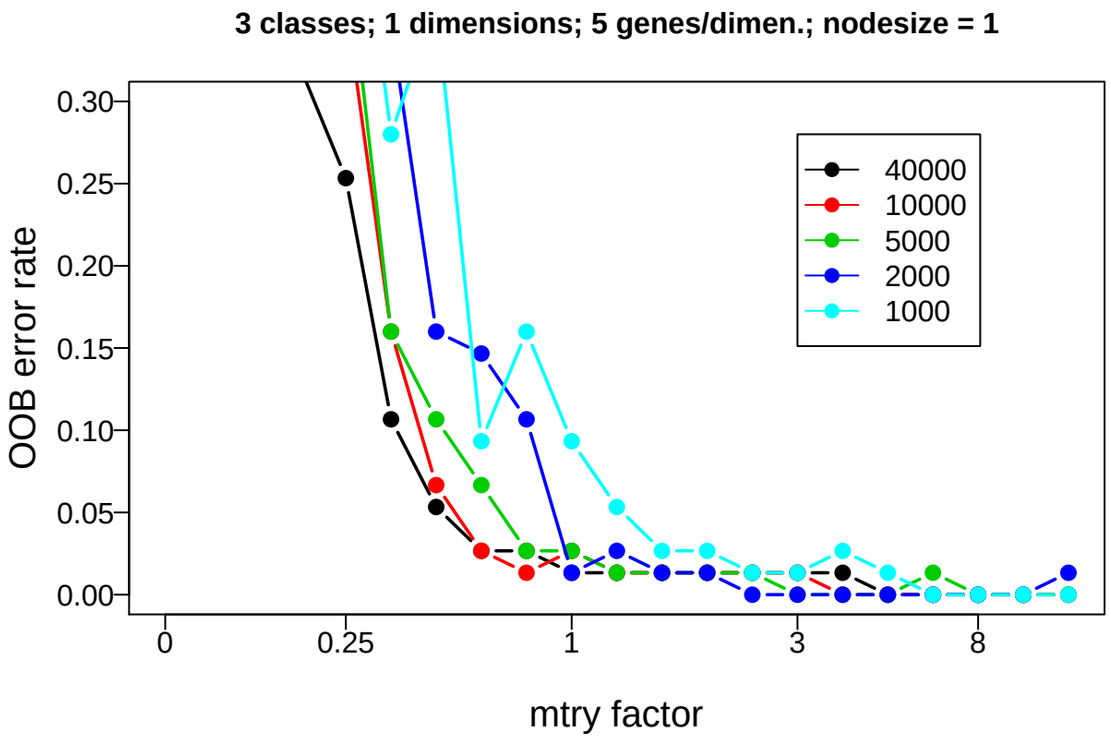

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

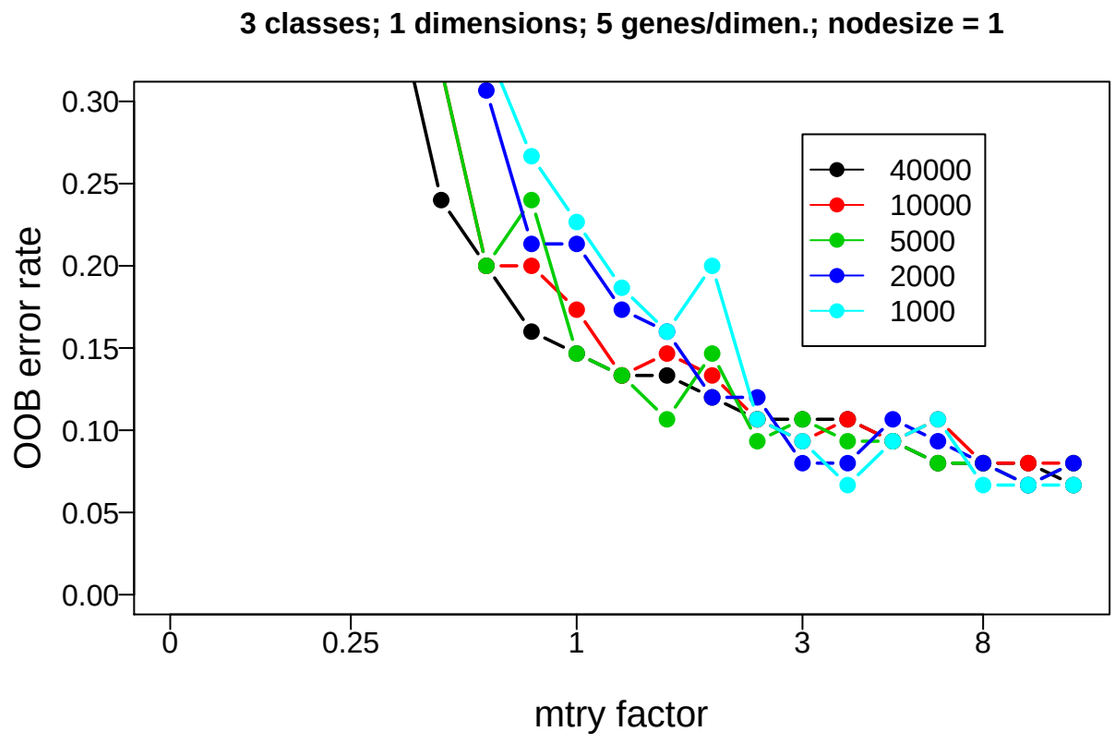

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

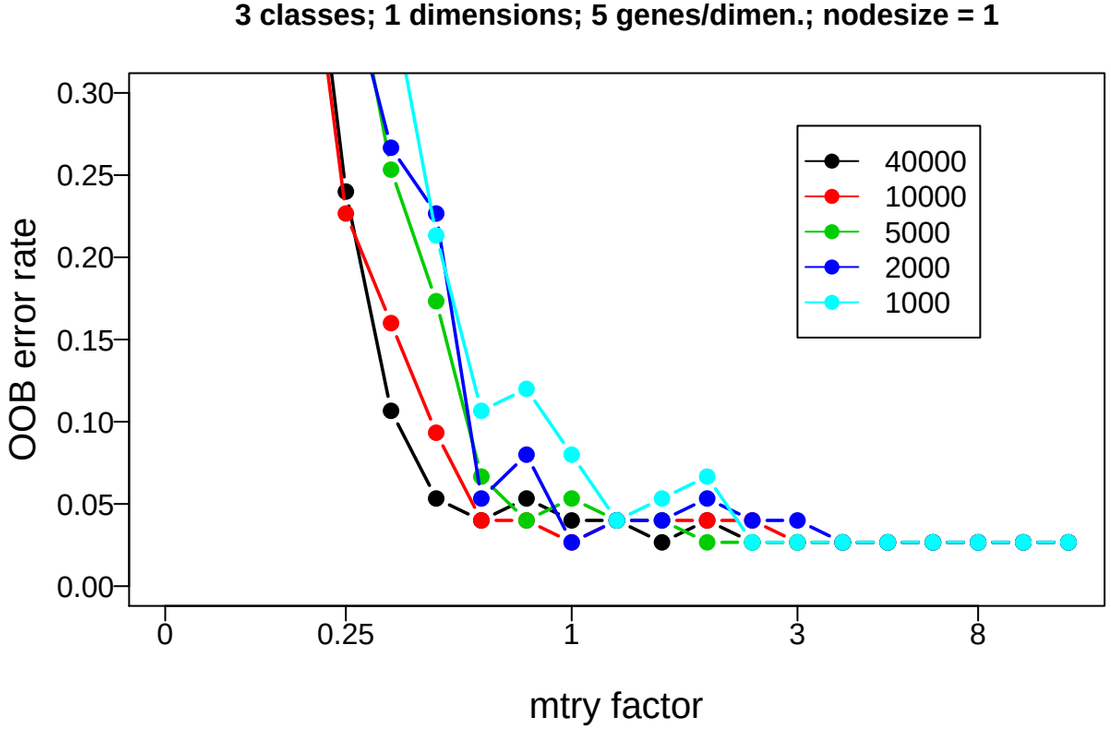

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

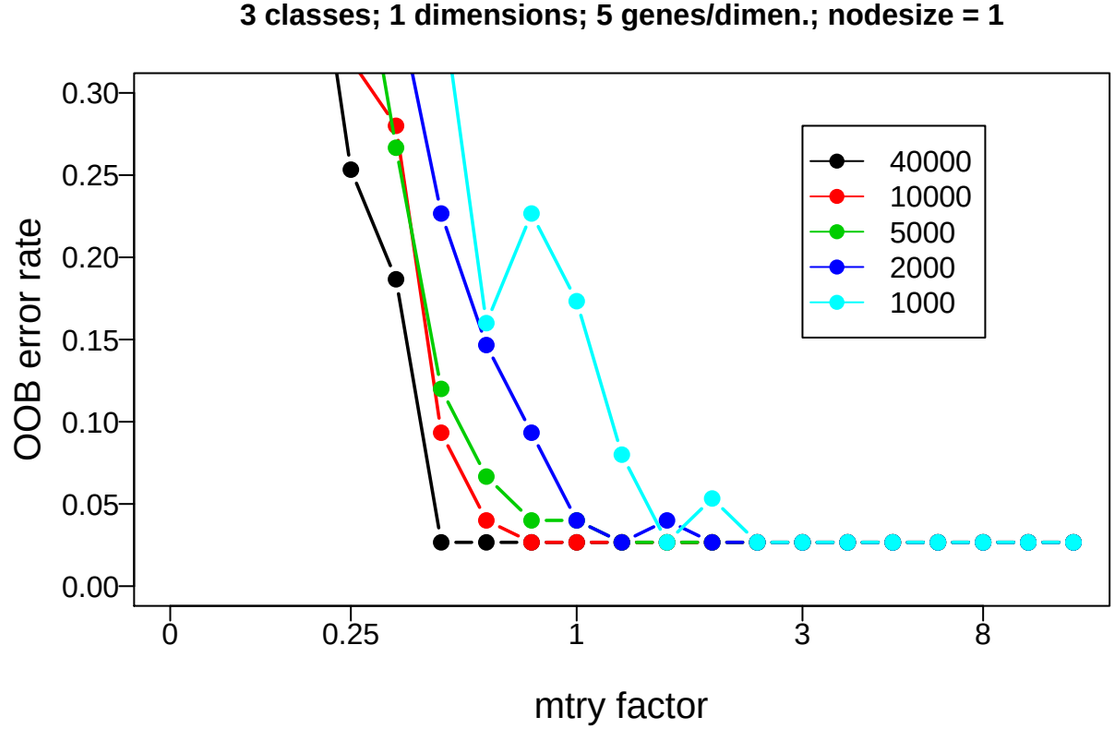

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

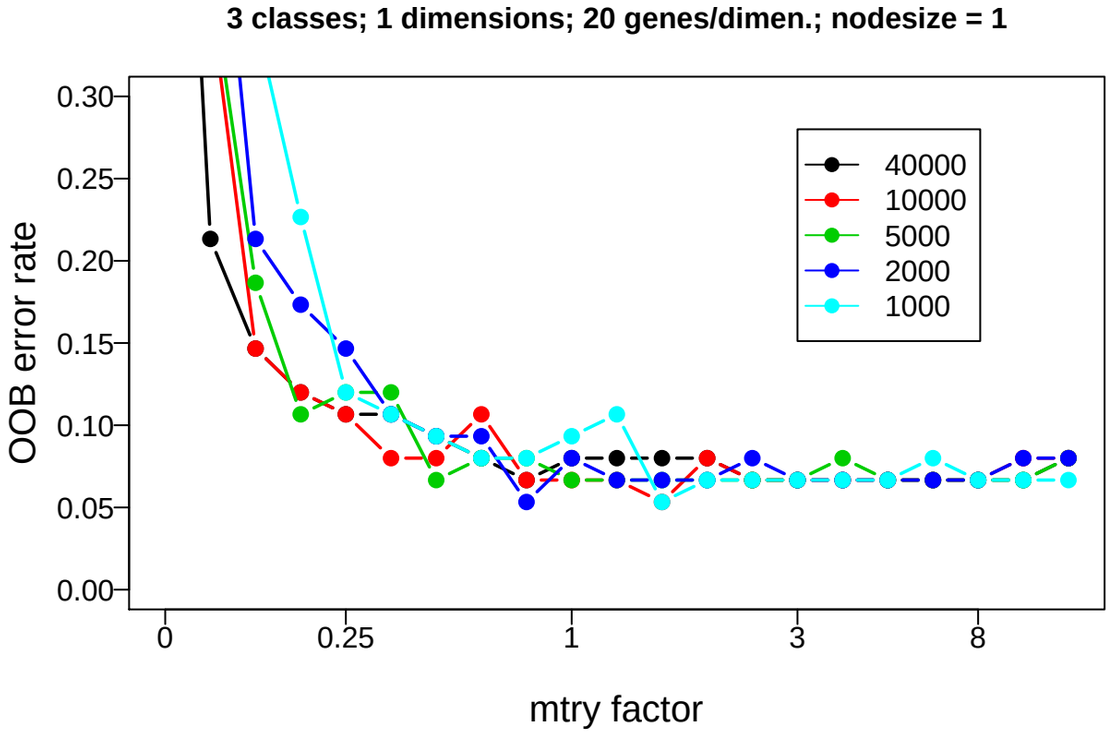

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

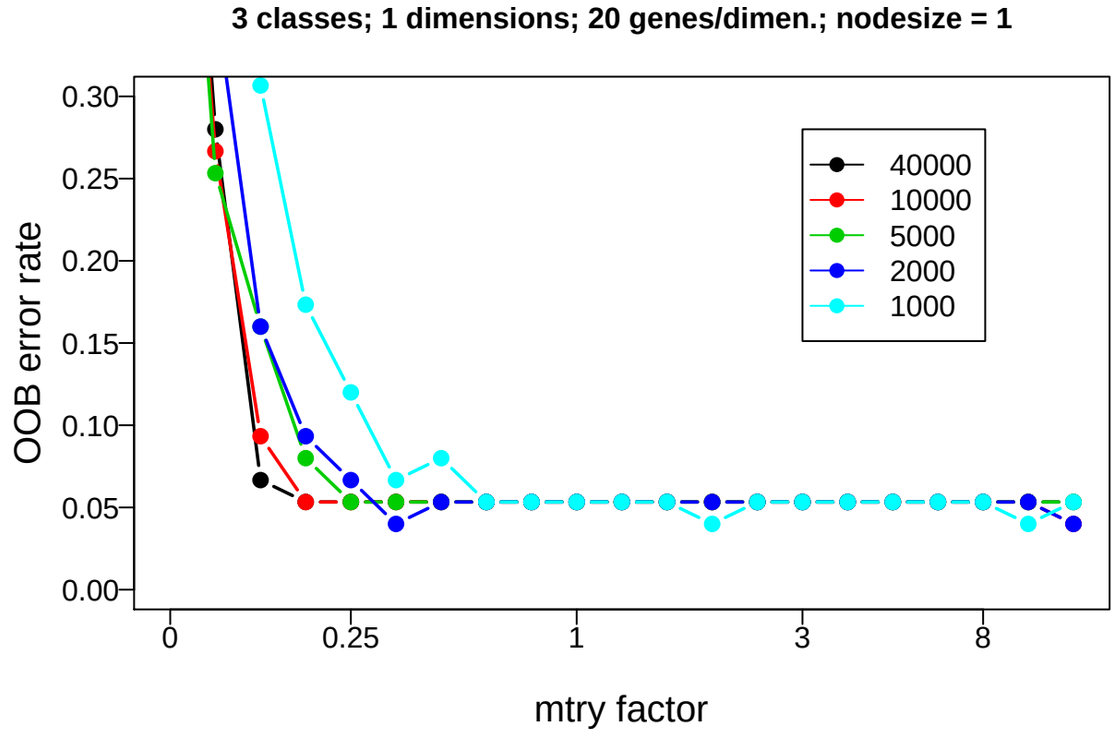

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

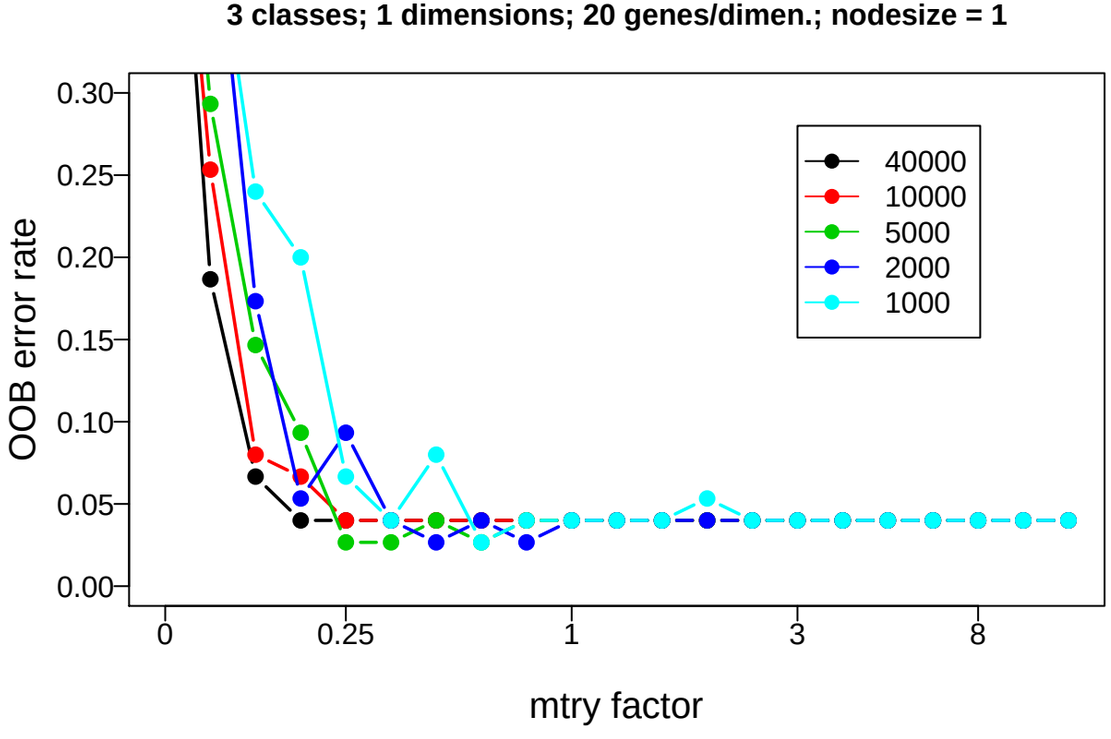

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

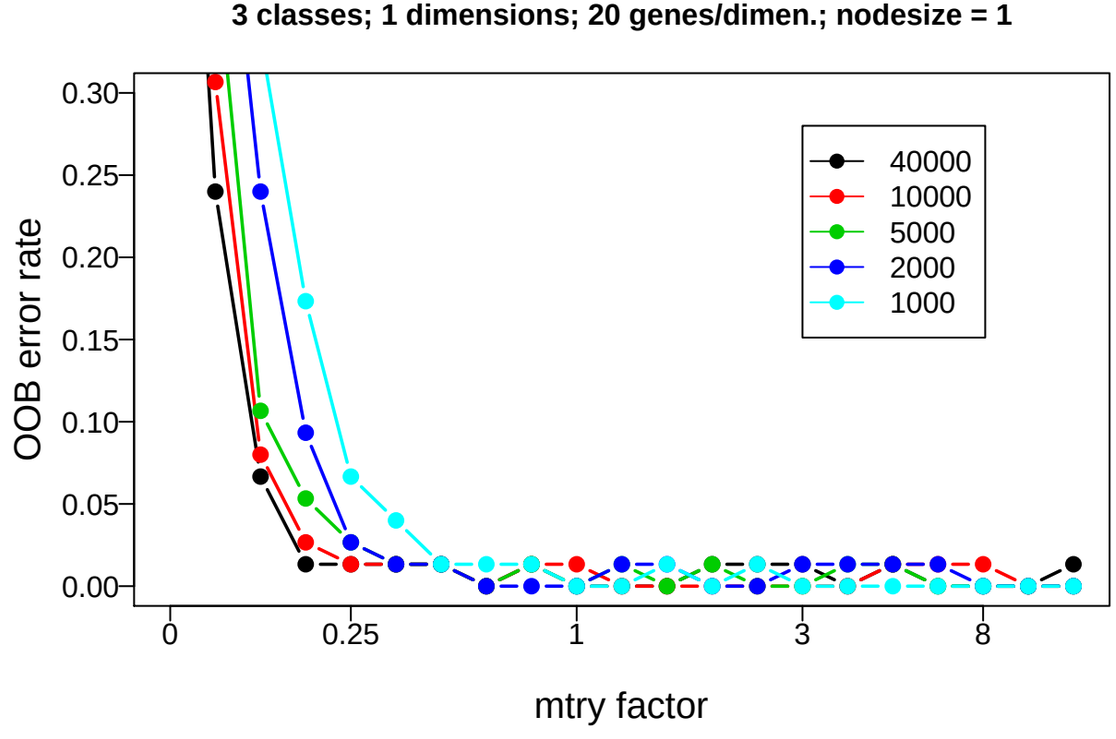

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

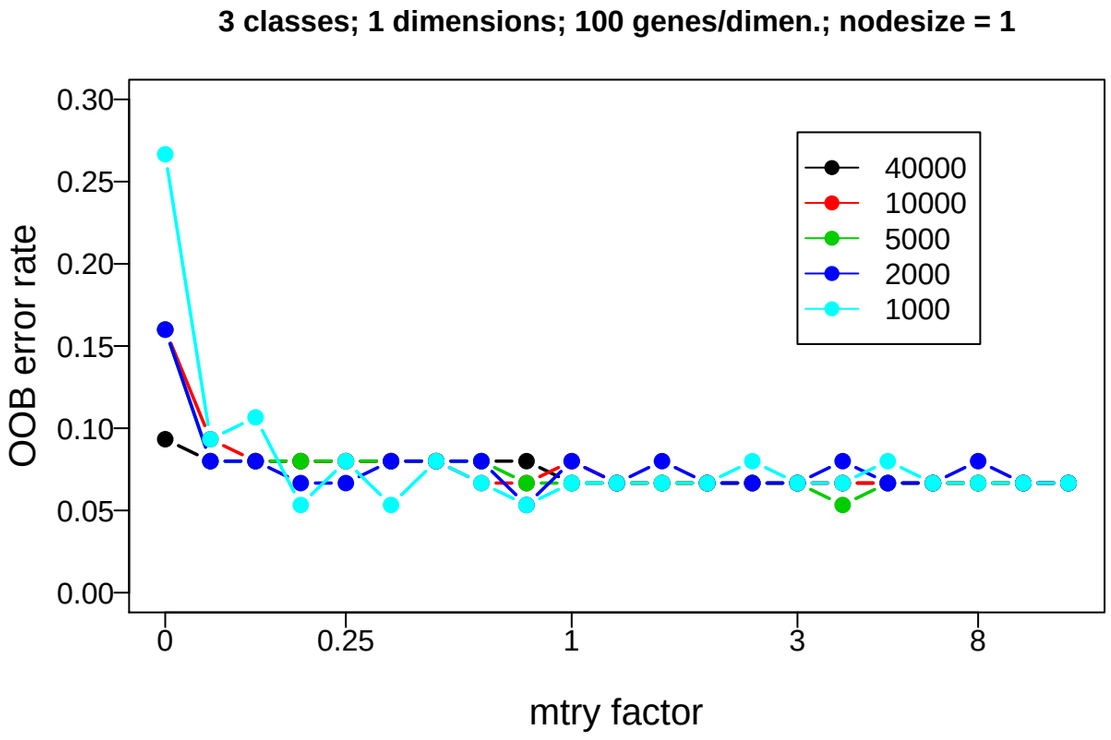

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

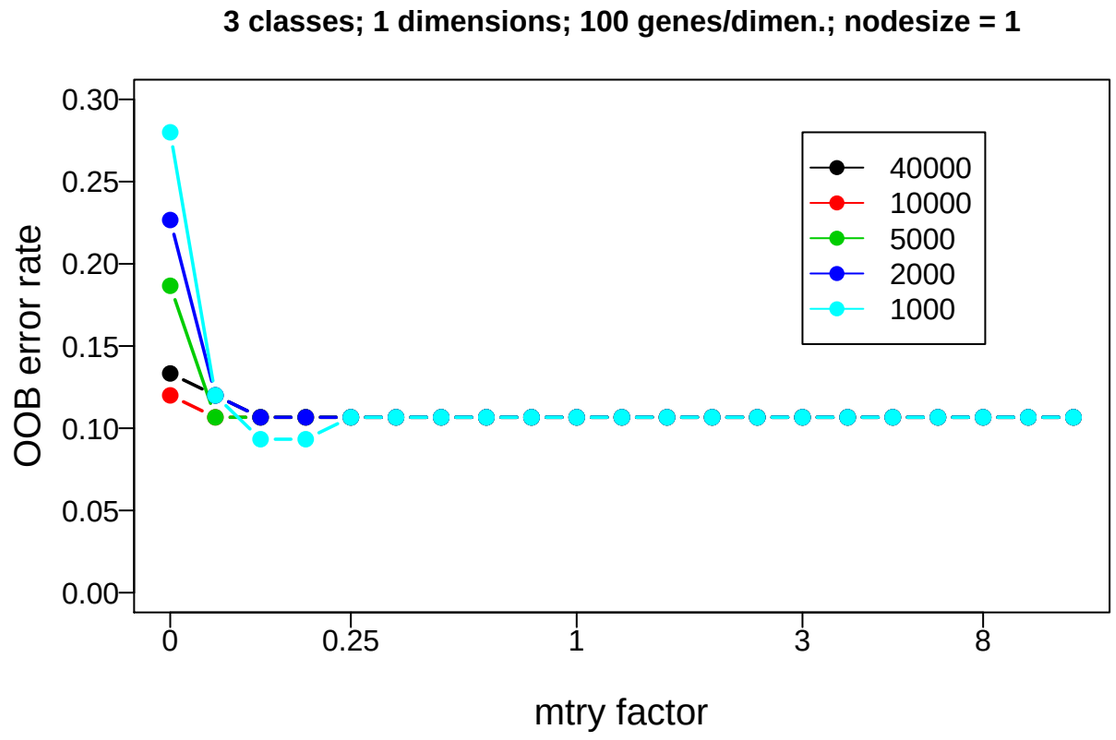

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

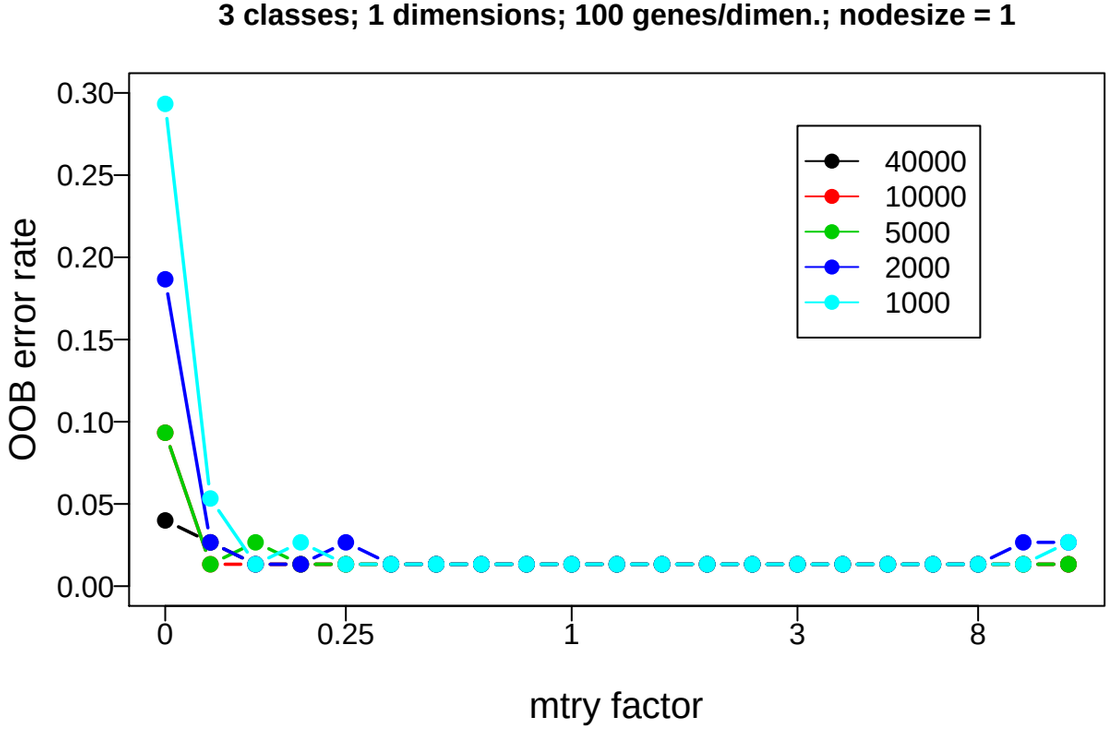

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

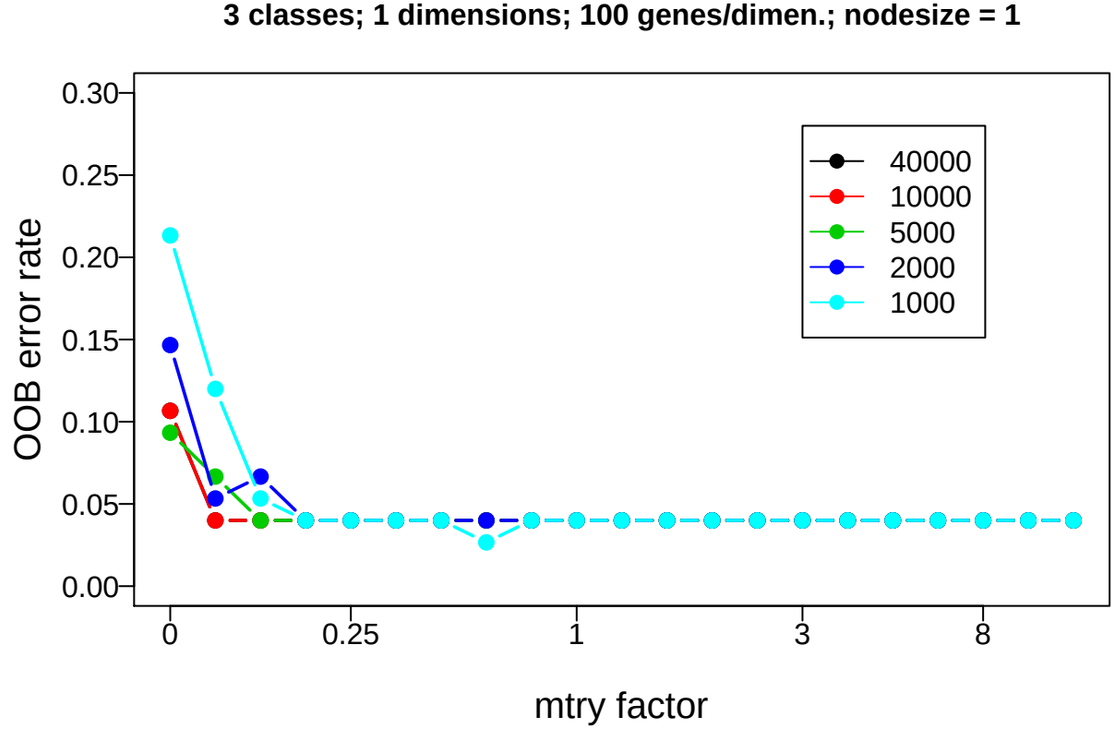

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

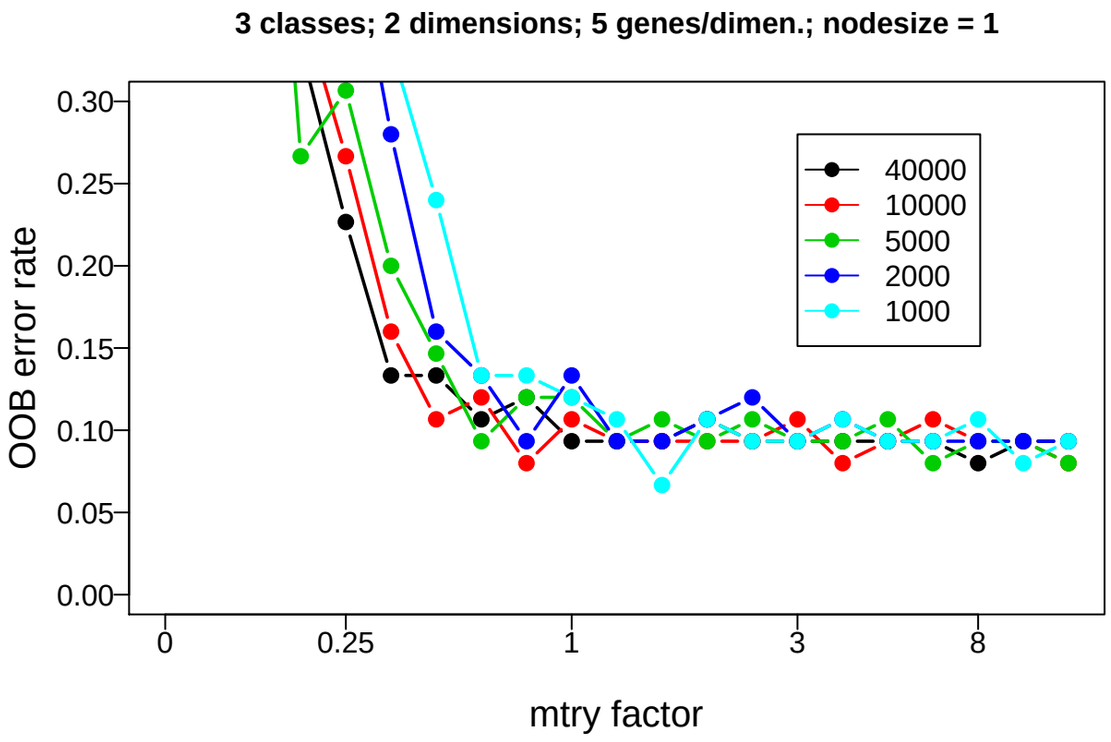

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

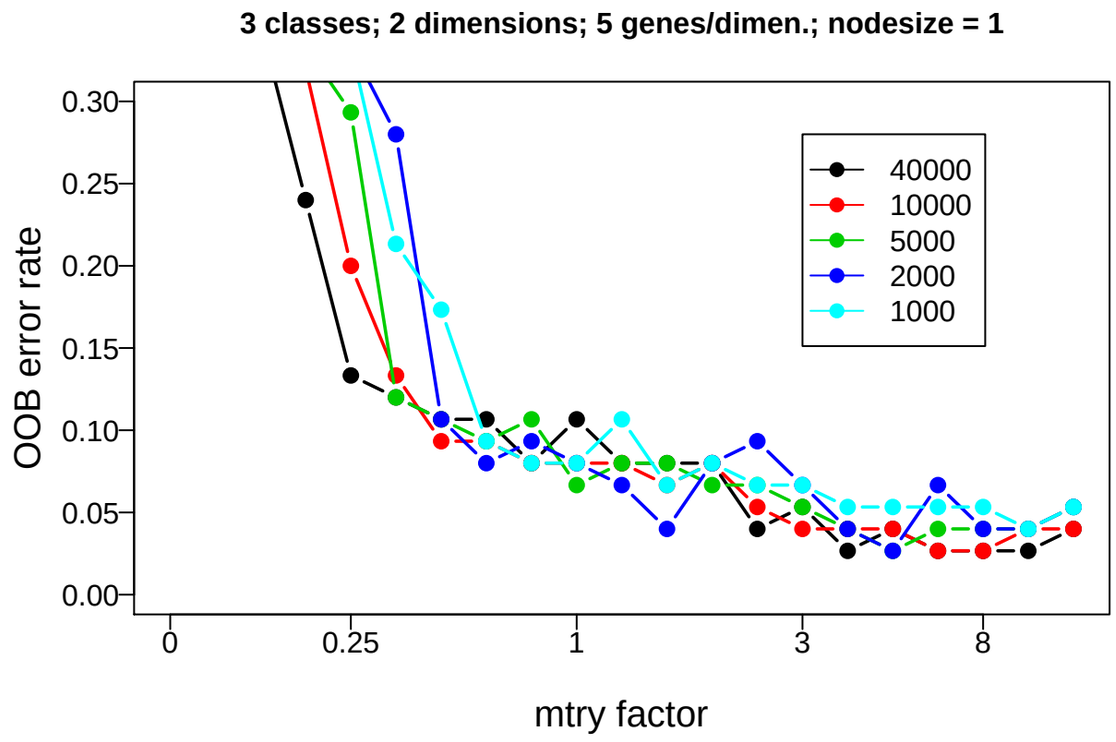

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

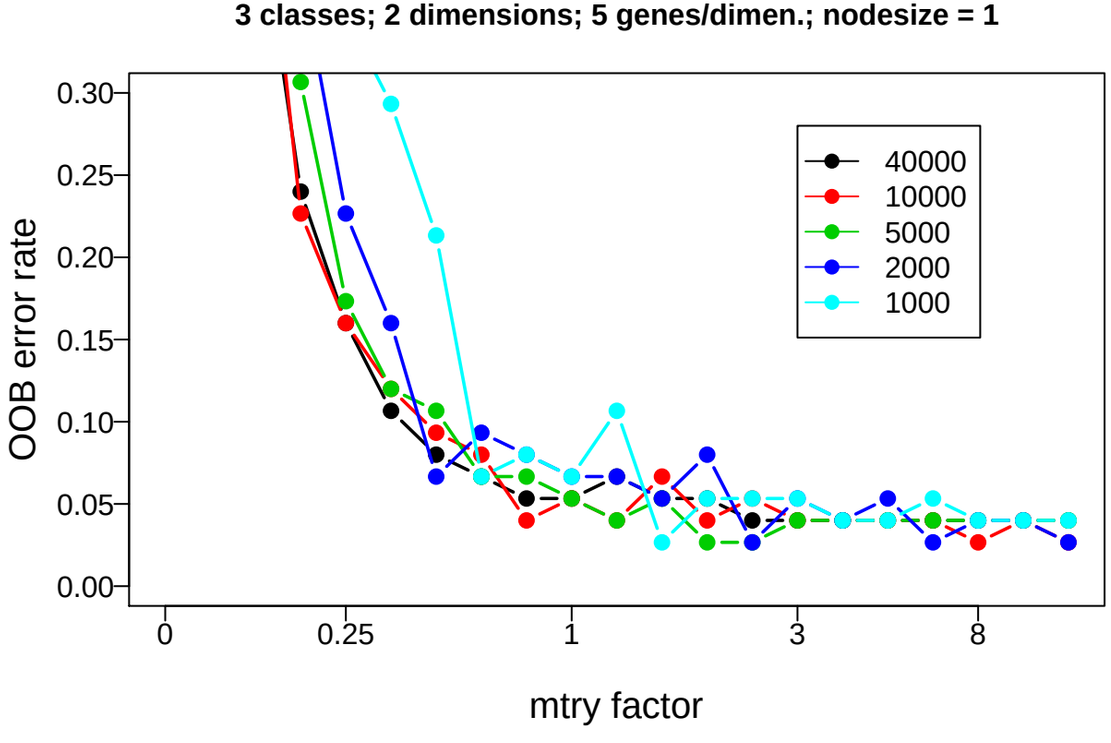

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

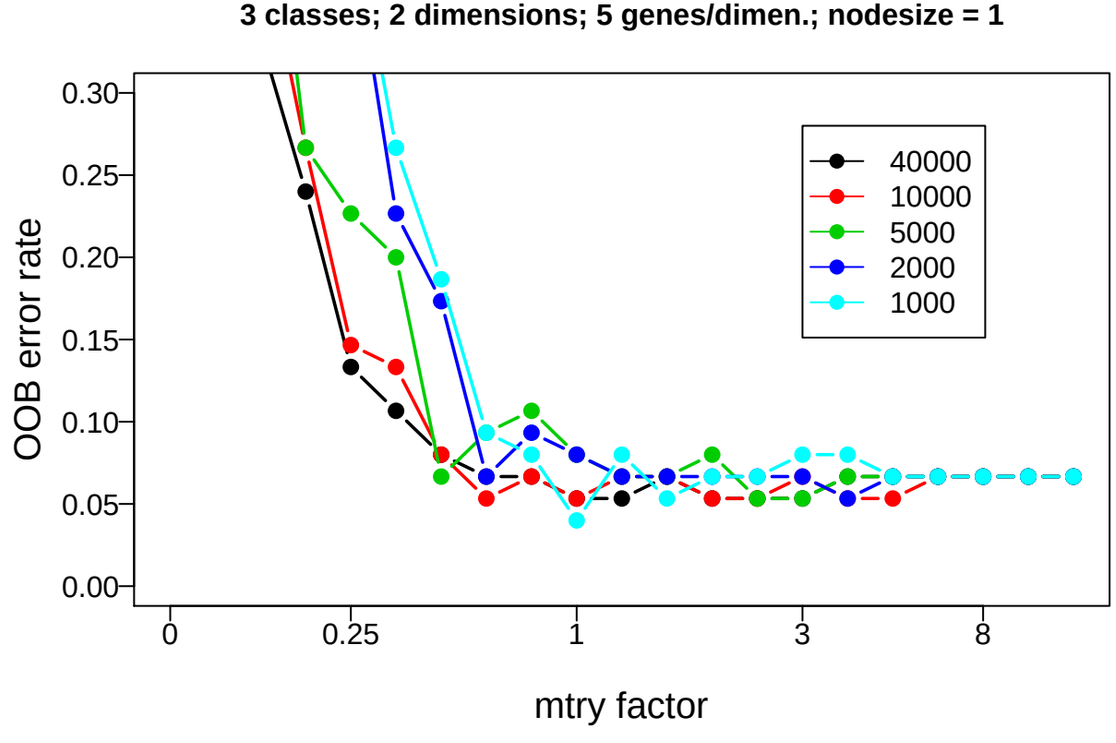

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

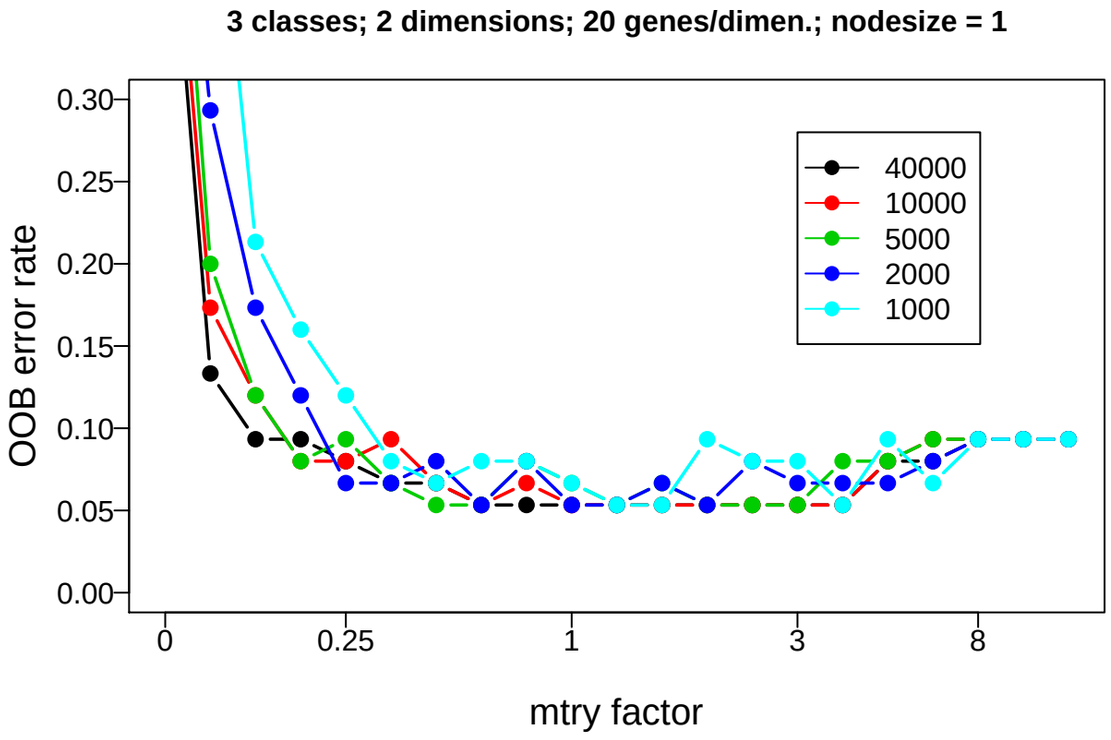

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

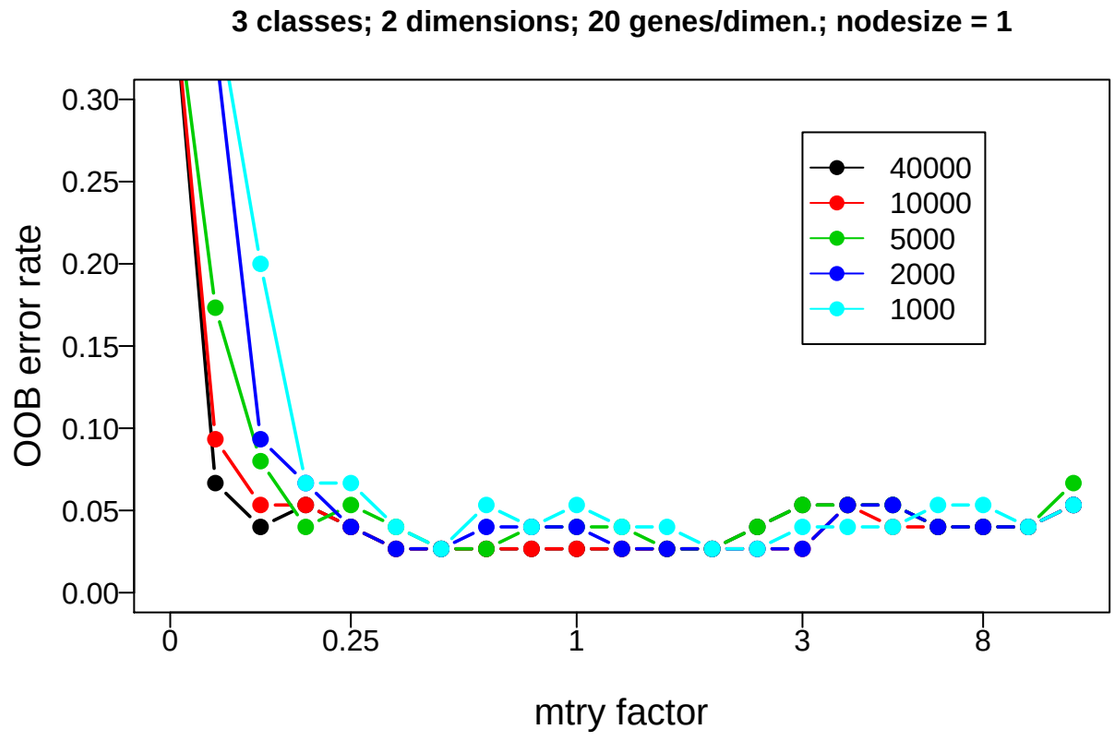

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

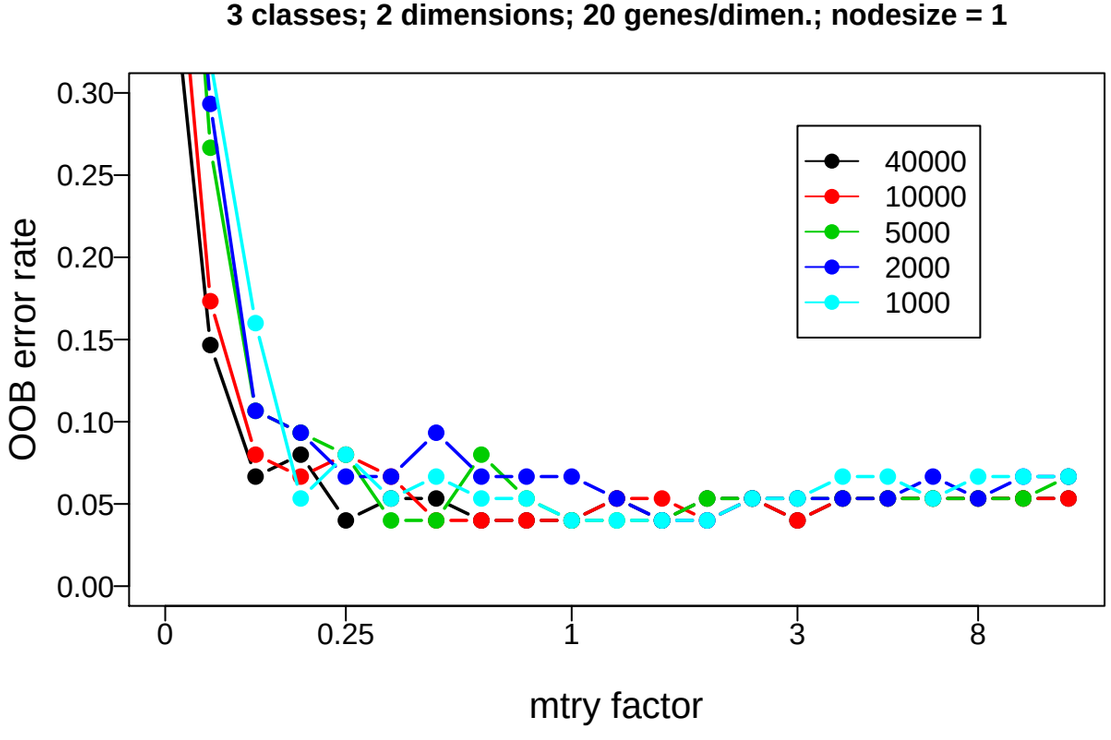

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

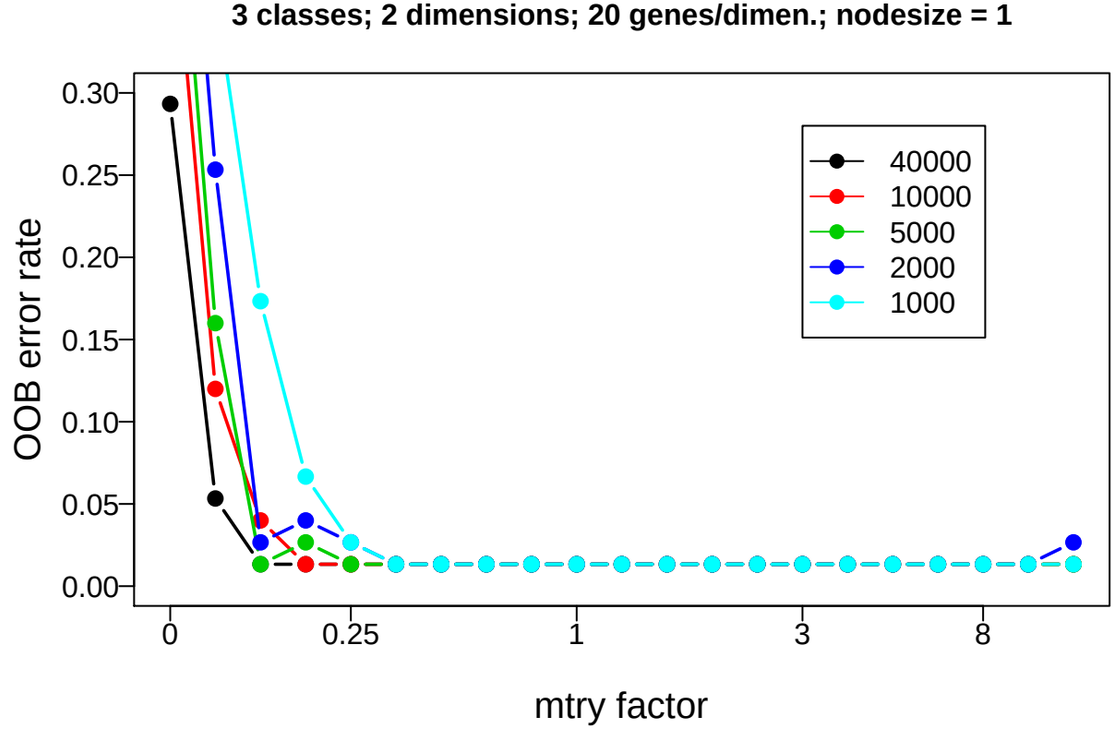

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

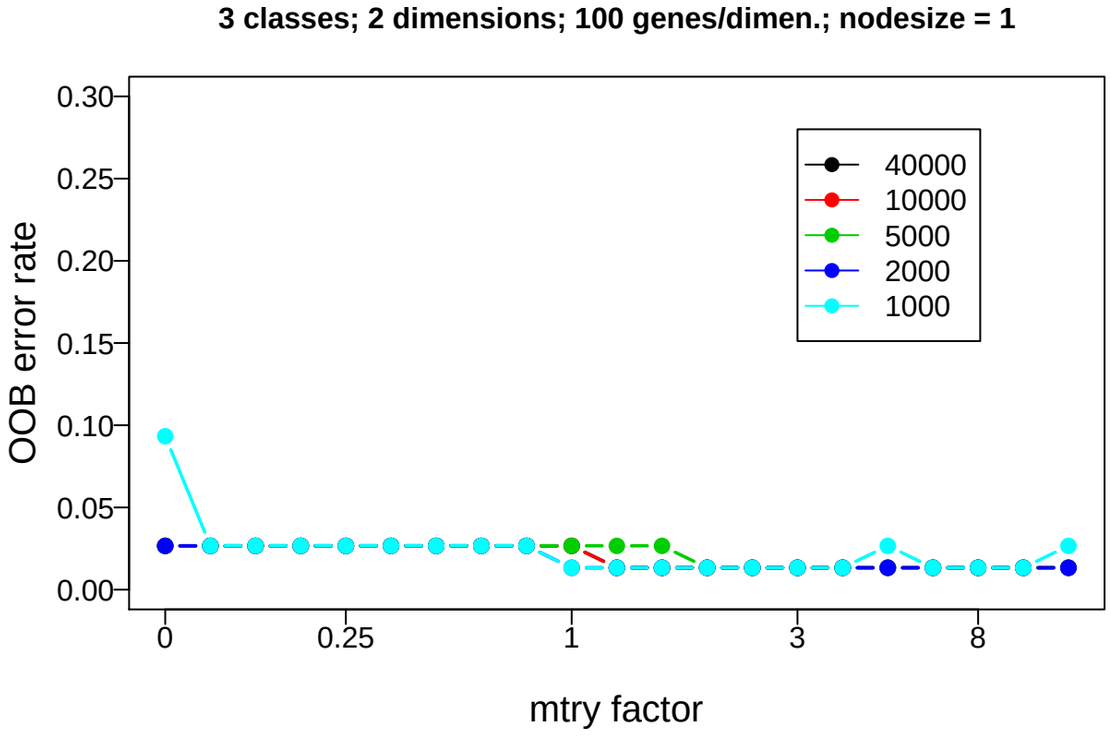

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

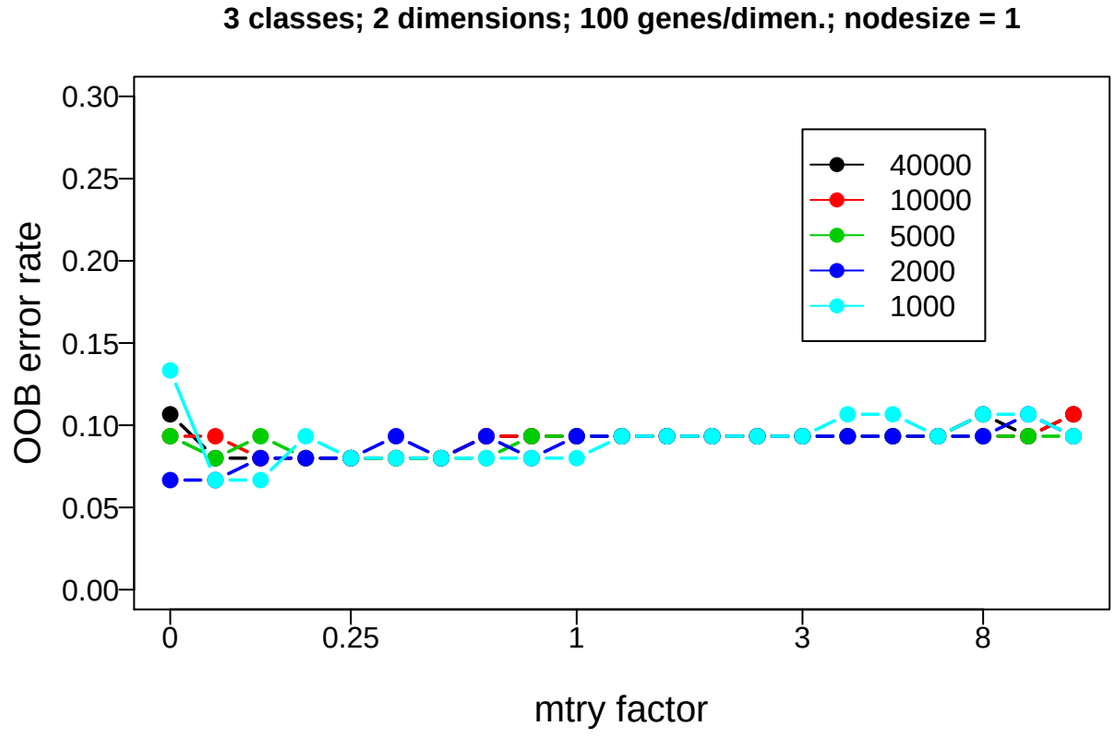

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

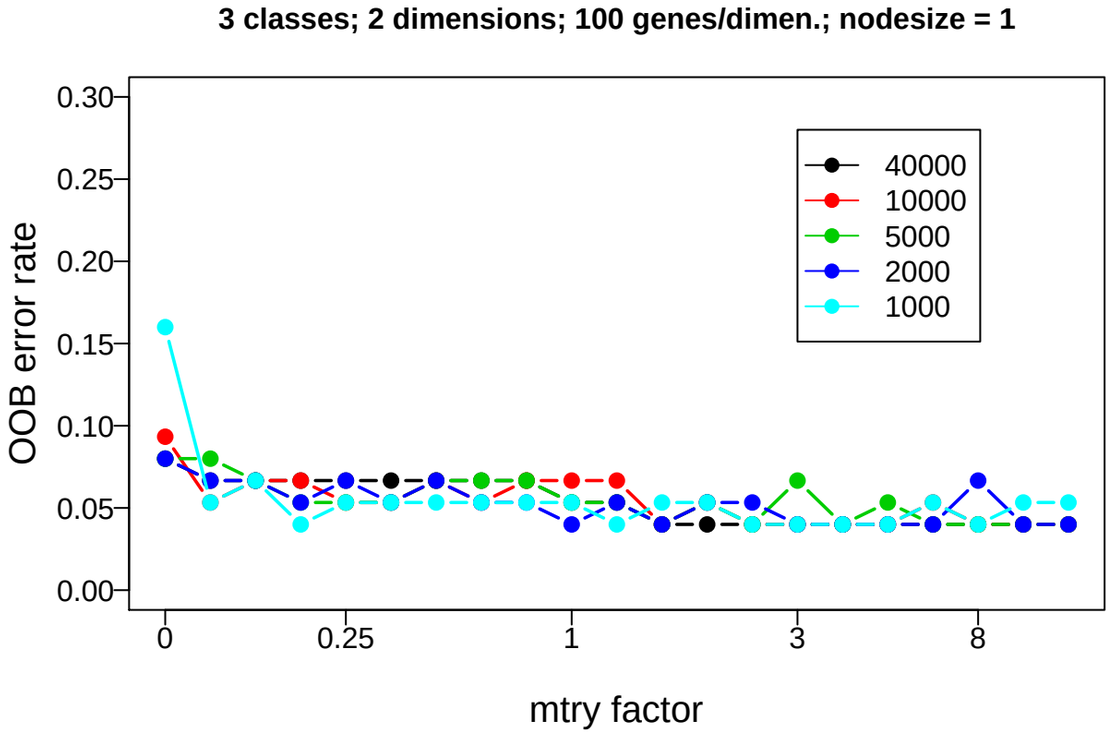

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

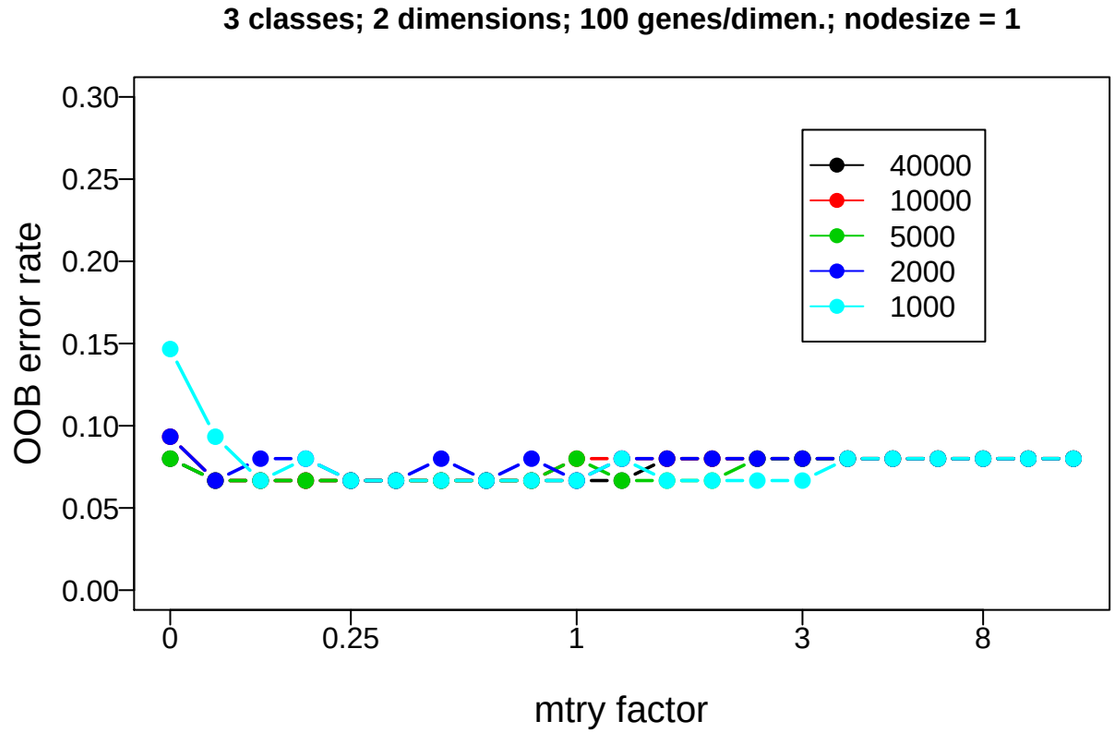

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

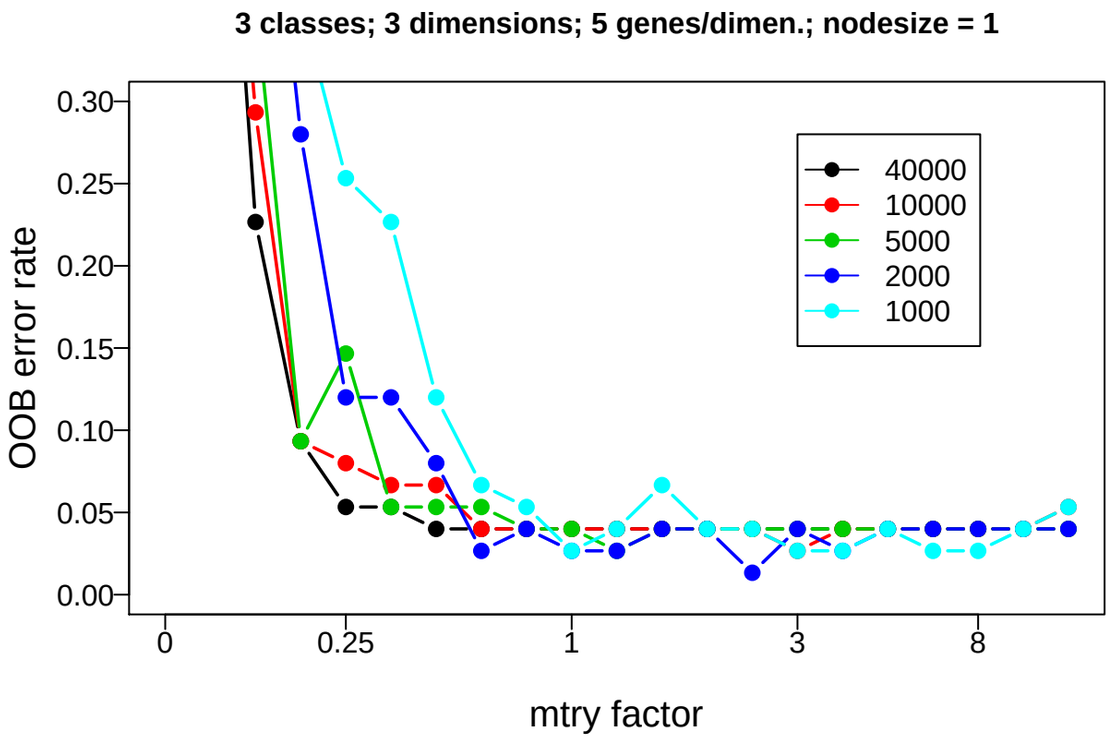

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

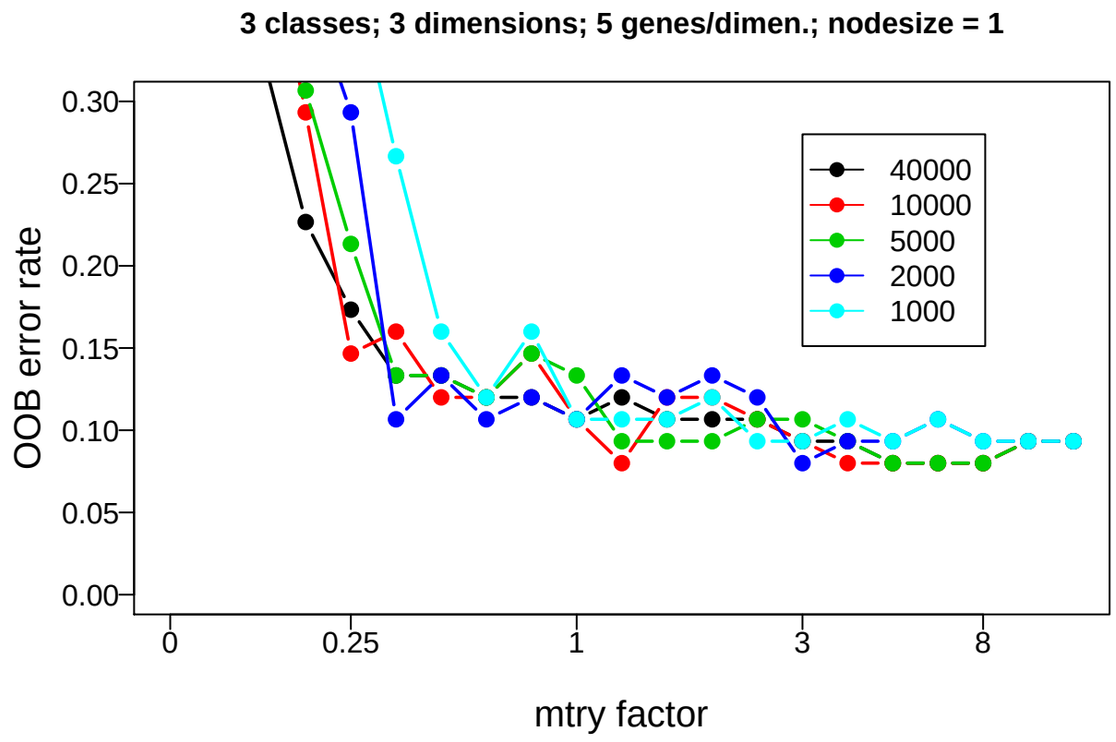

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

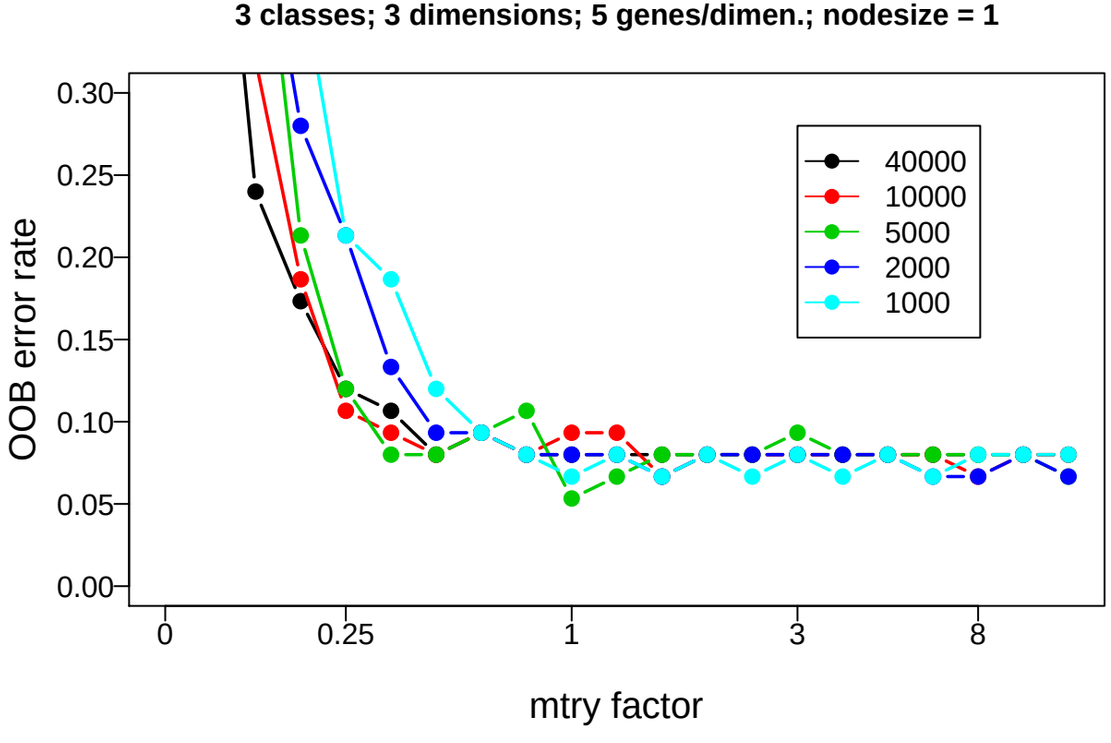

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

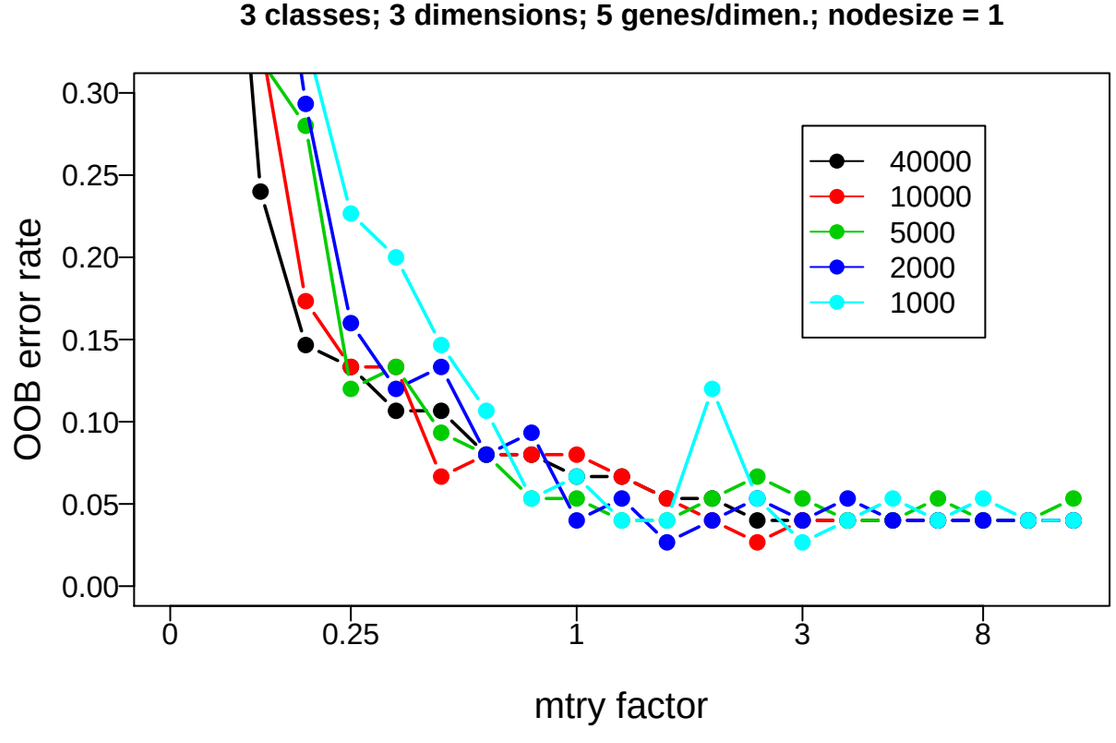

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

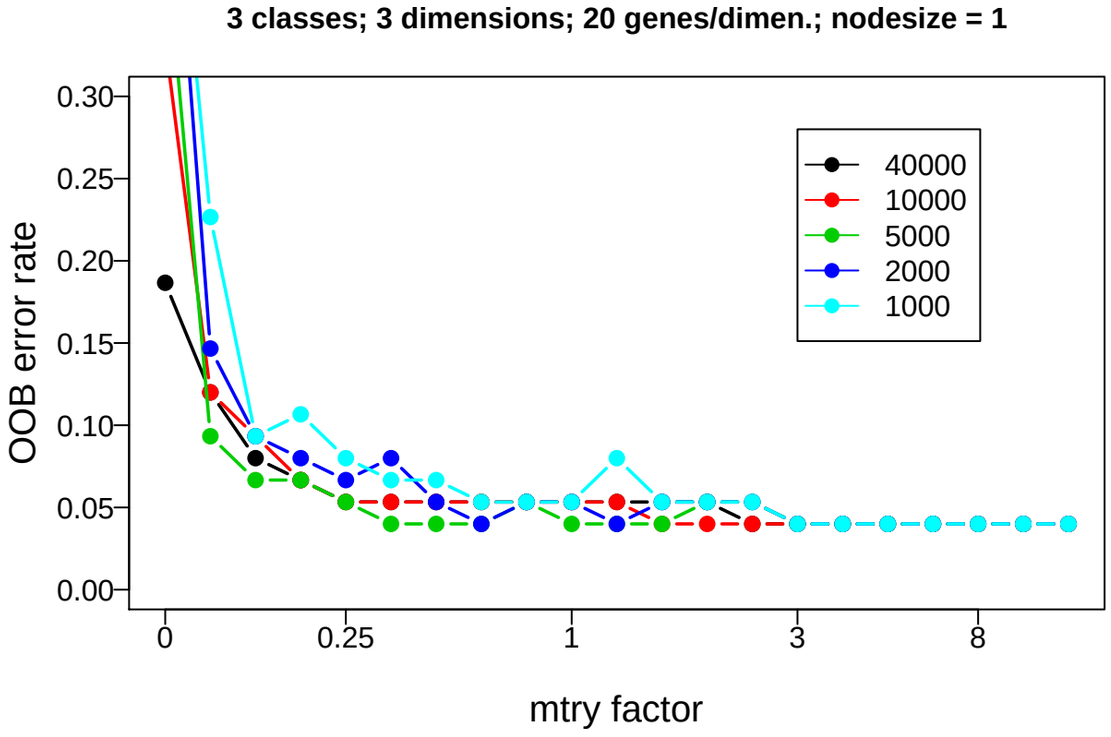

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

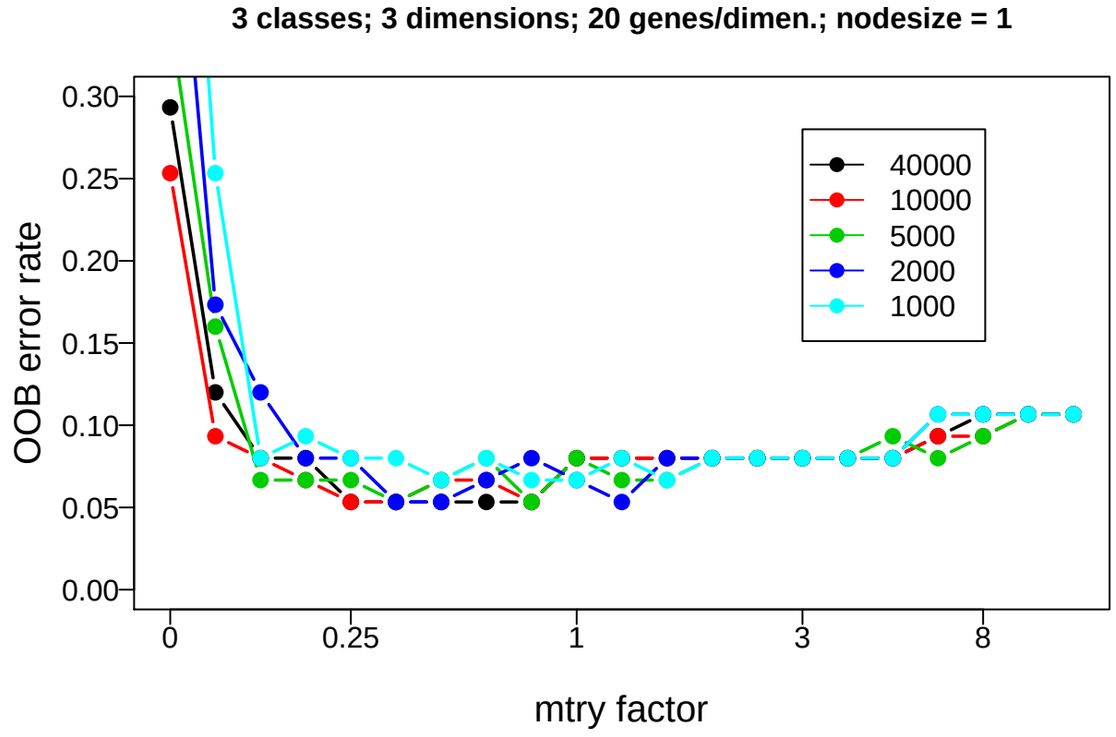

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

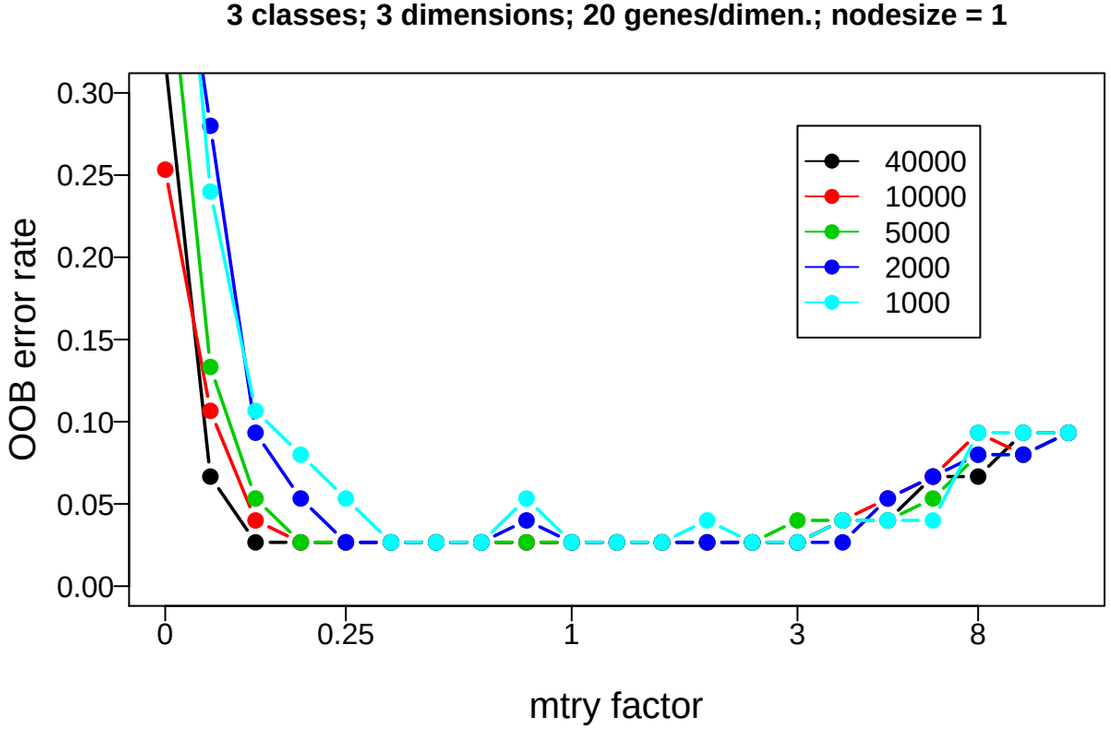

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

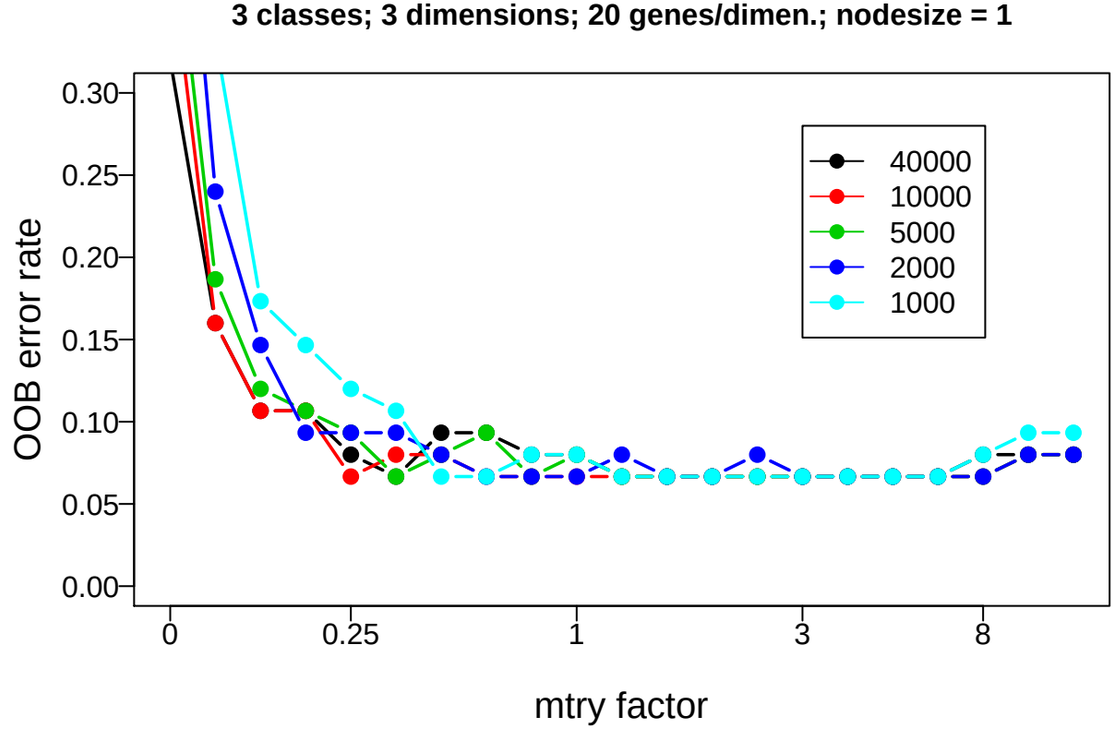

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

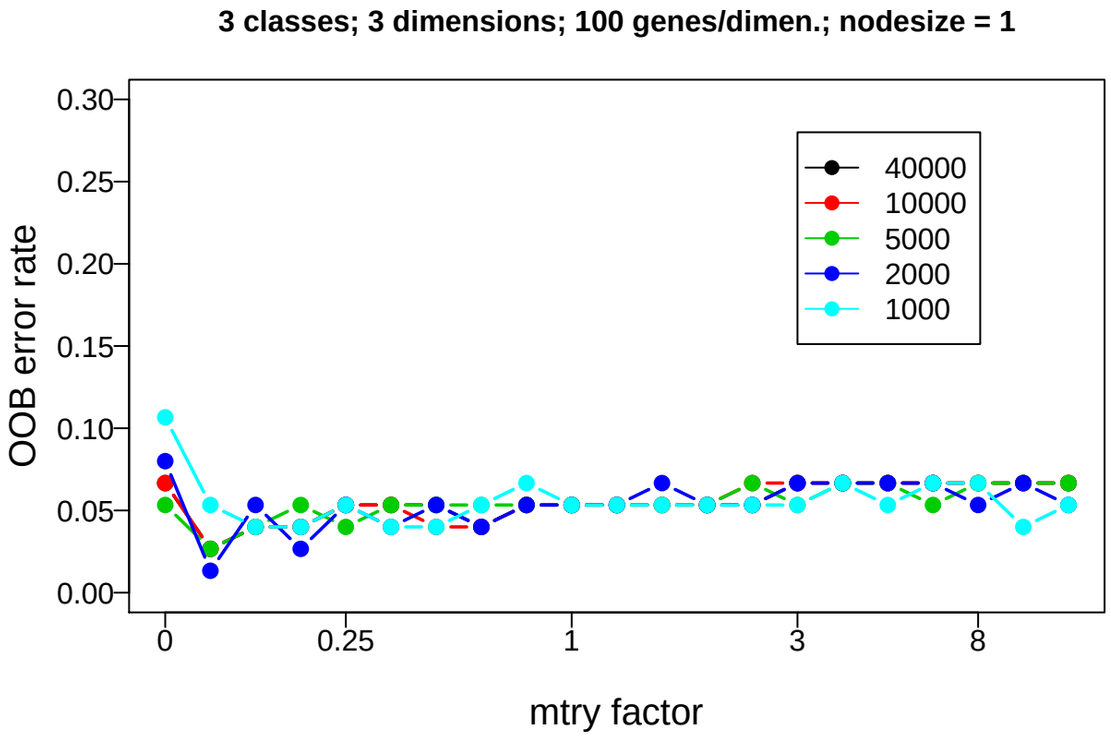

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

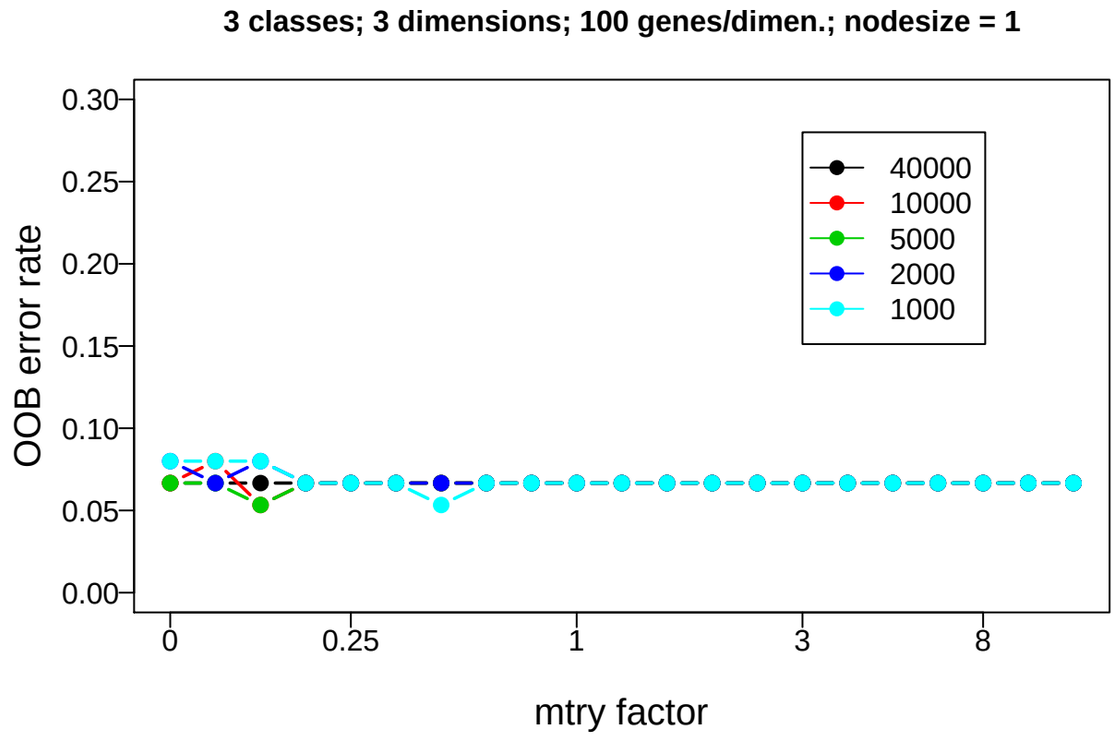

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

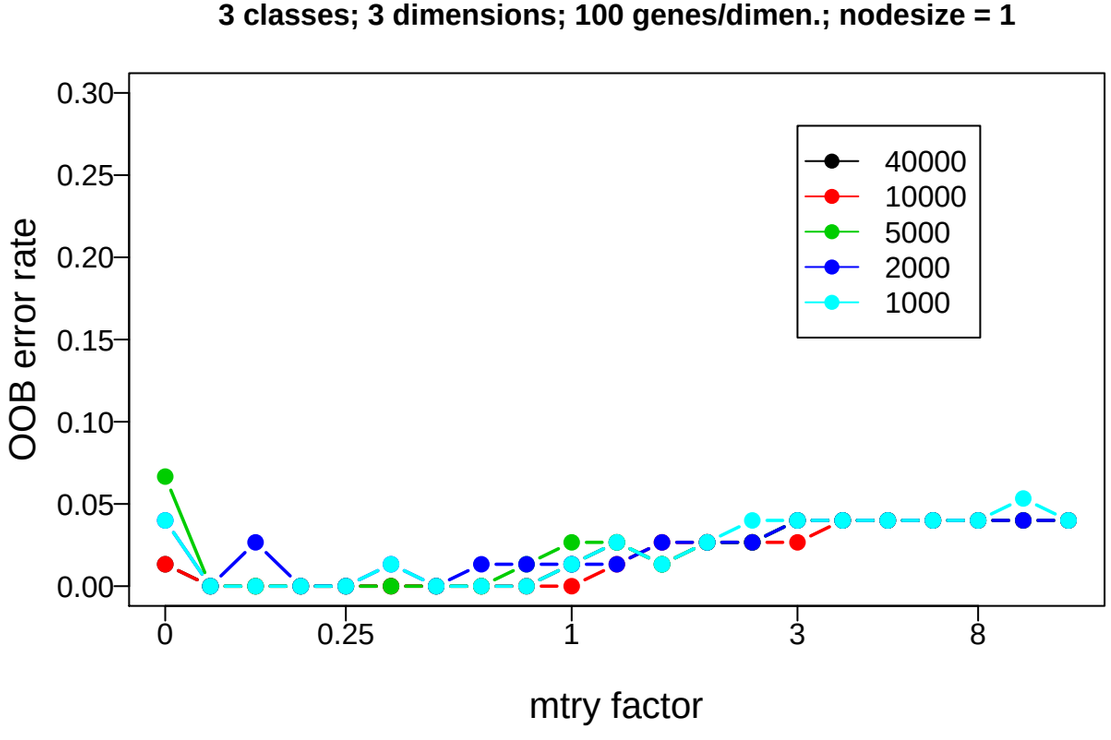

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

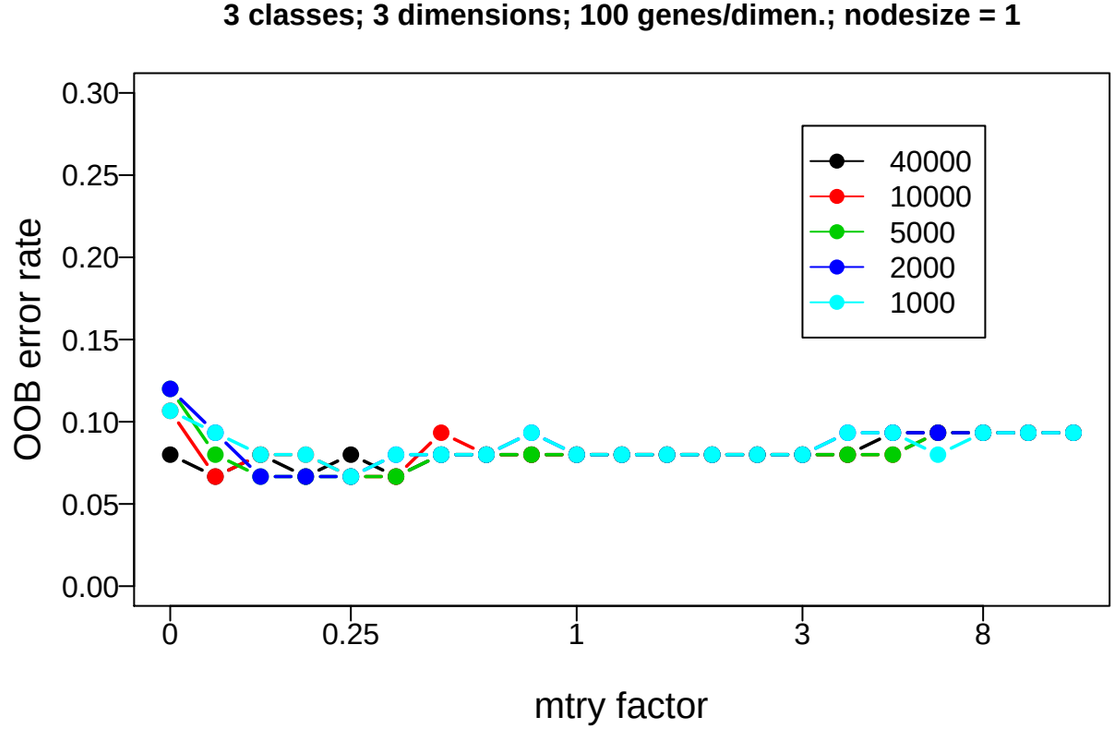

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

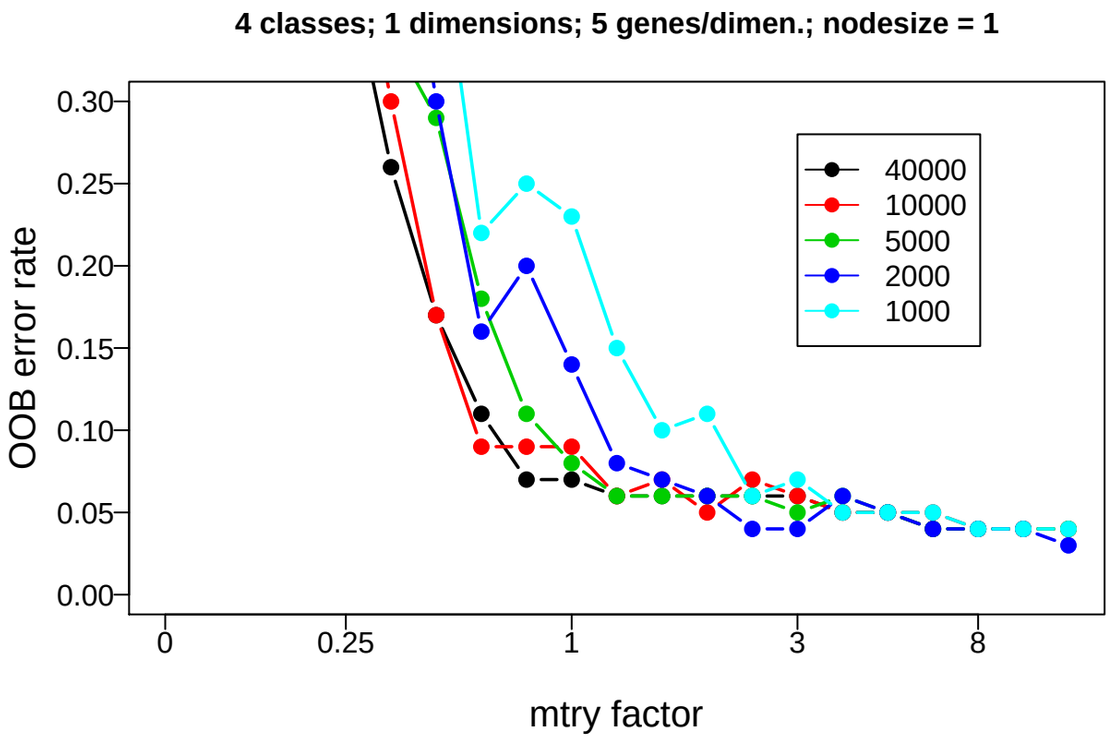

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

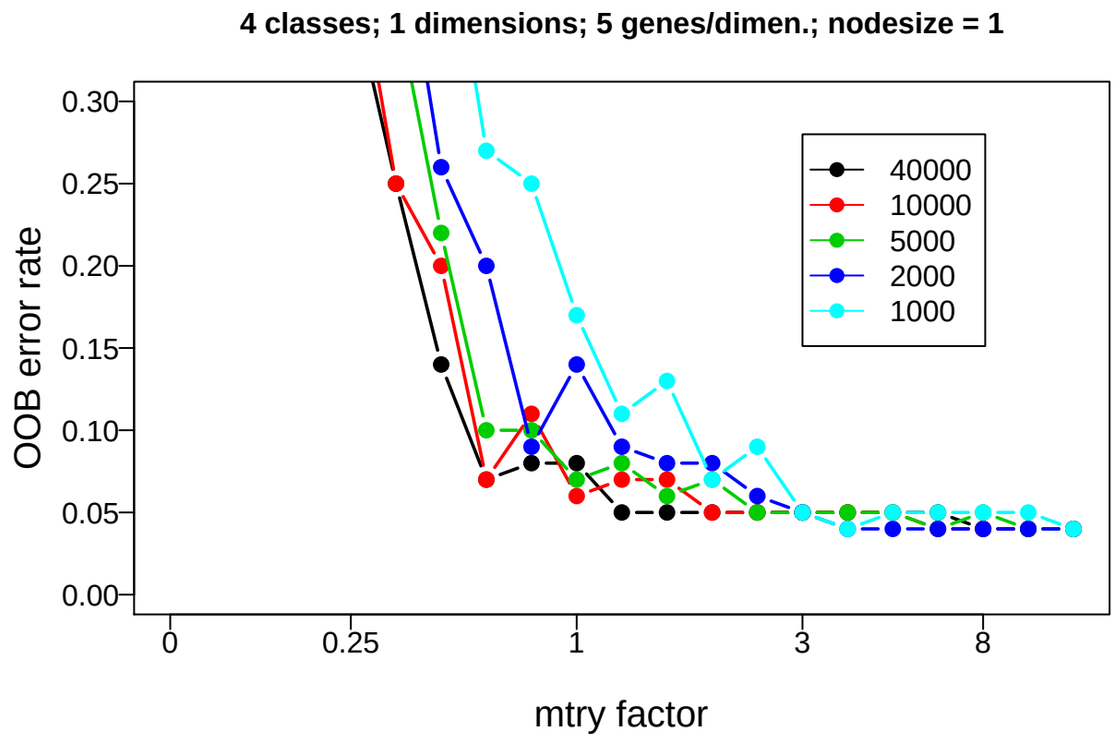

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

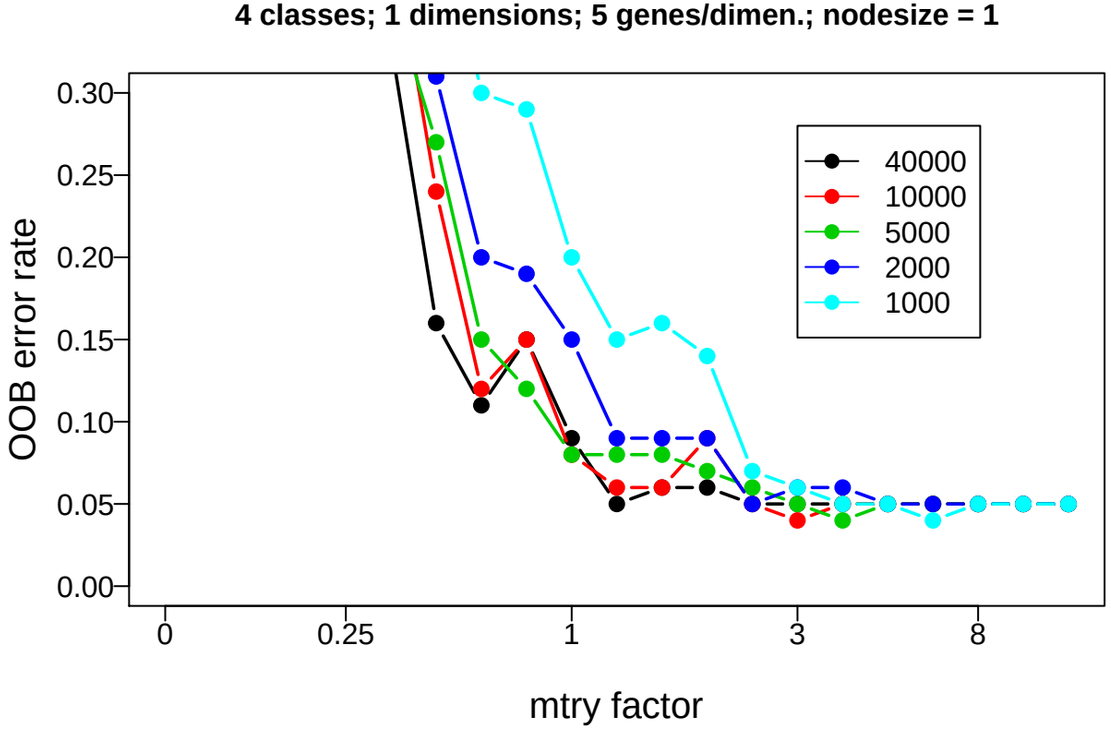

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

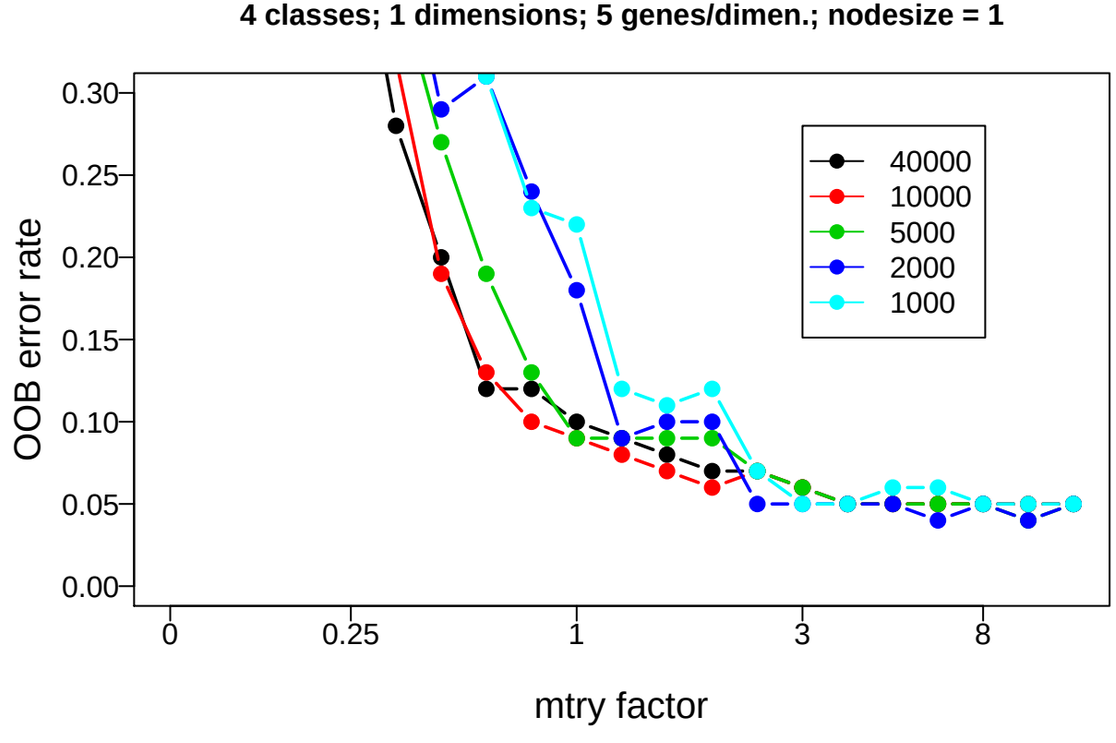

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

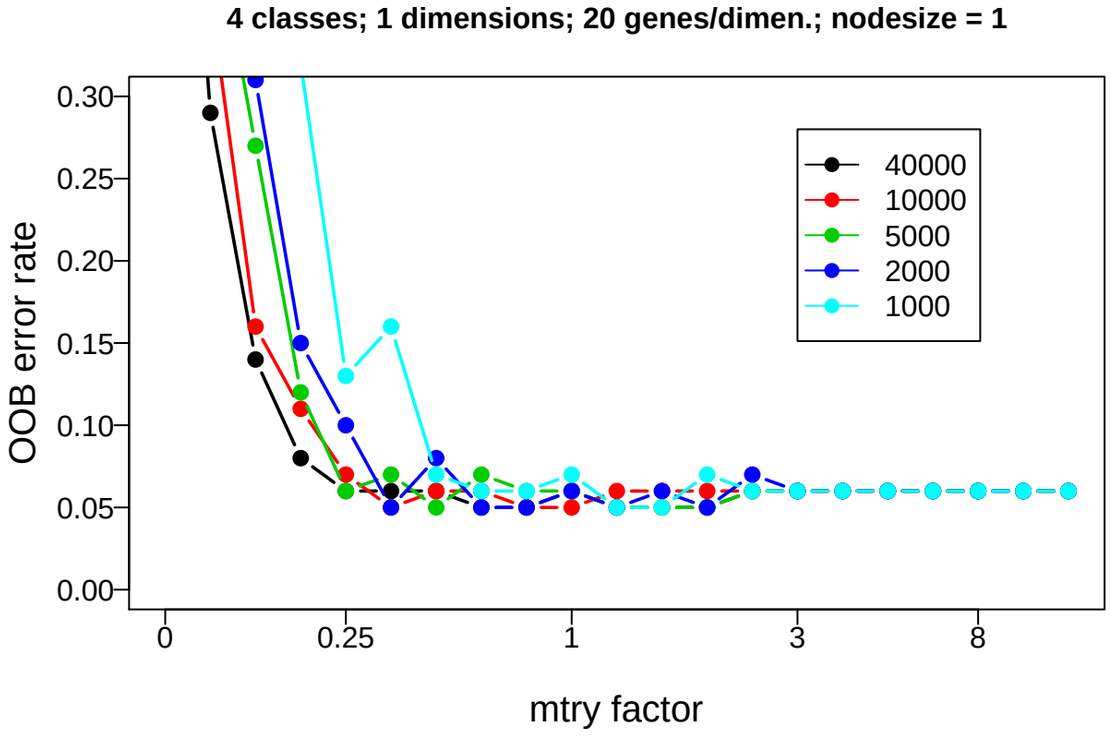

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

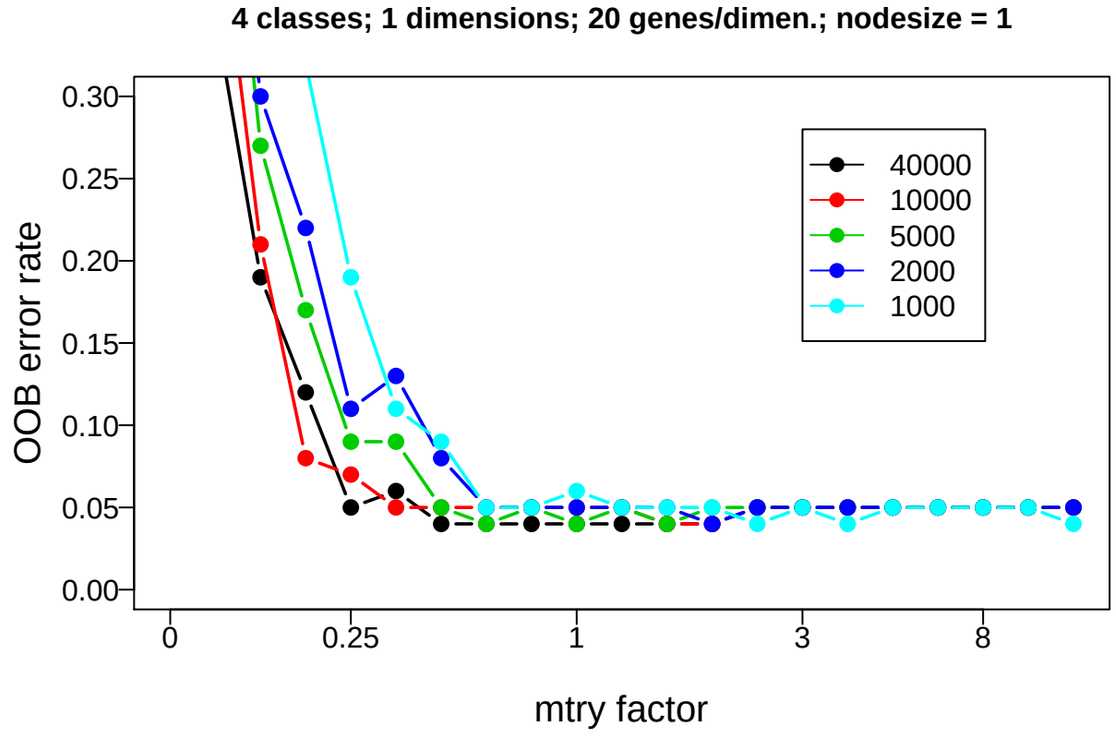

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

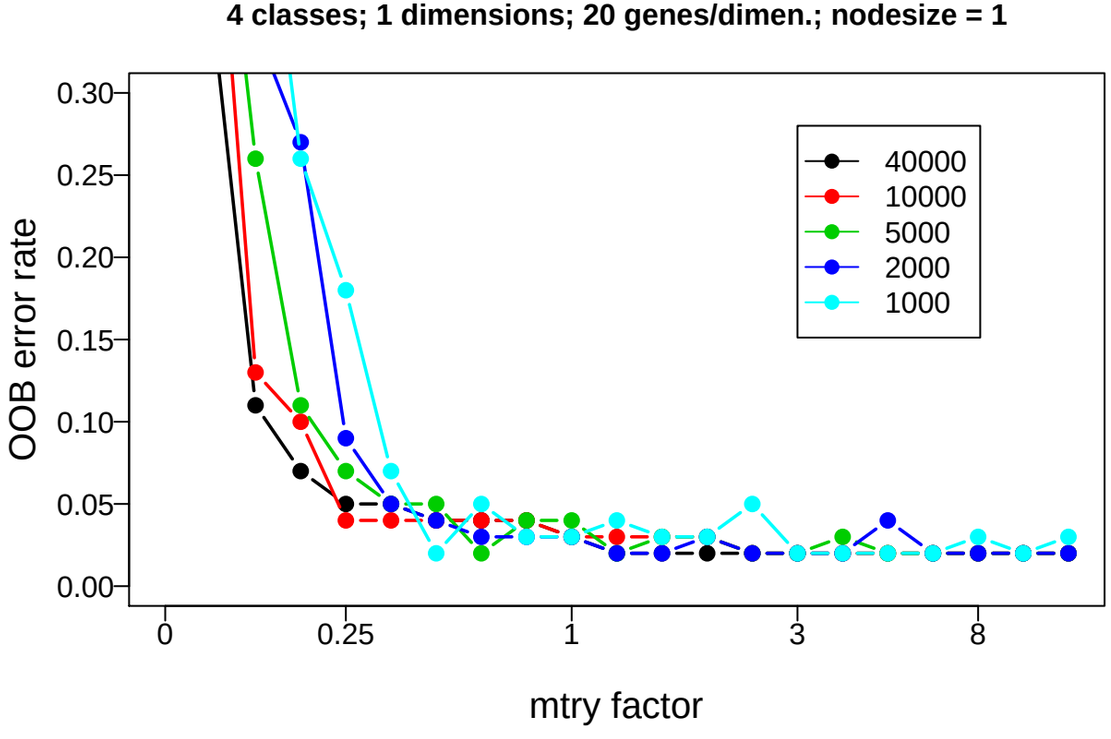

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

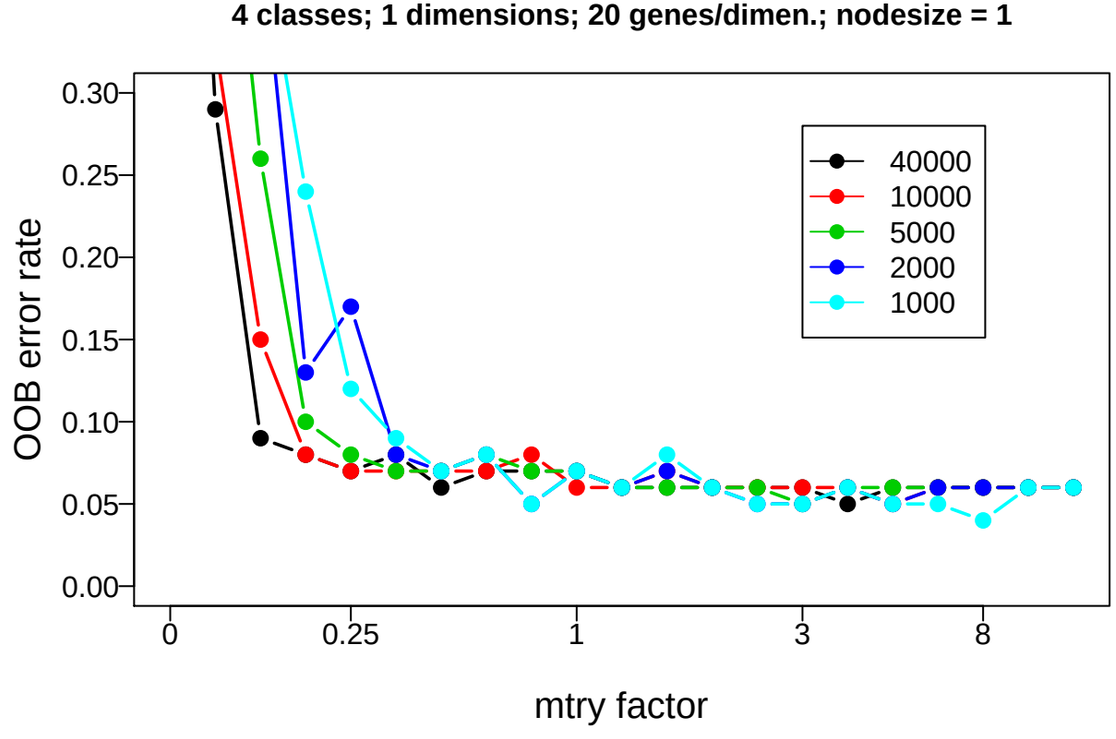

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

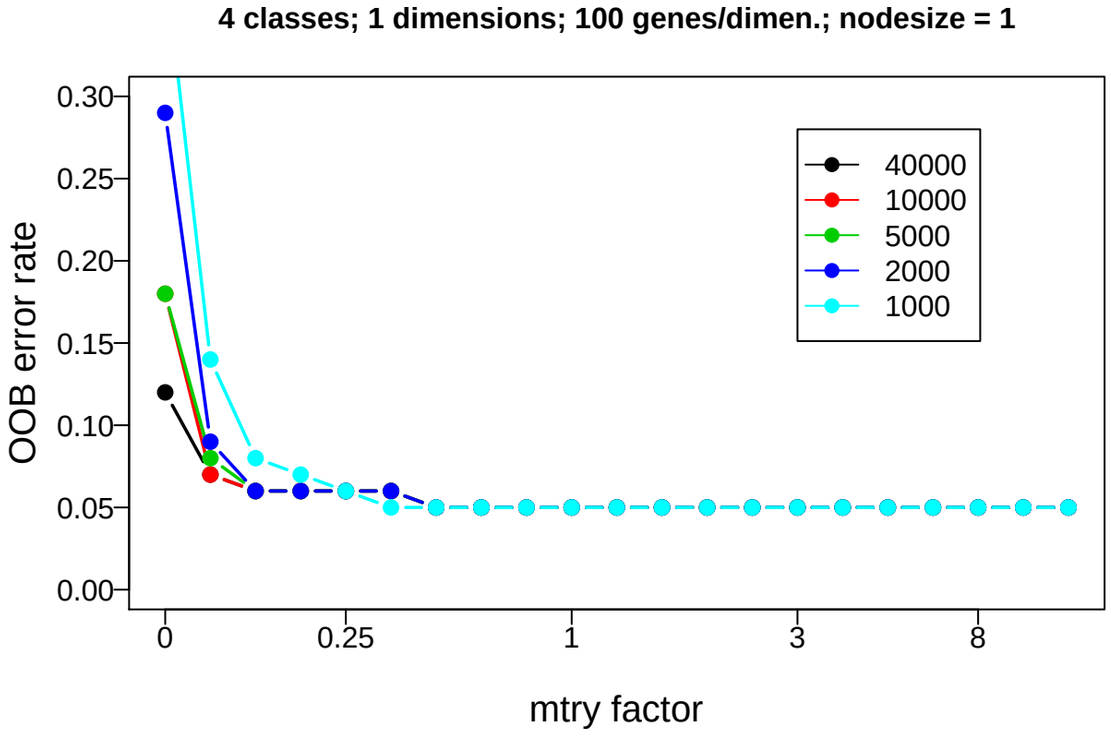

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

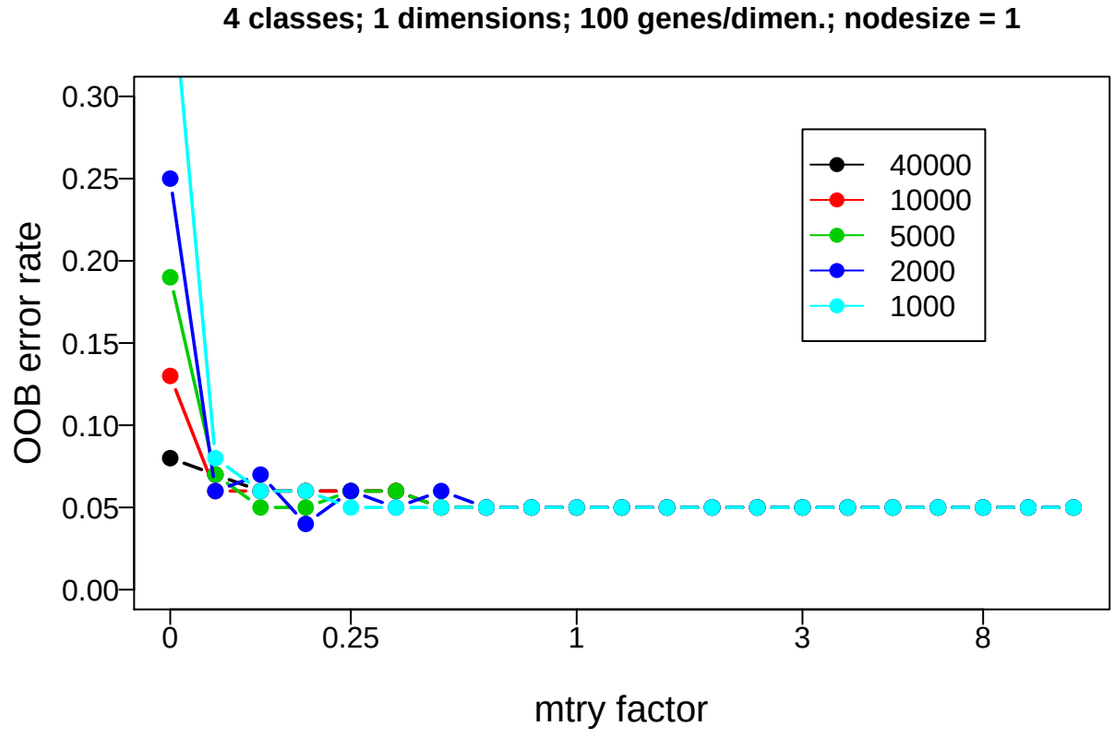

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

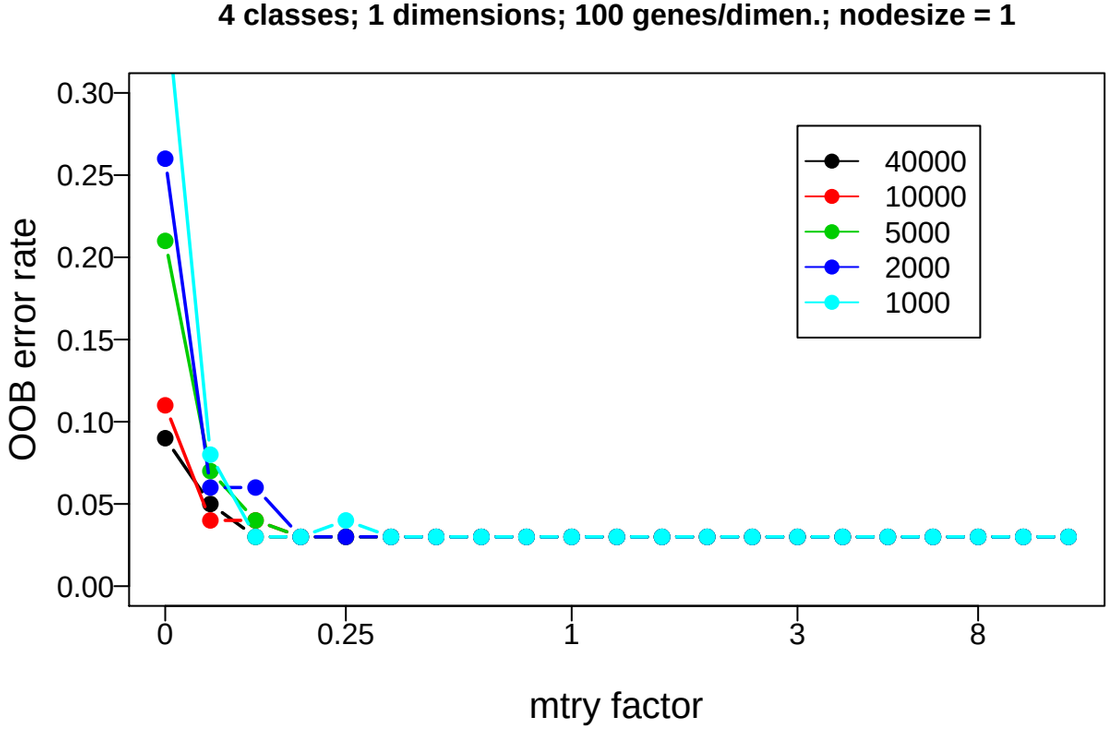

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

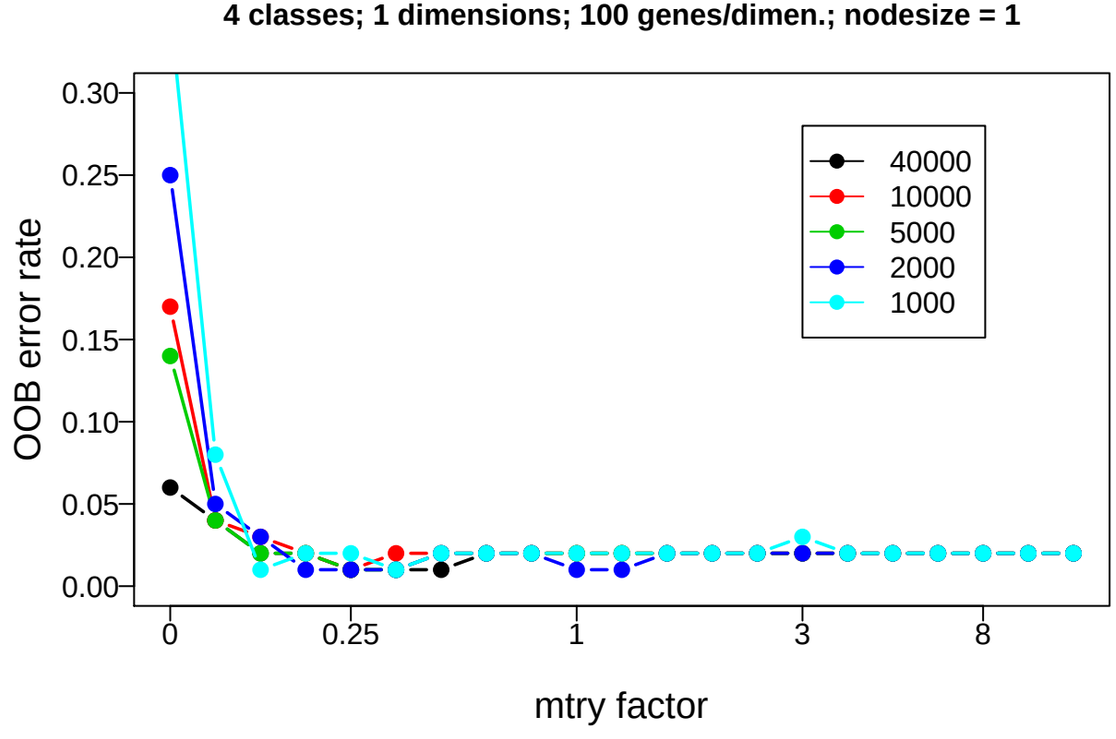

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

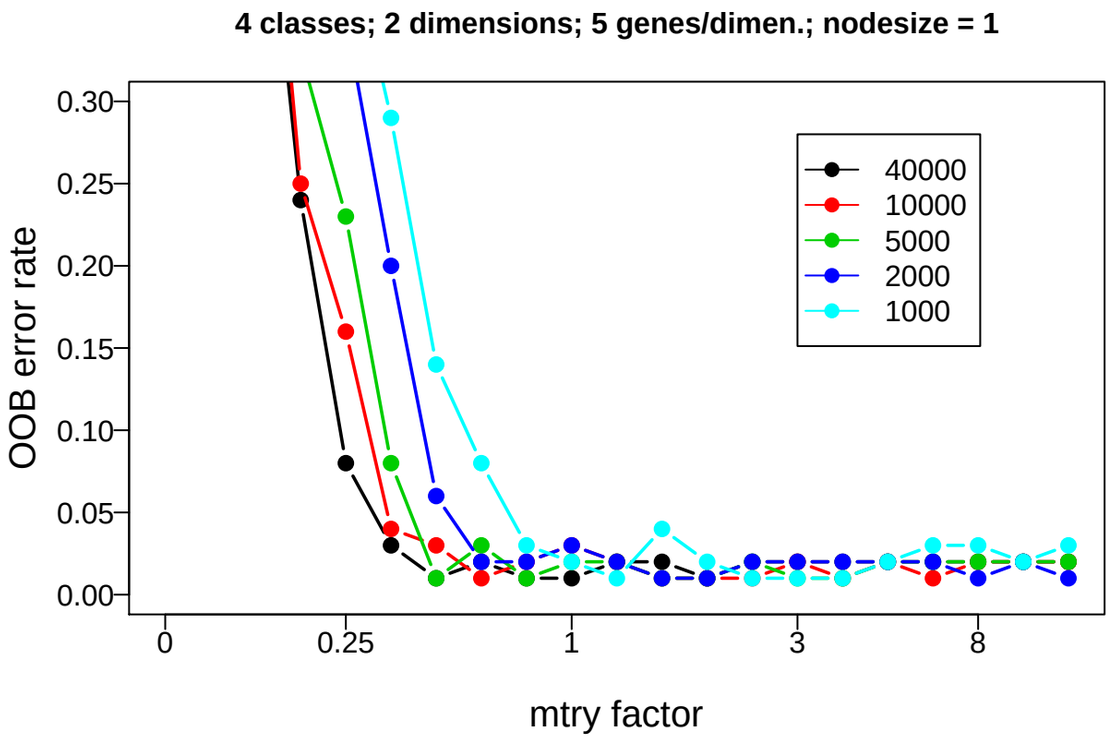

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

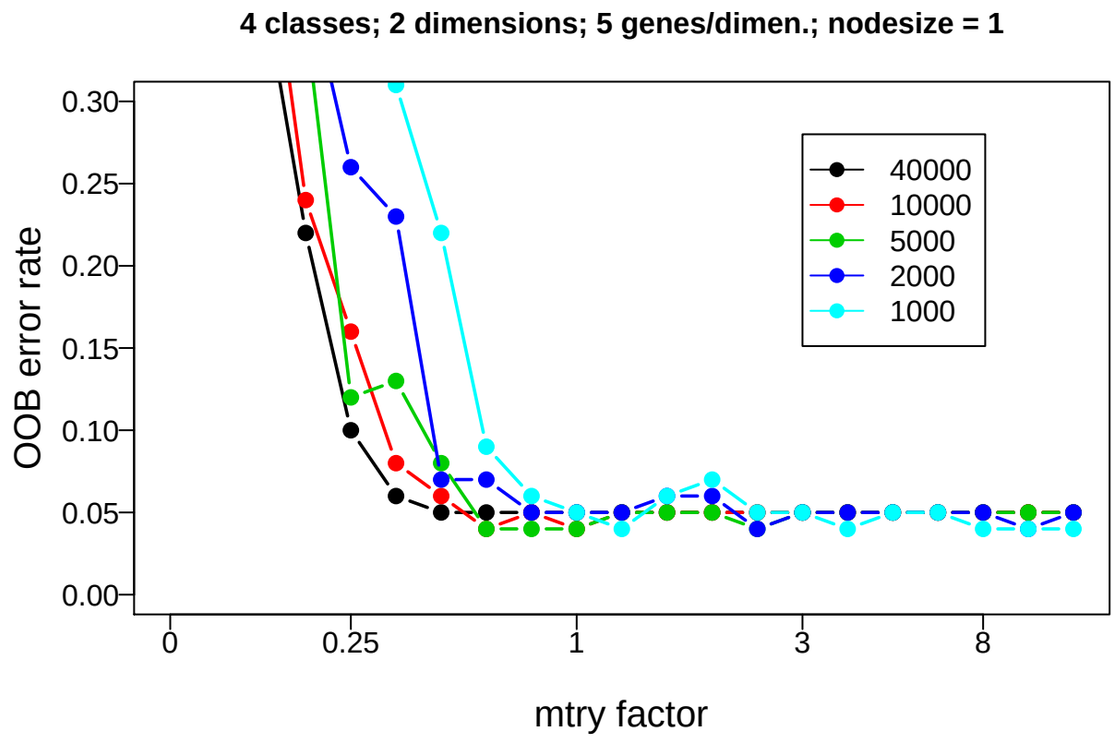

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

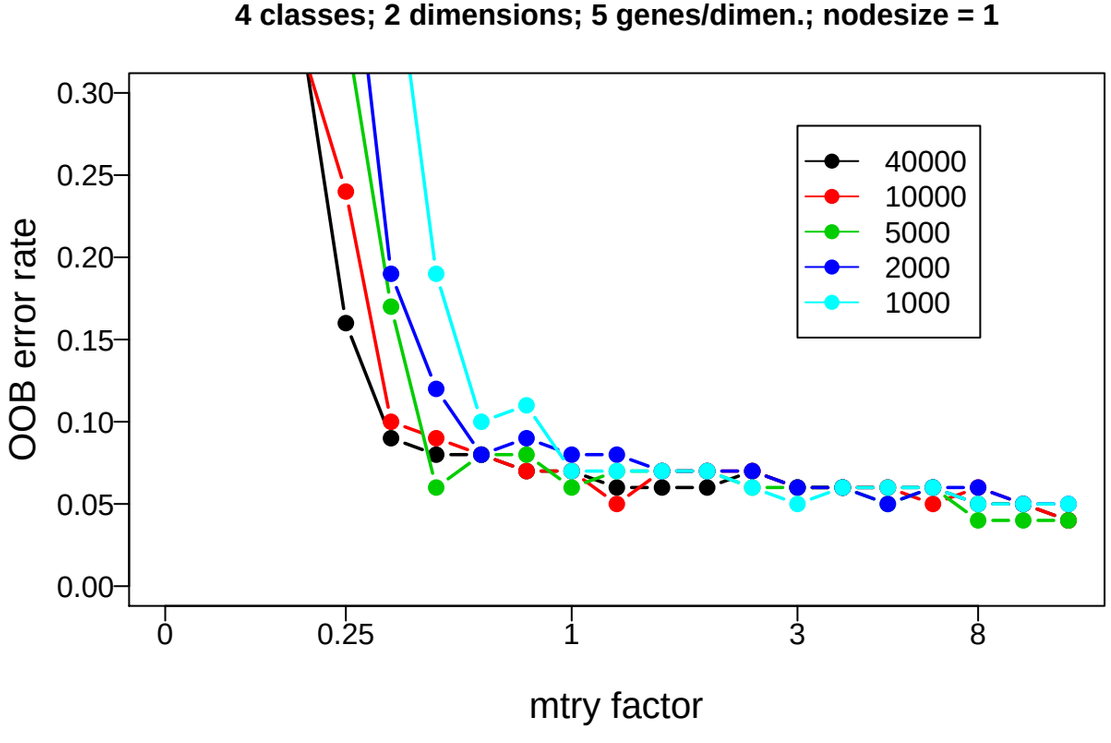

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

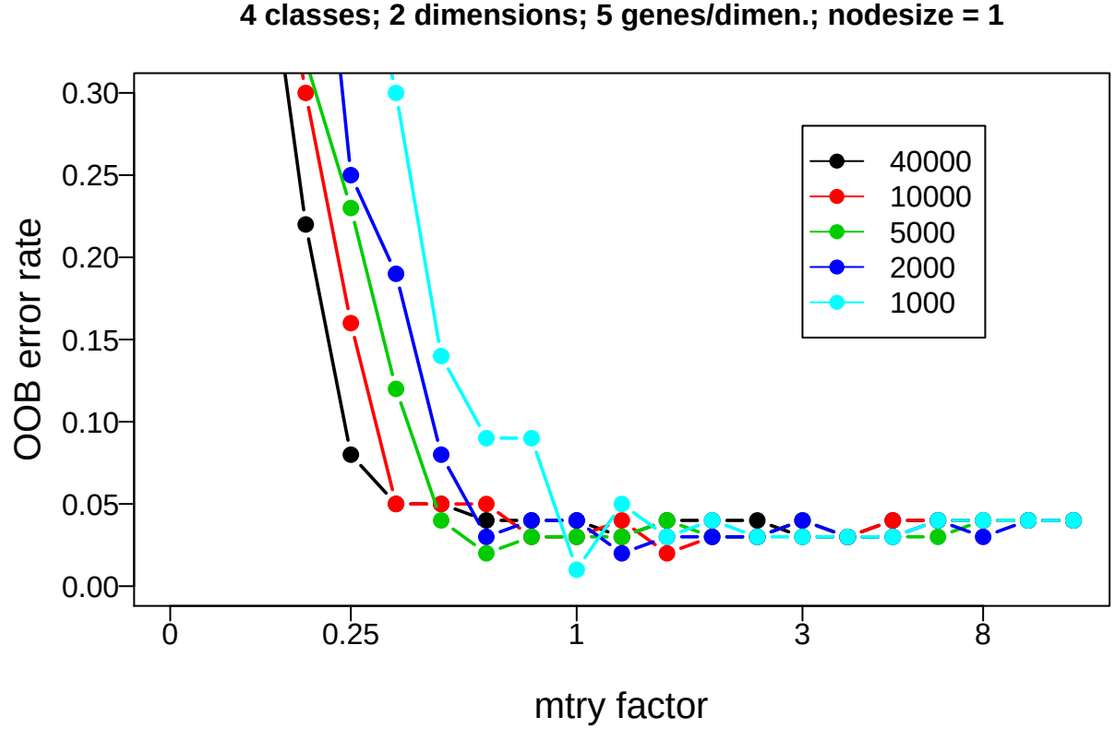

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

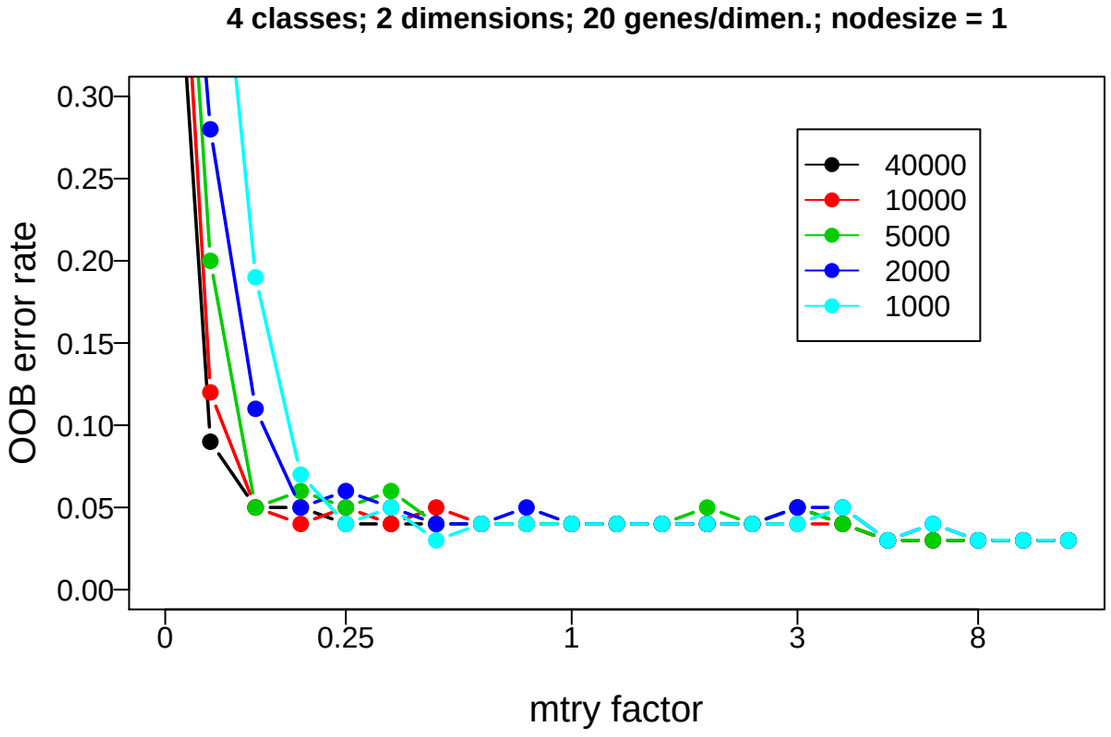

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

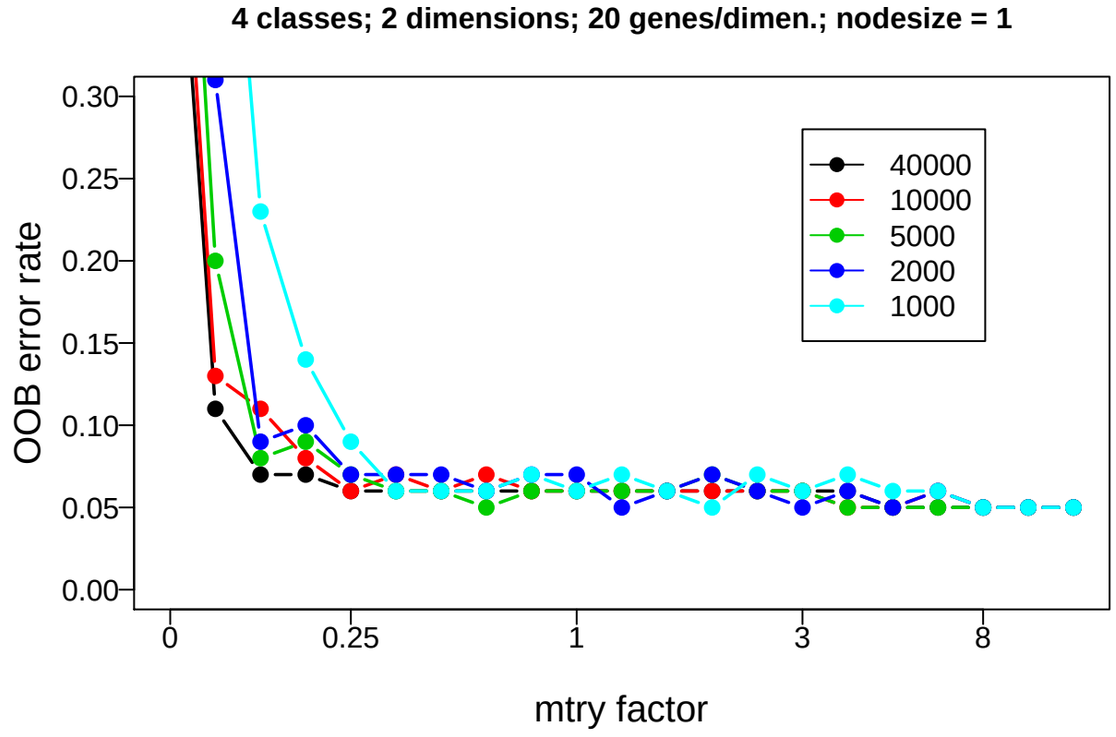

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

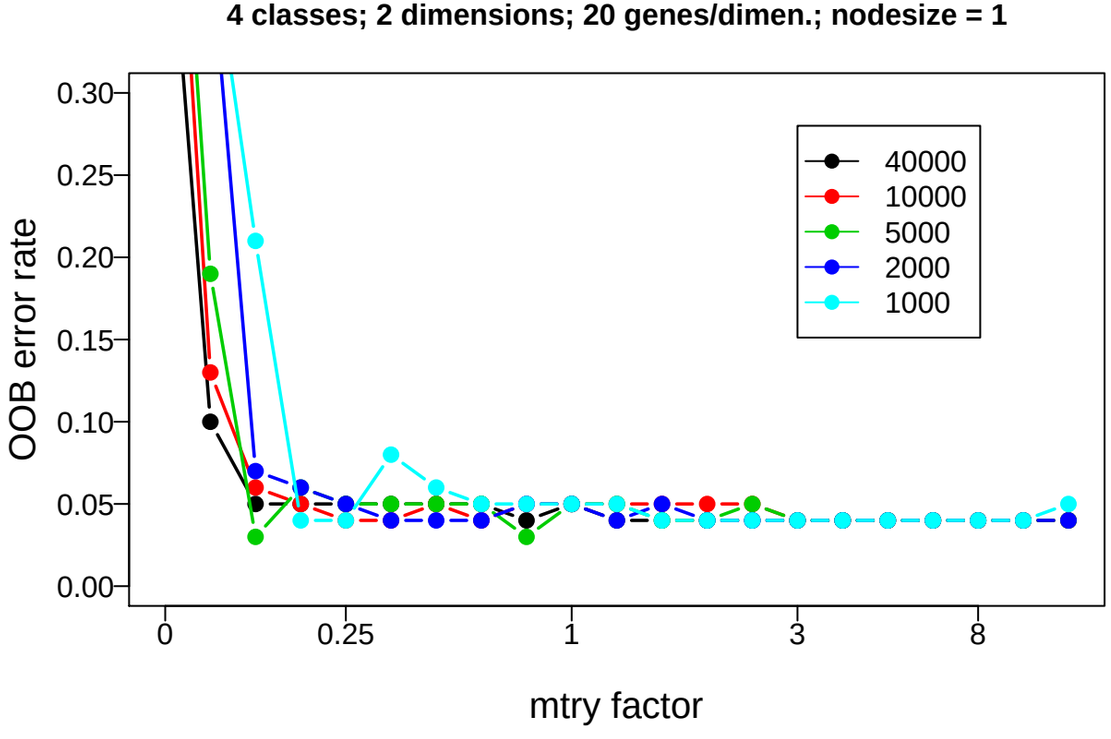

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

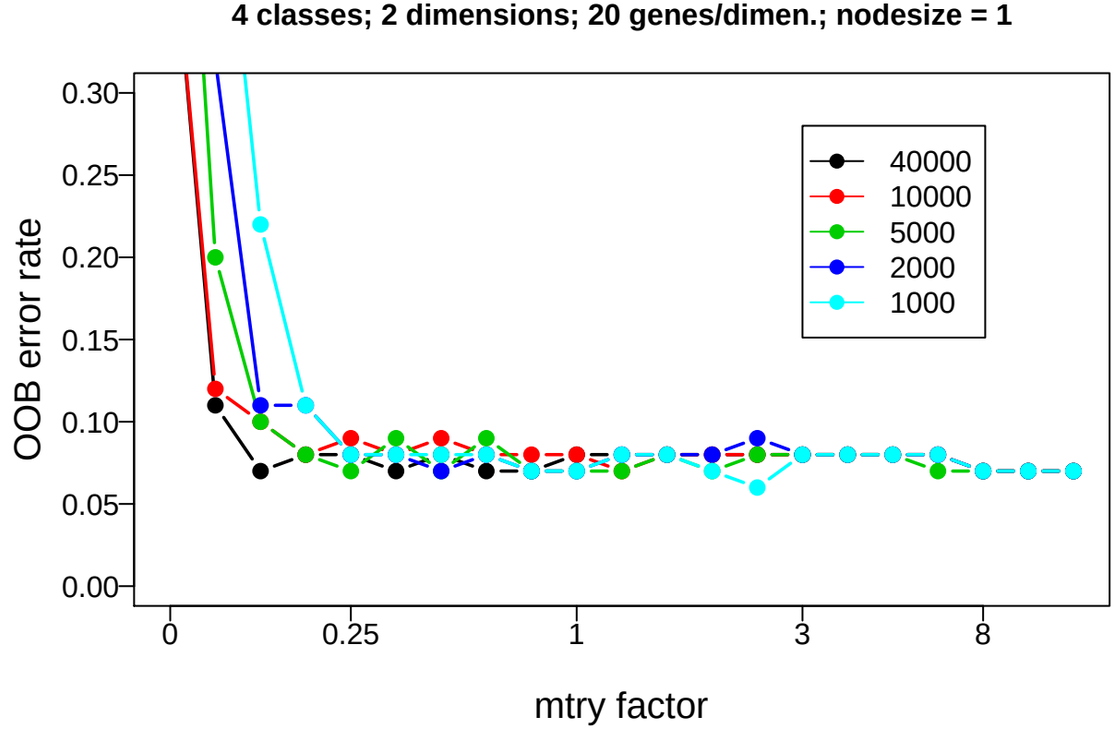

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

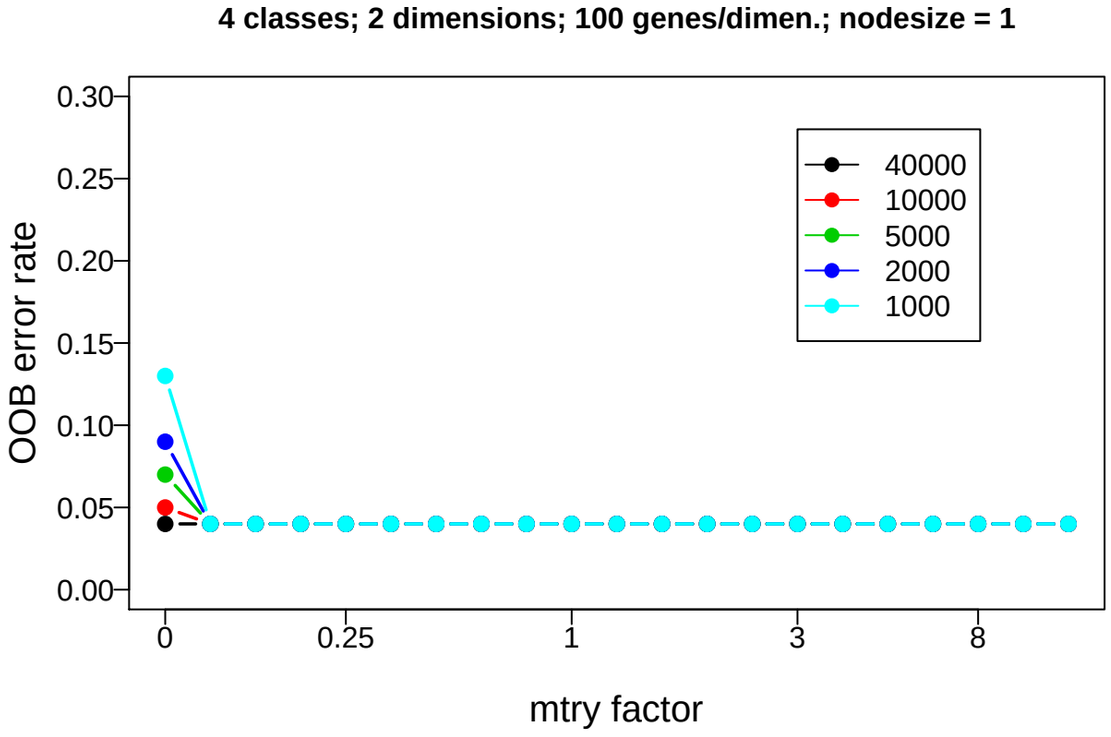

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

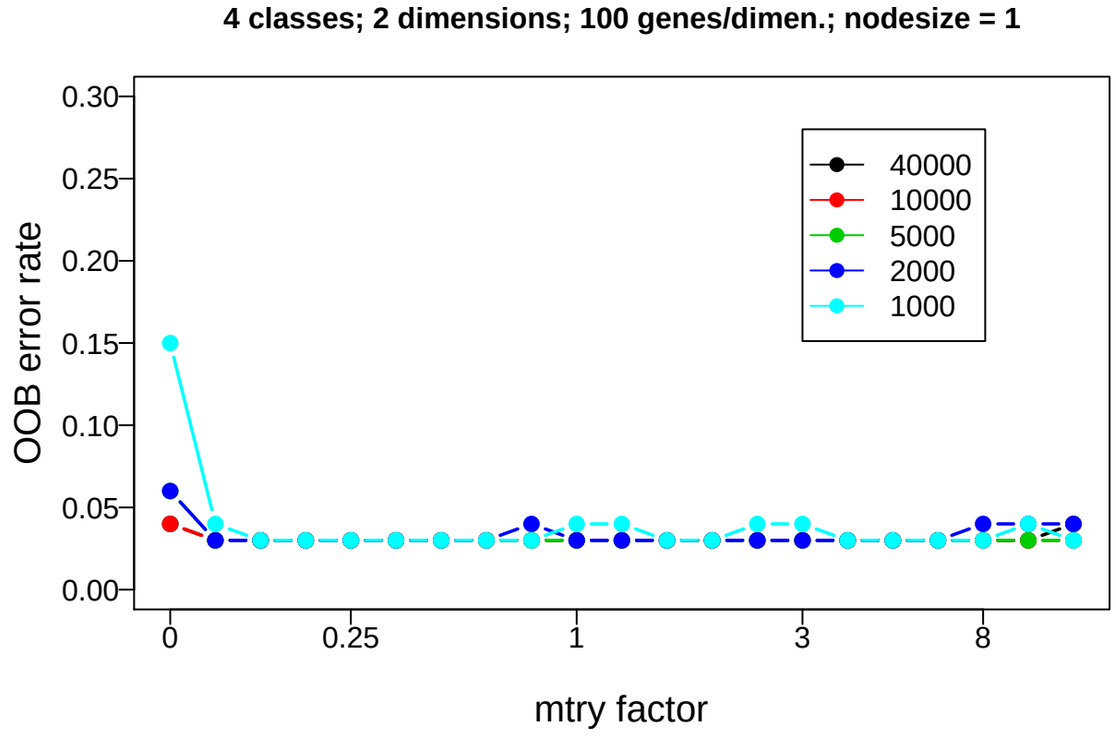

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

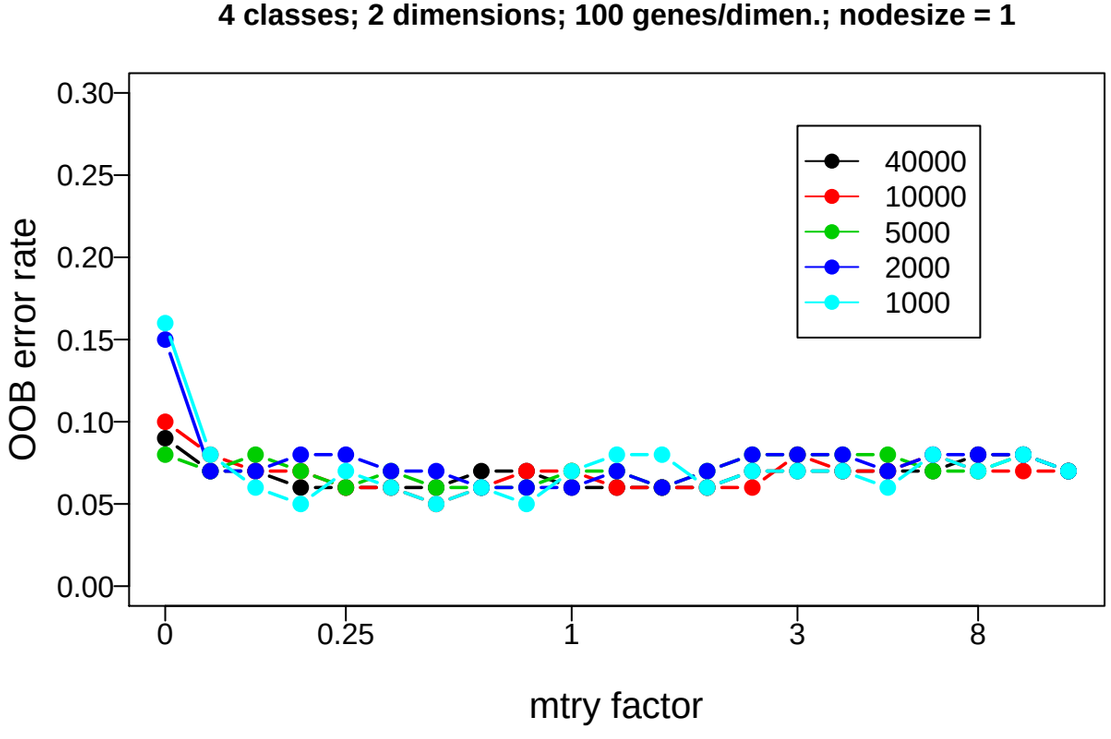

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

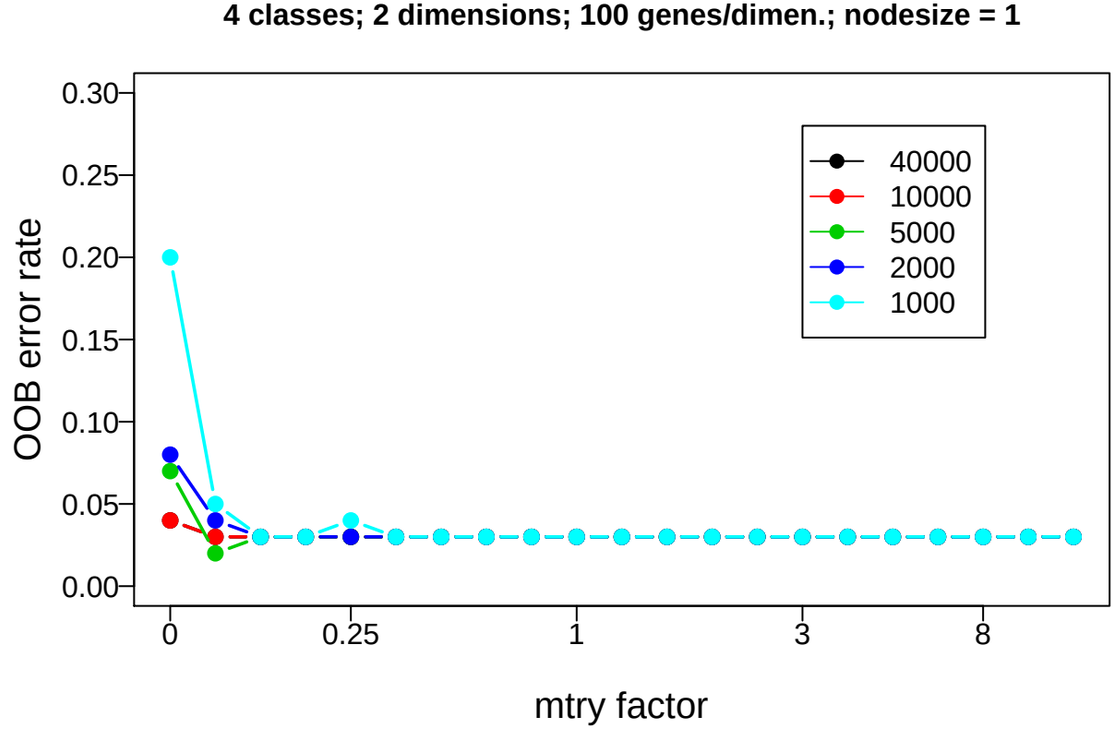

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

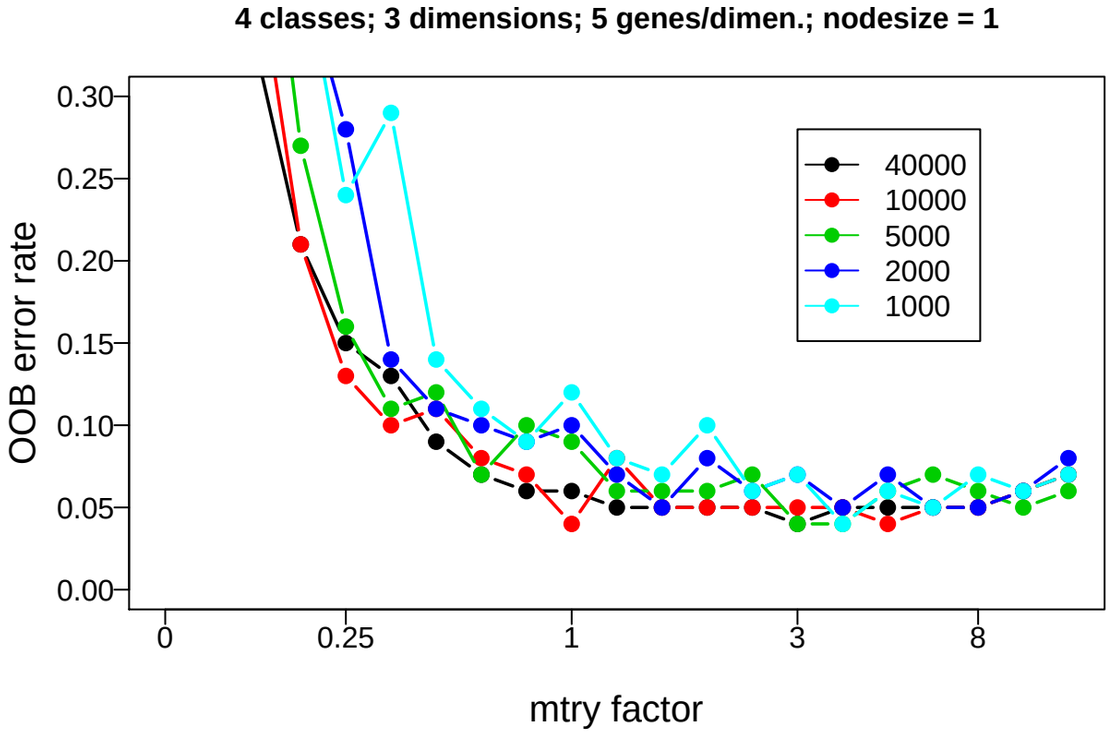

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

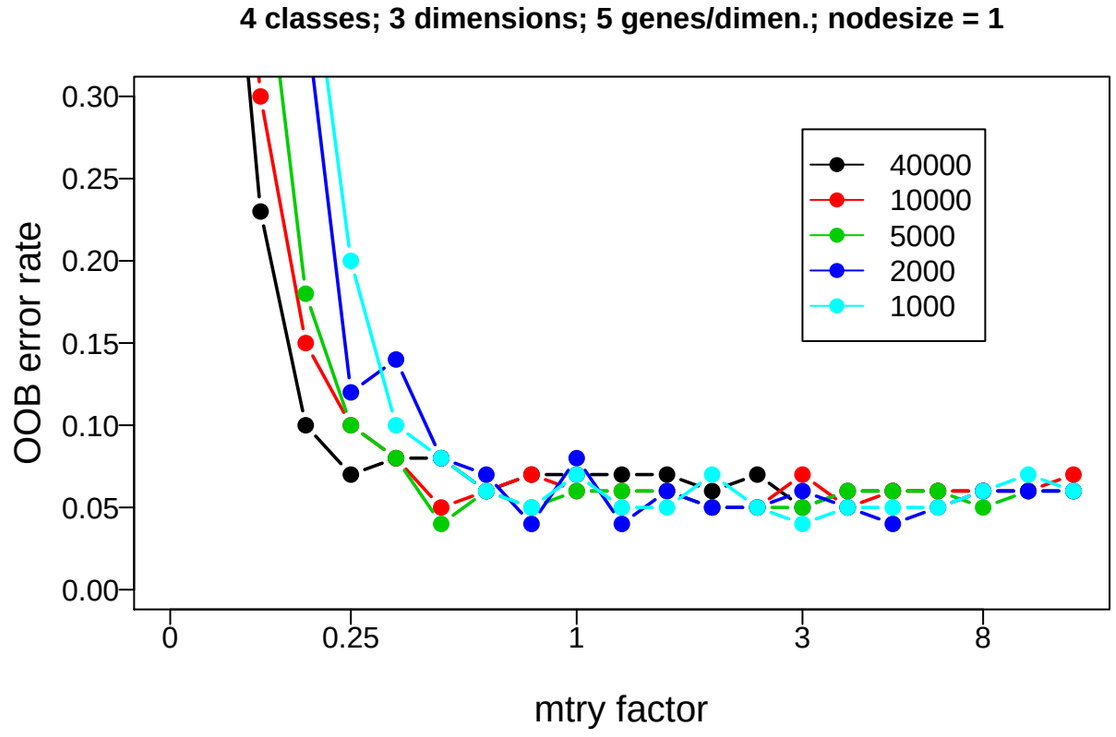

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

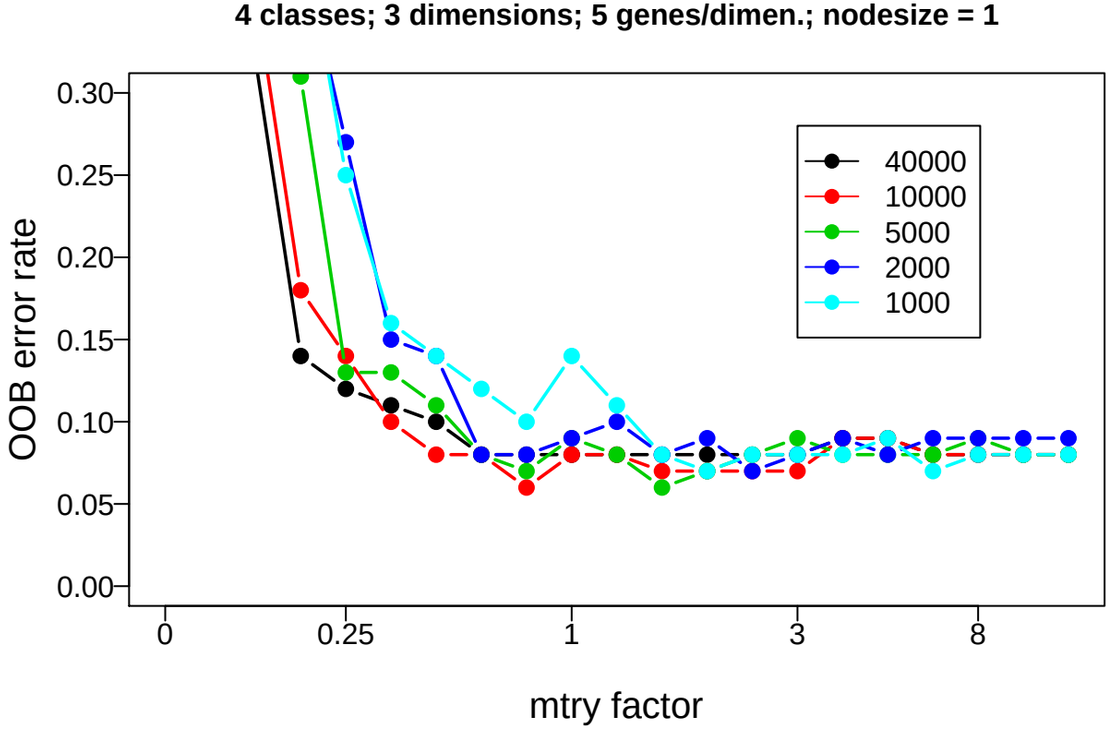

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

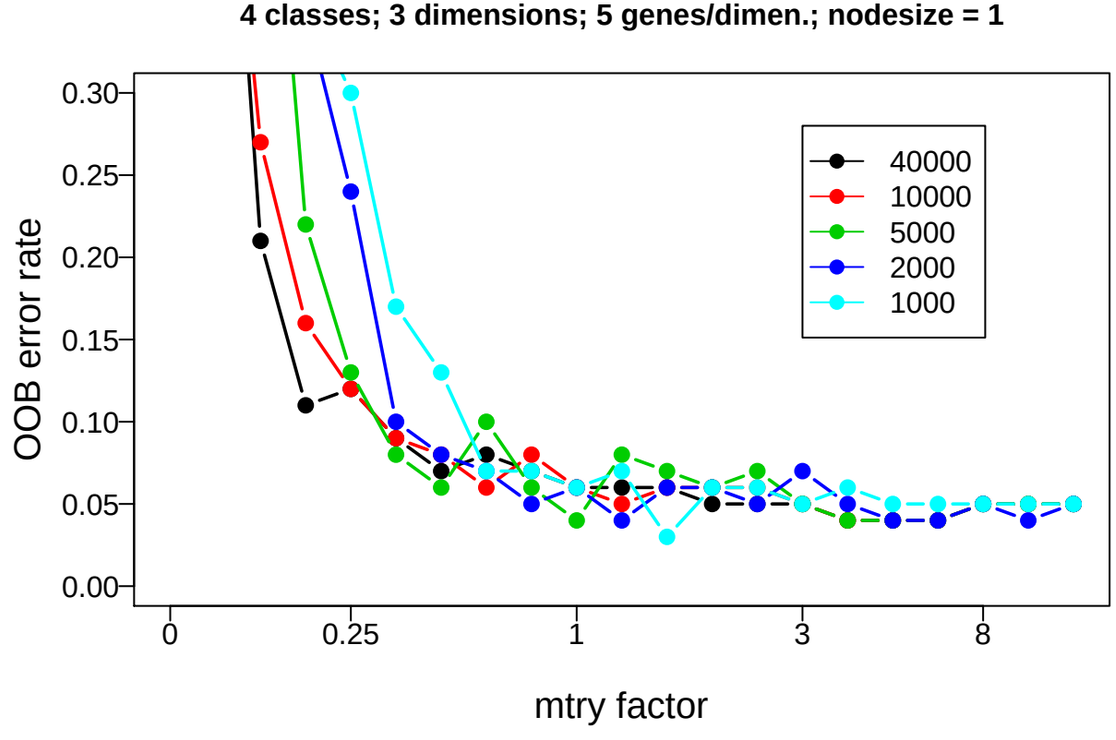

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

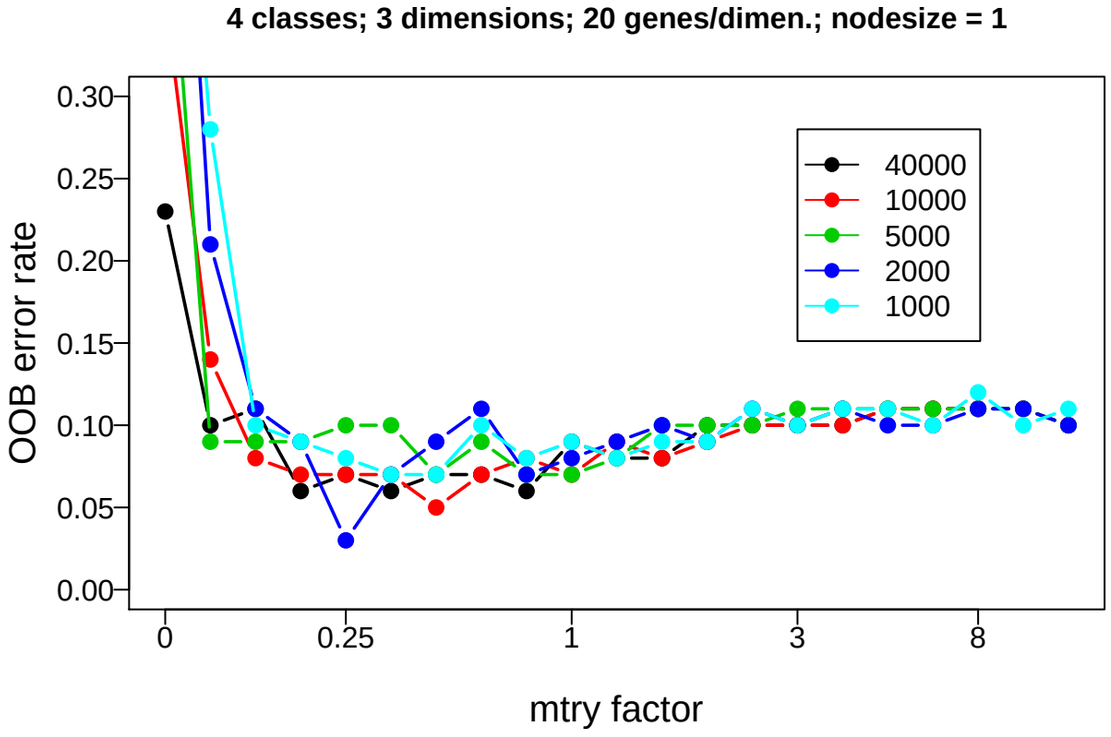

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

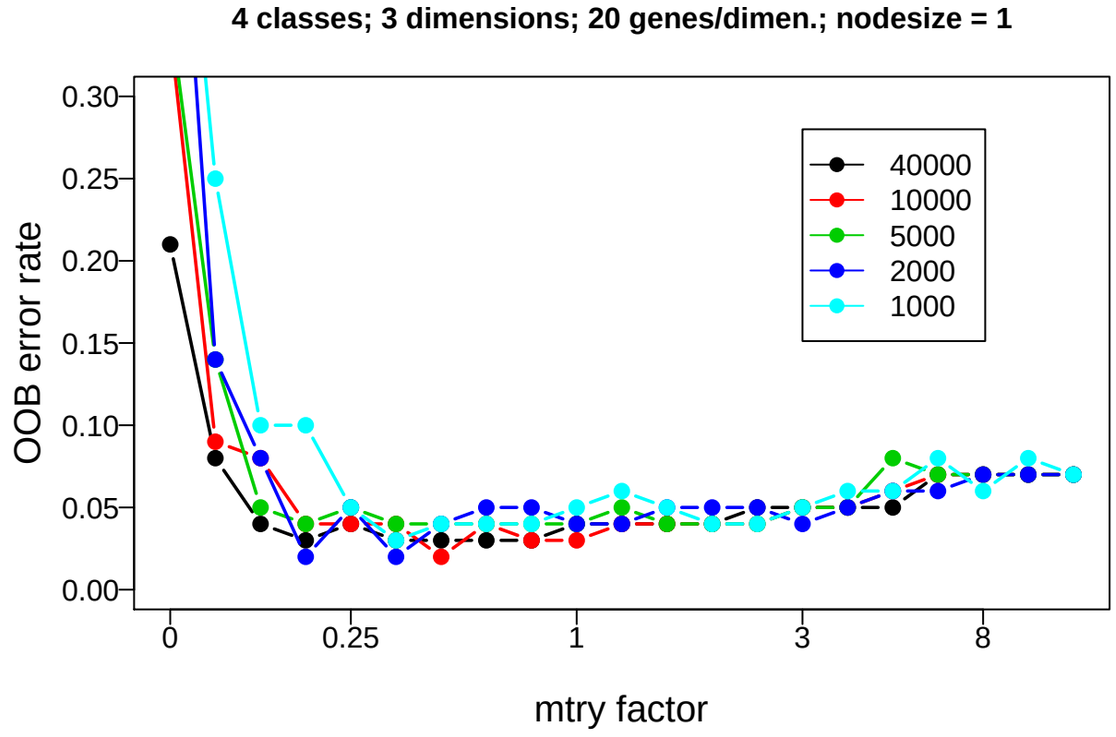

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

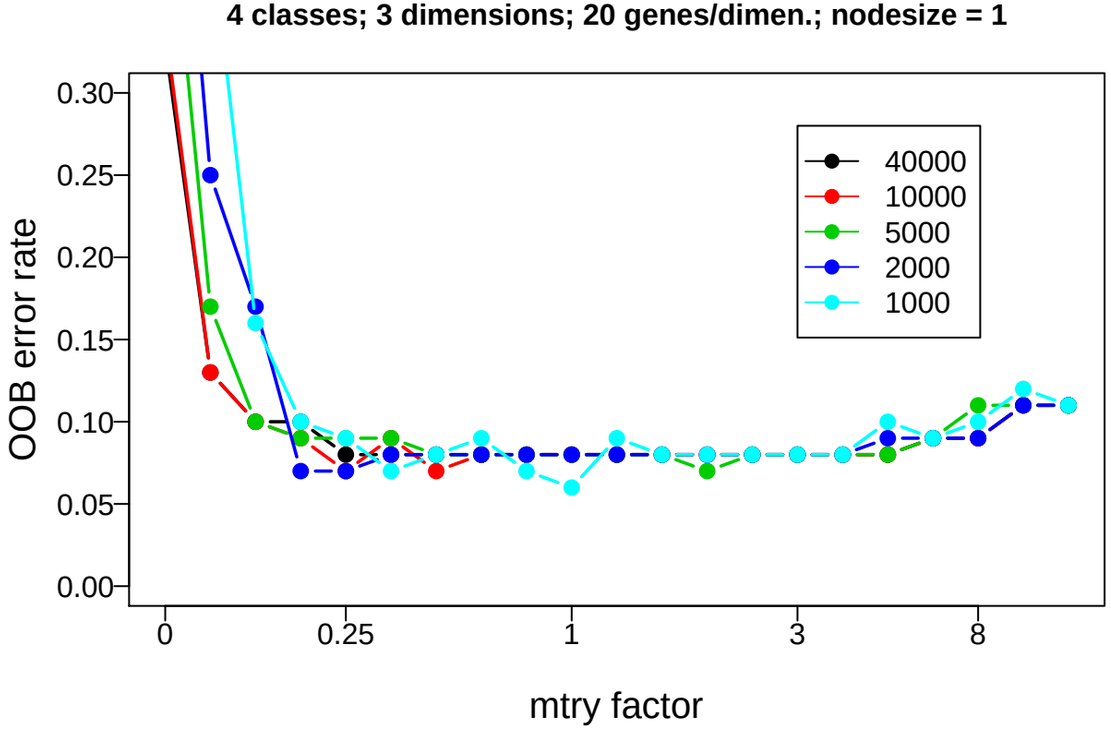

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

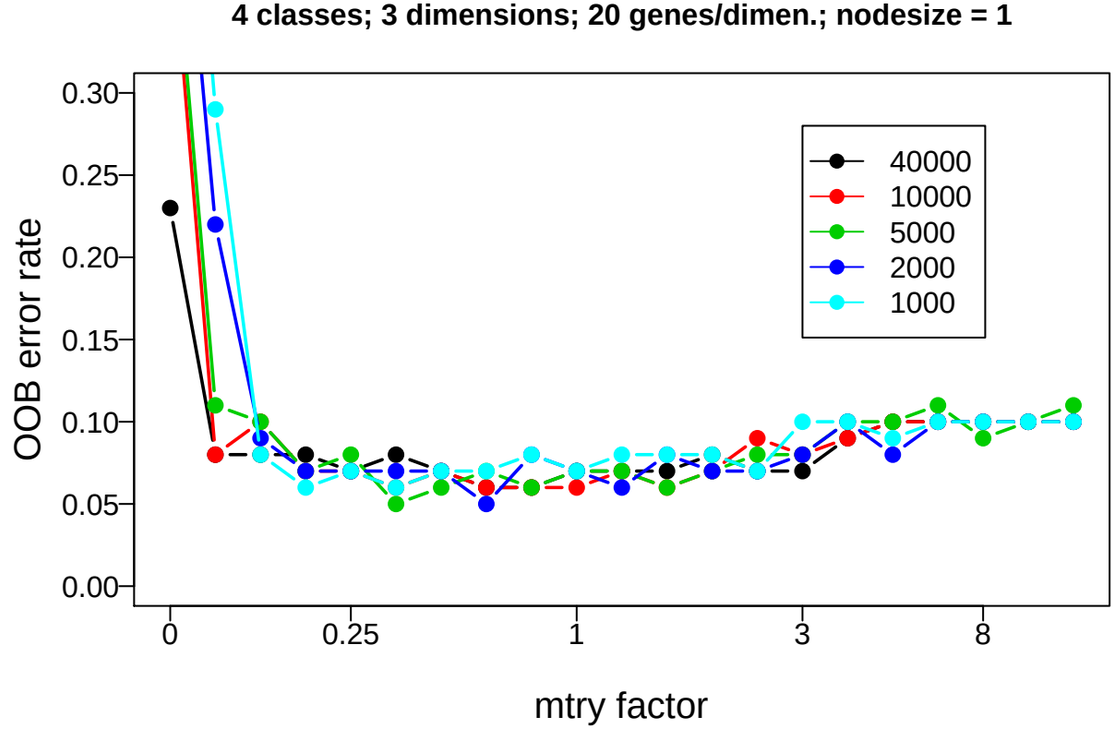

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

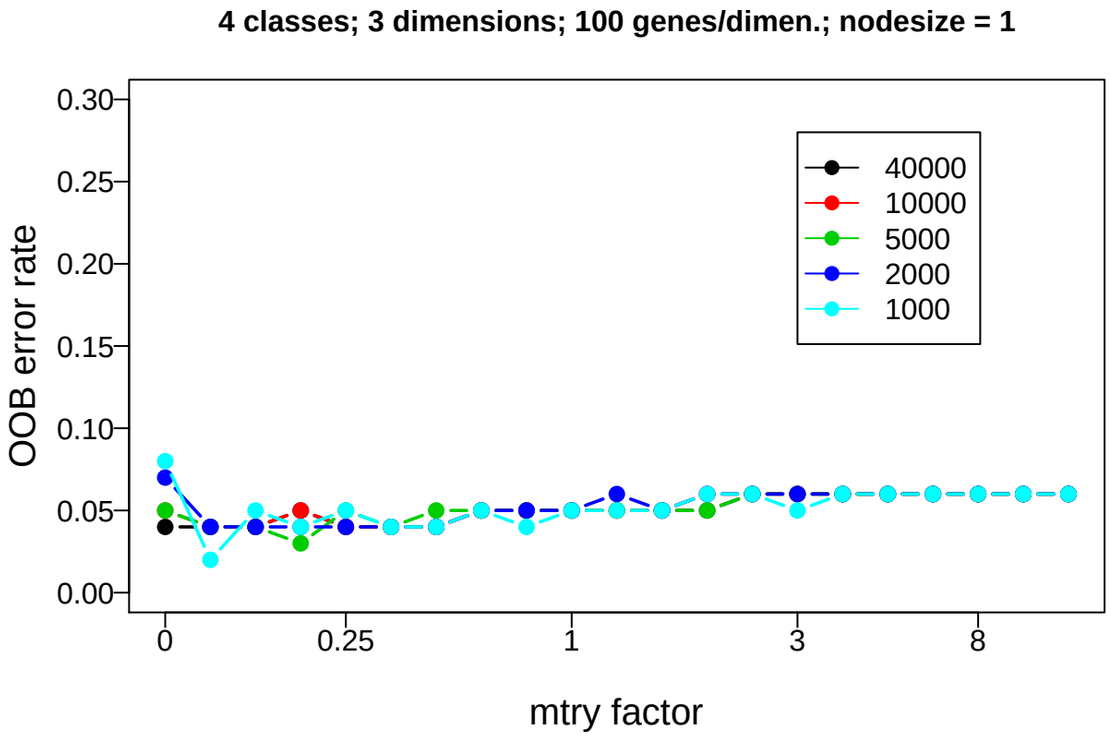

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

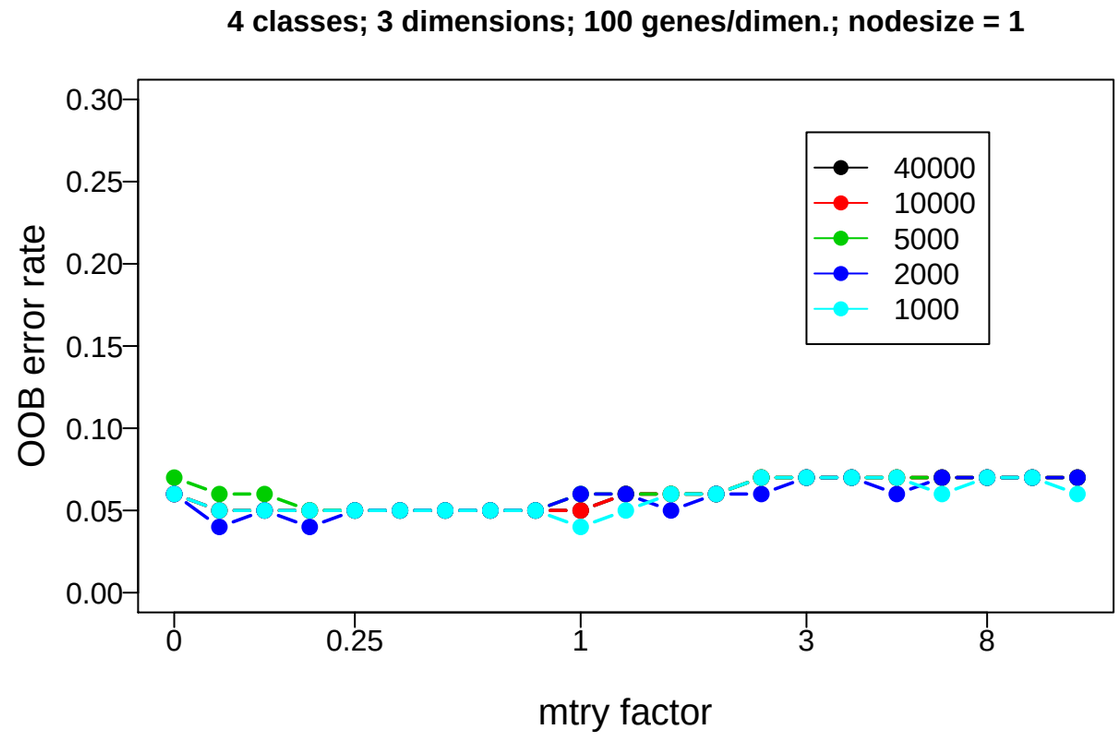

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

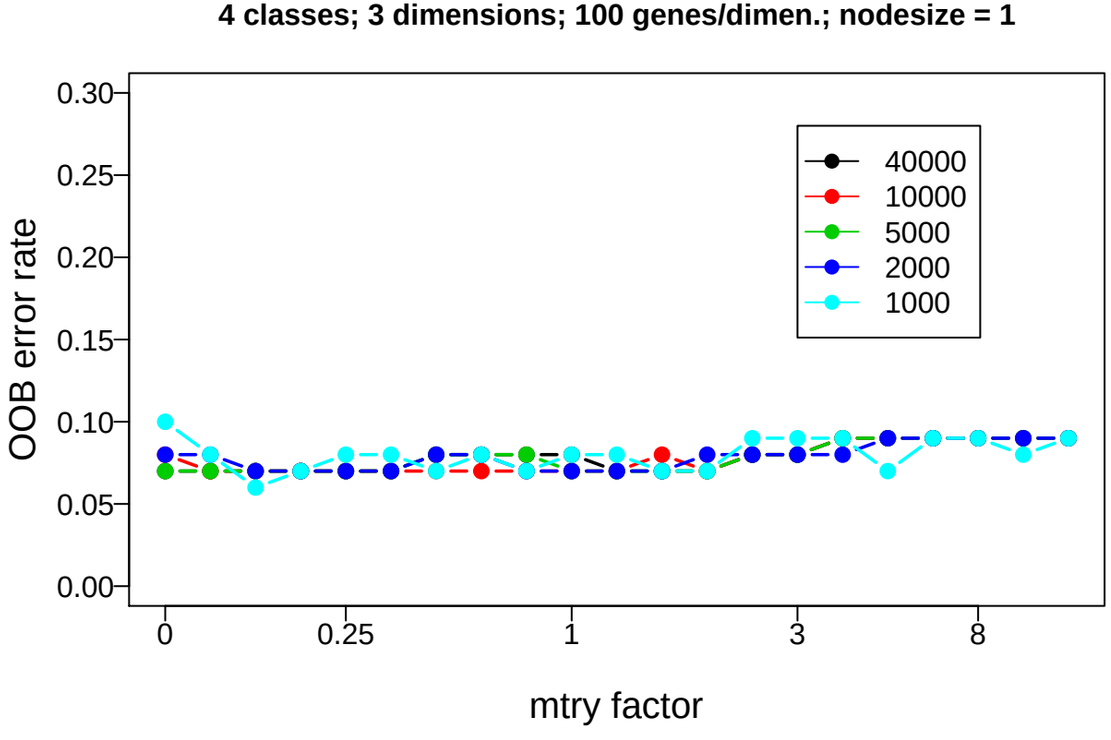

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

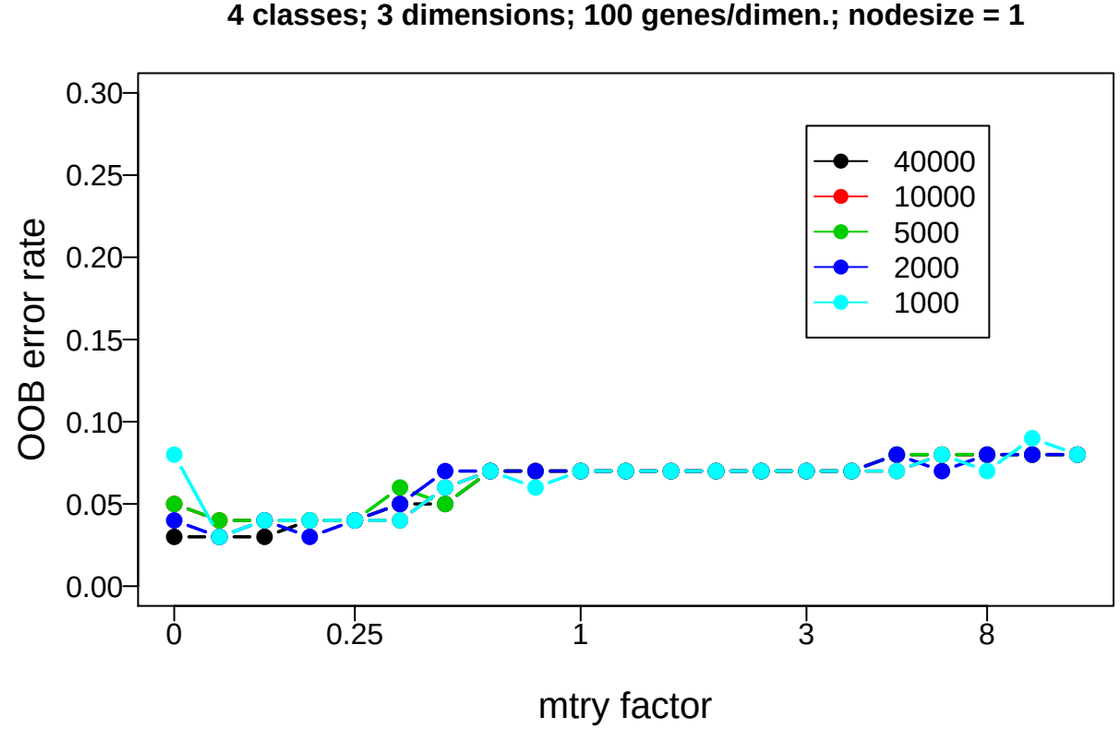

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

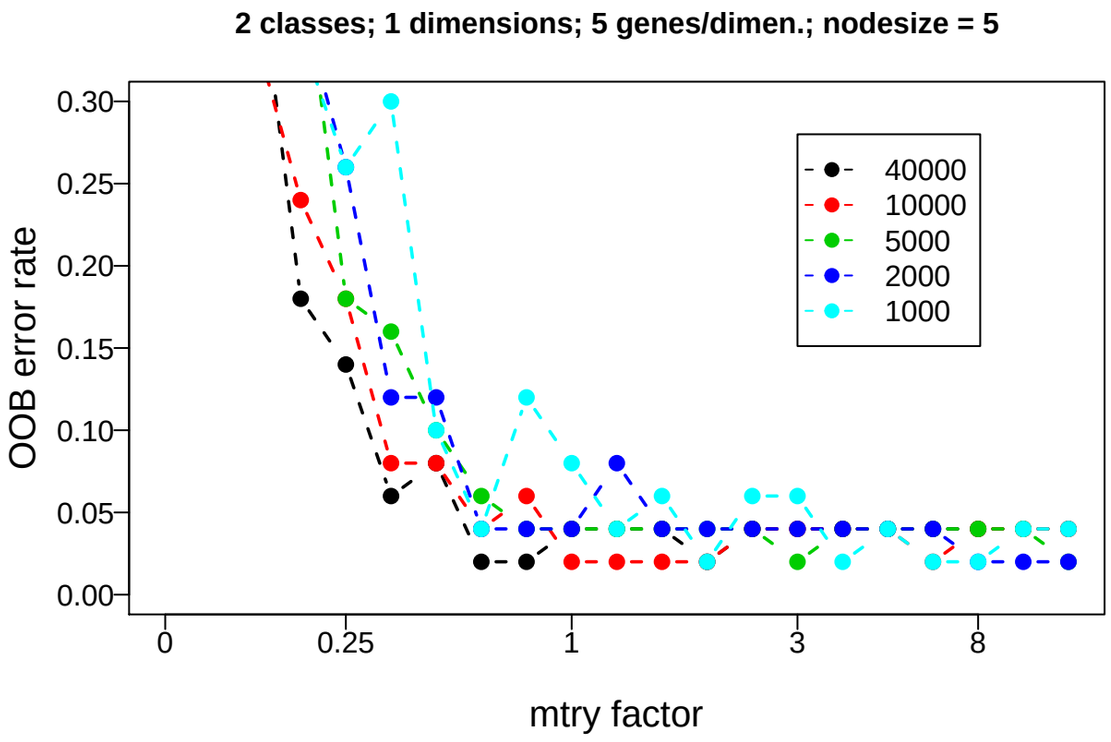

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

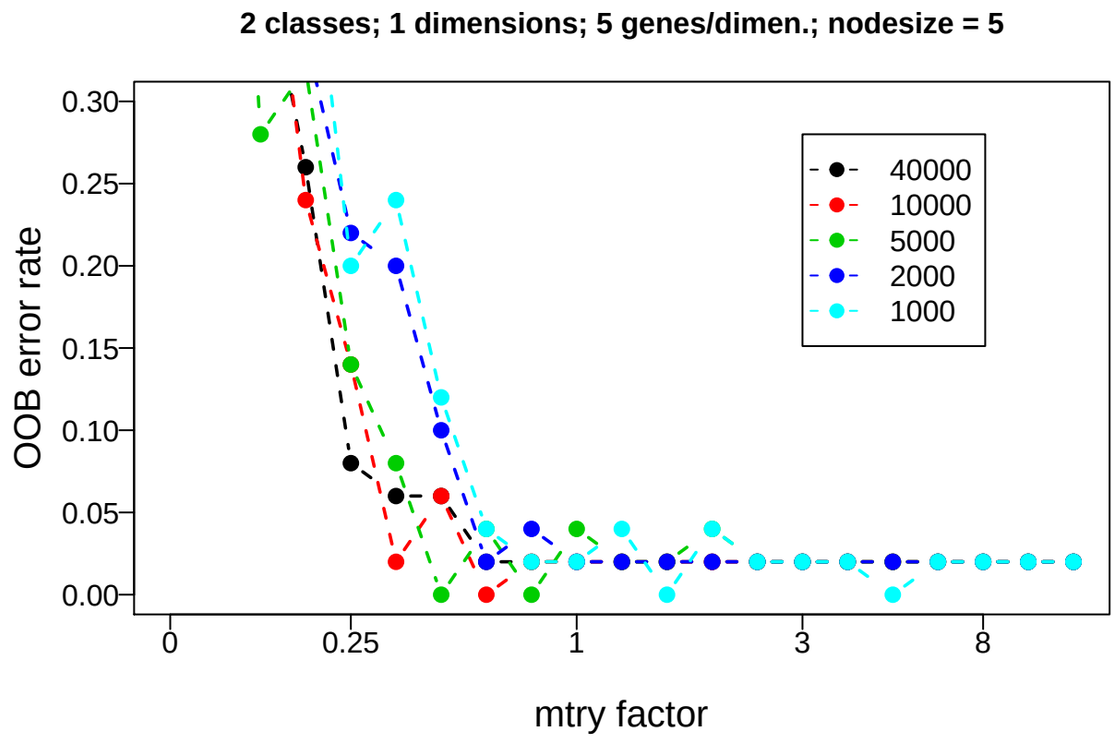

4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

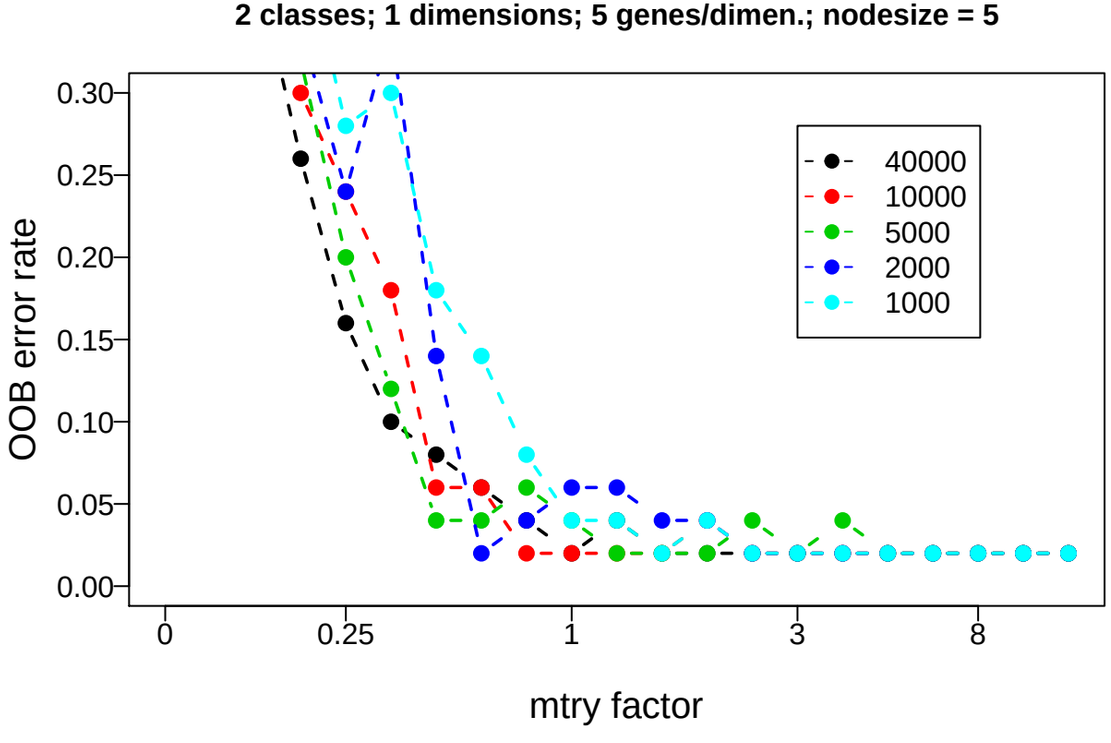

4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

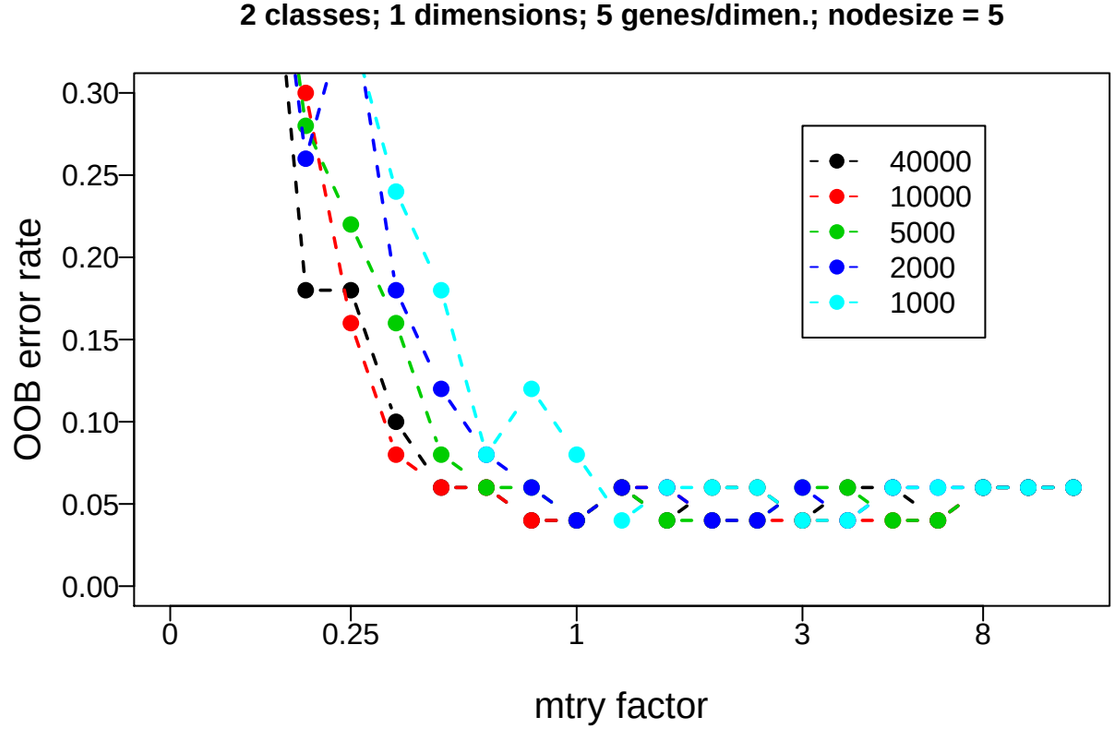

4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

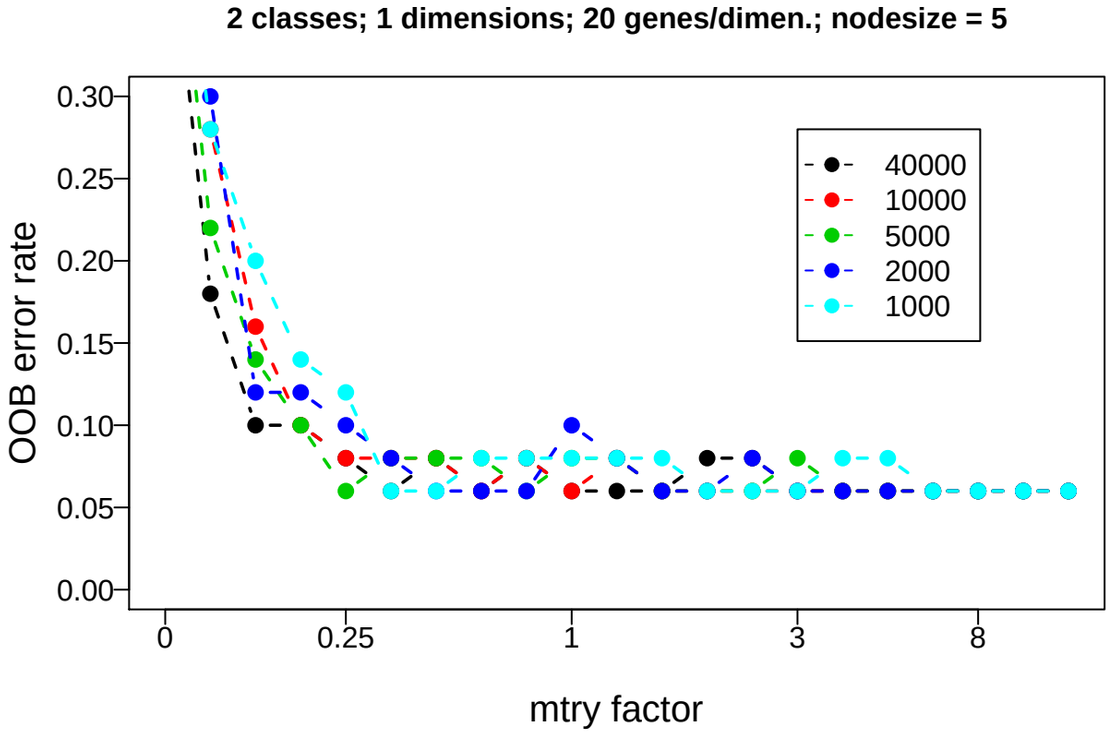

4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 1
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

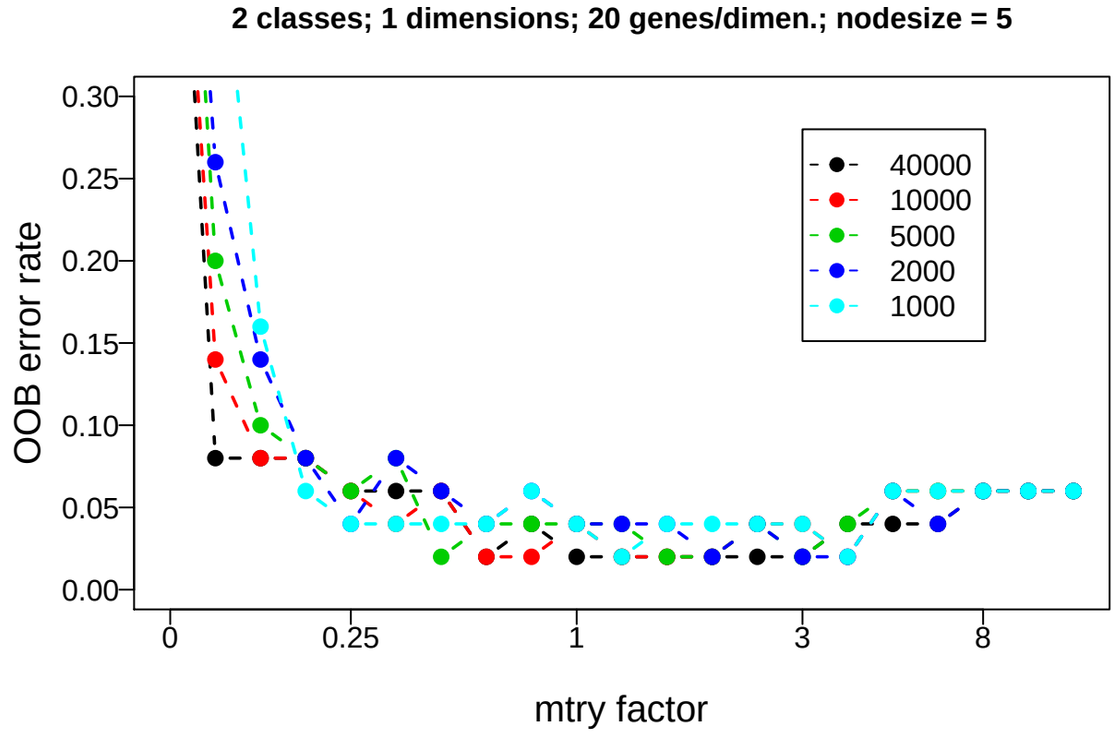

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

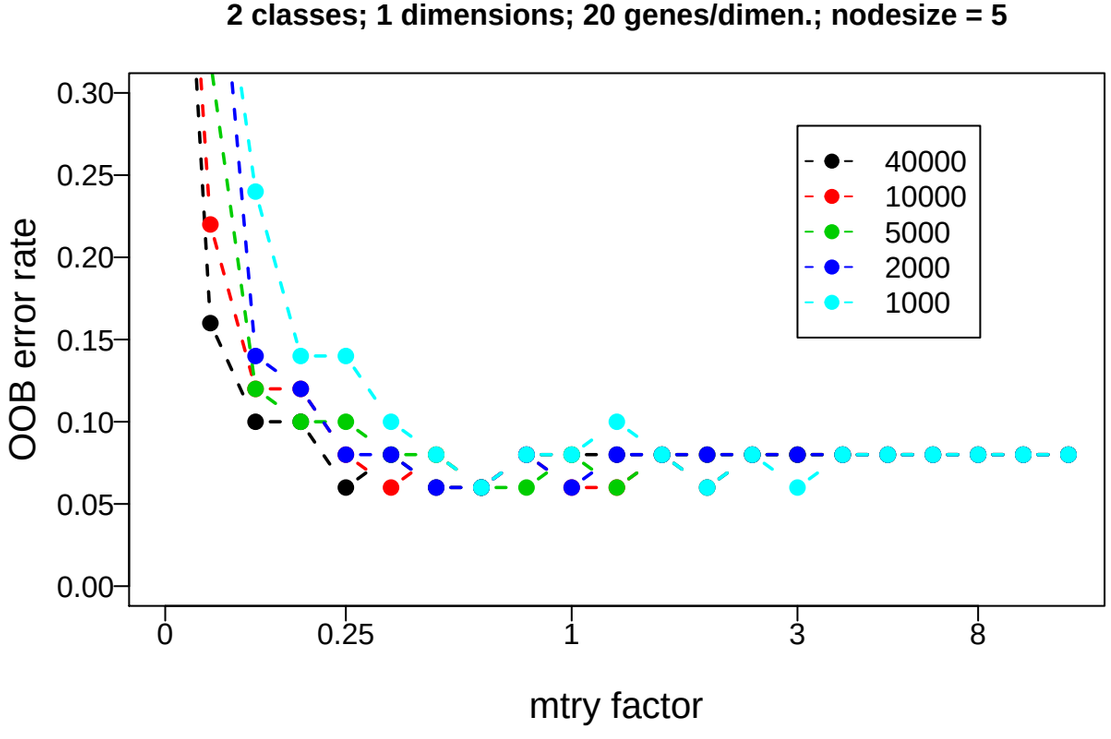

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

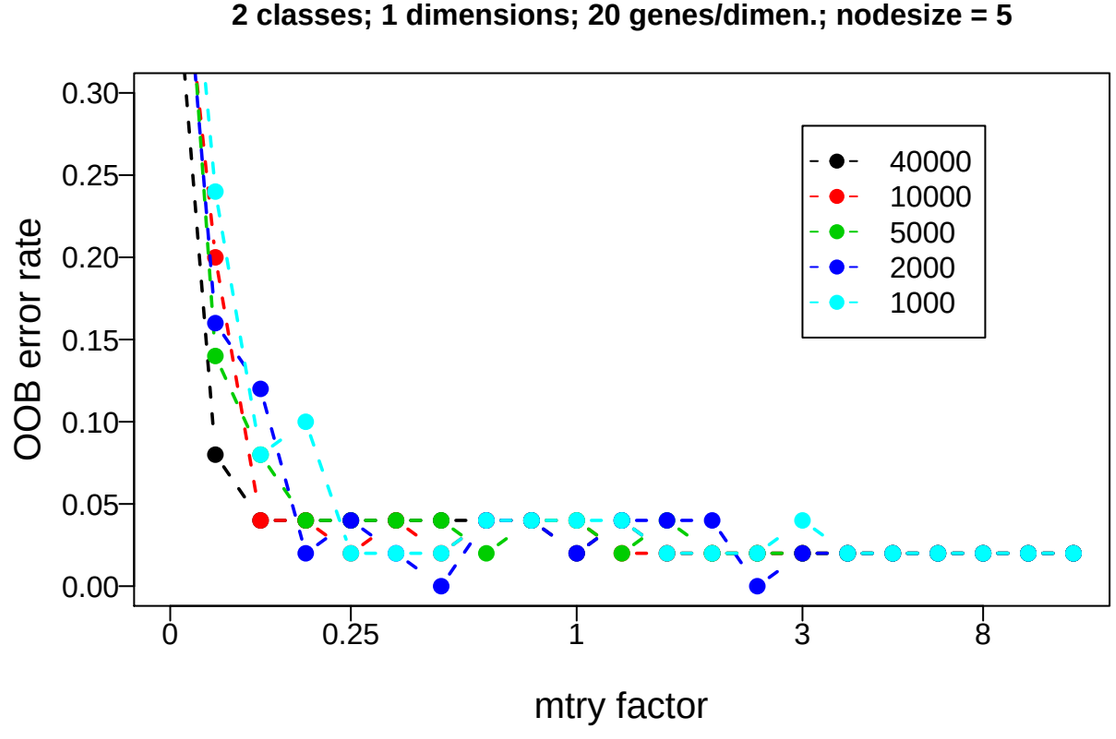

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

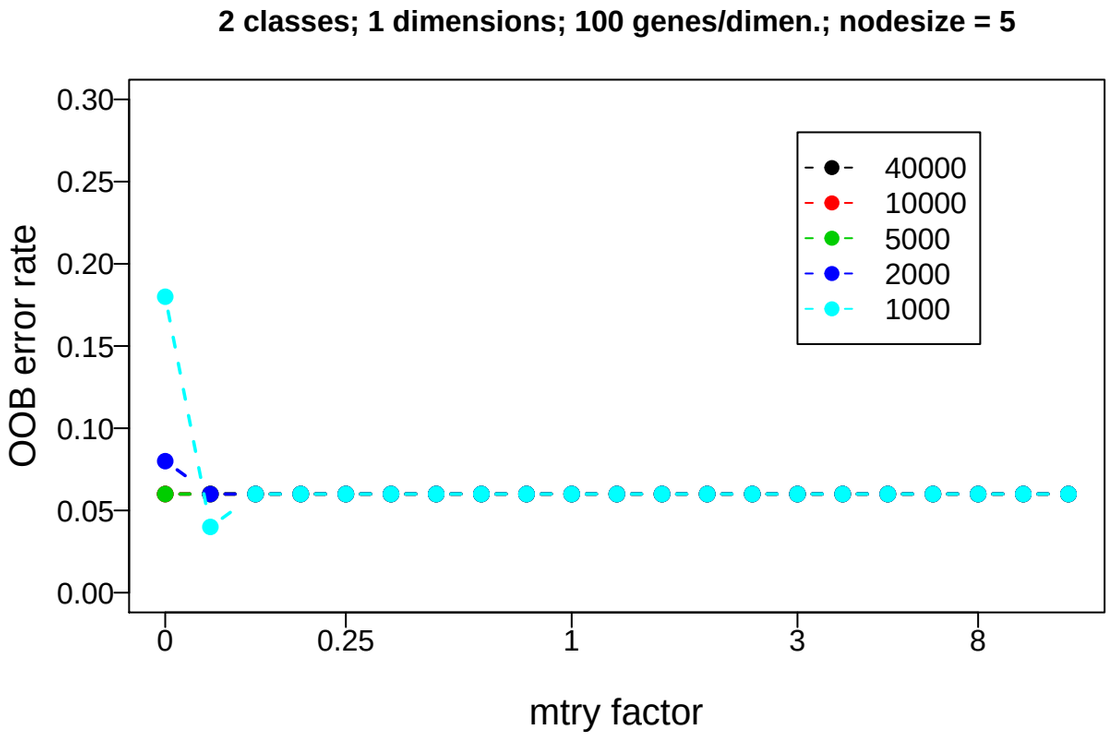

2 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

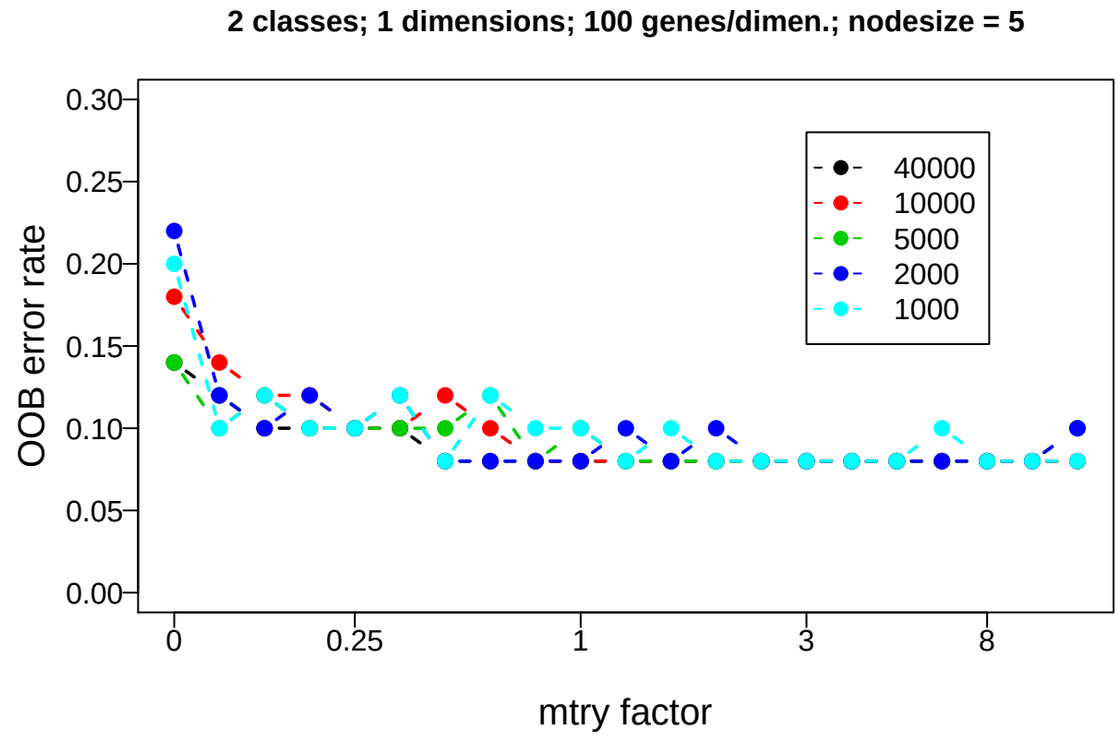

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

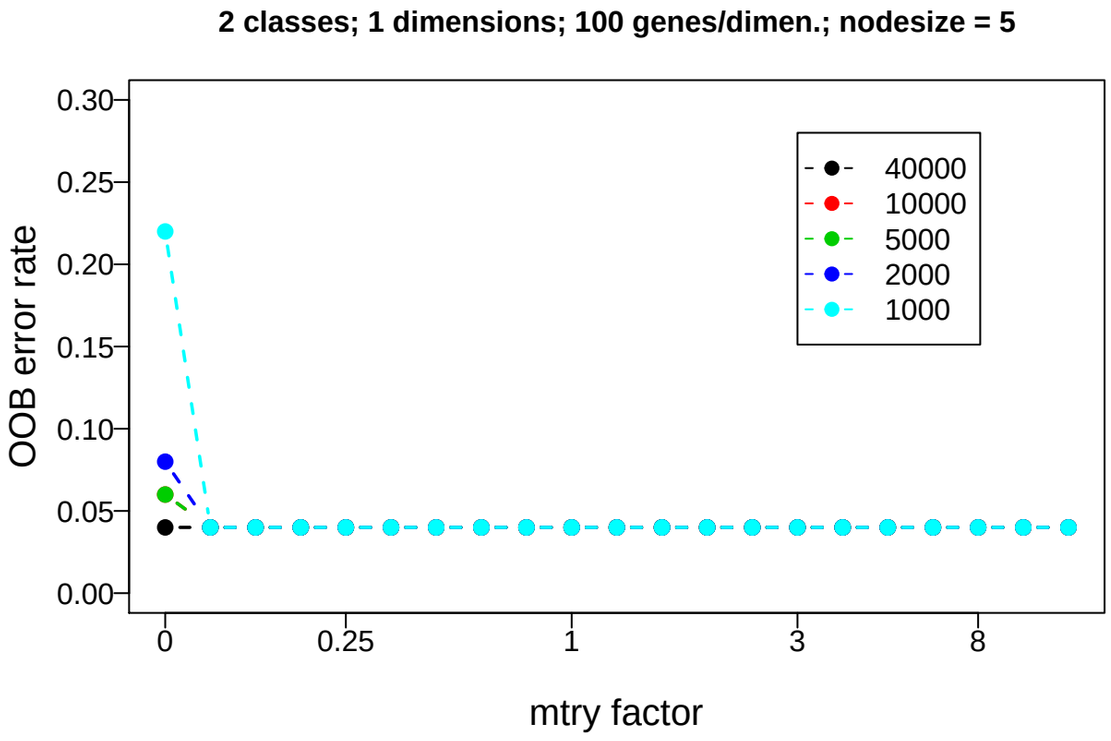

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

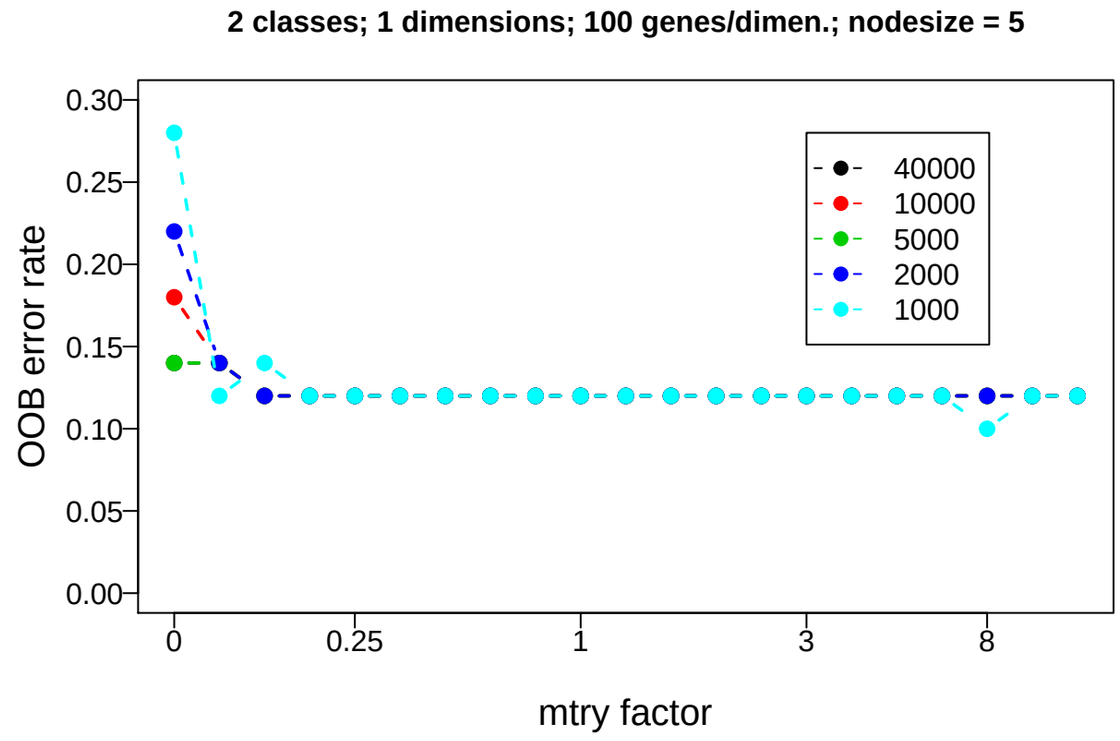

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

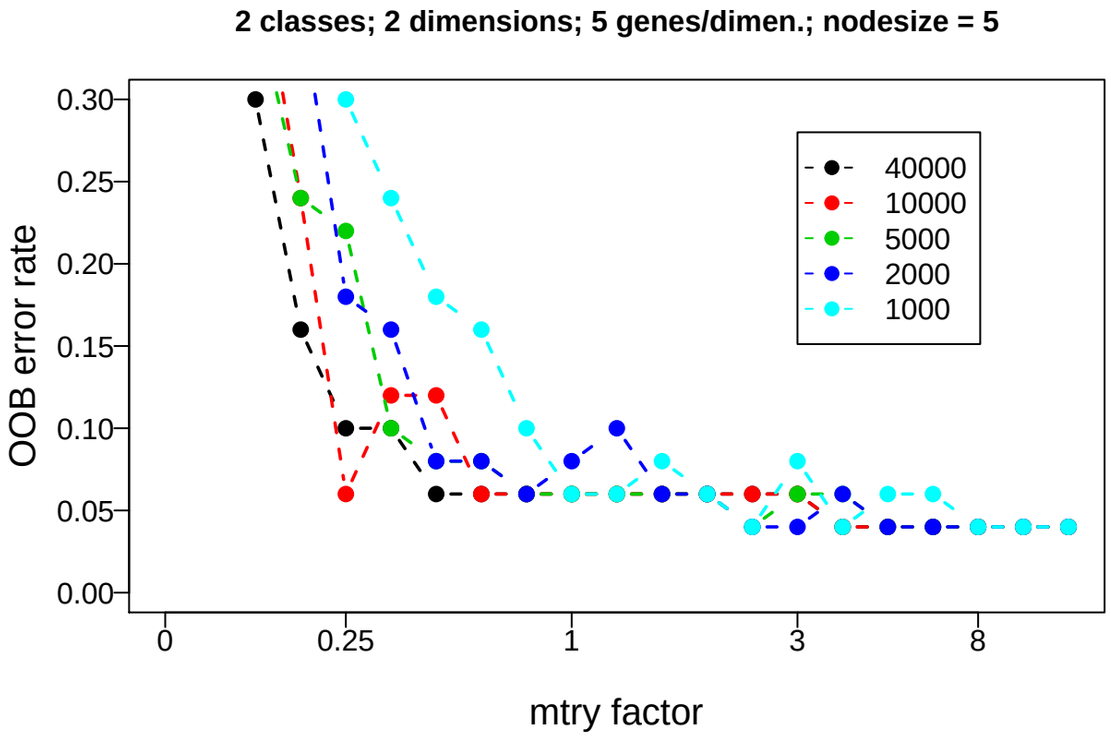

2 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

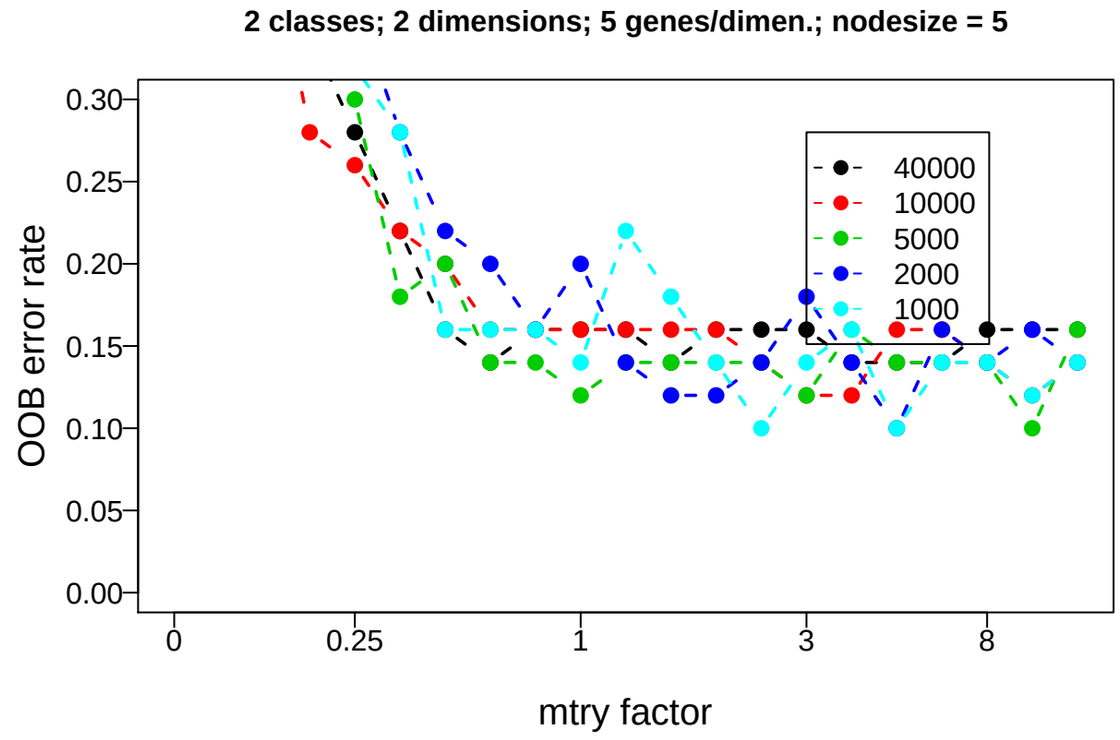

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

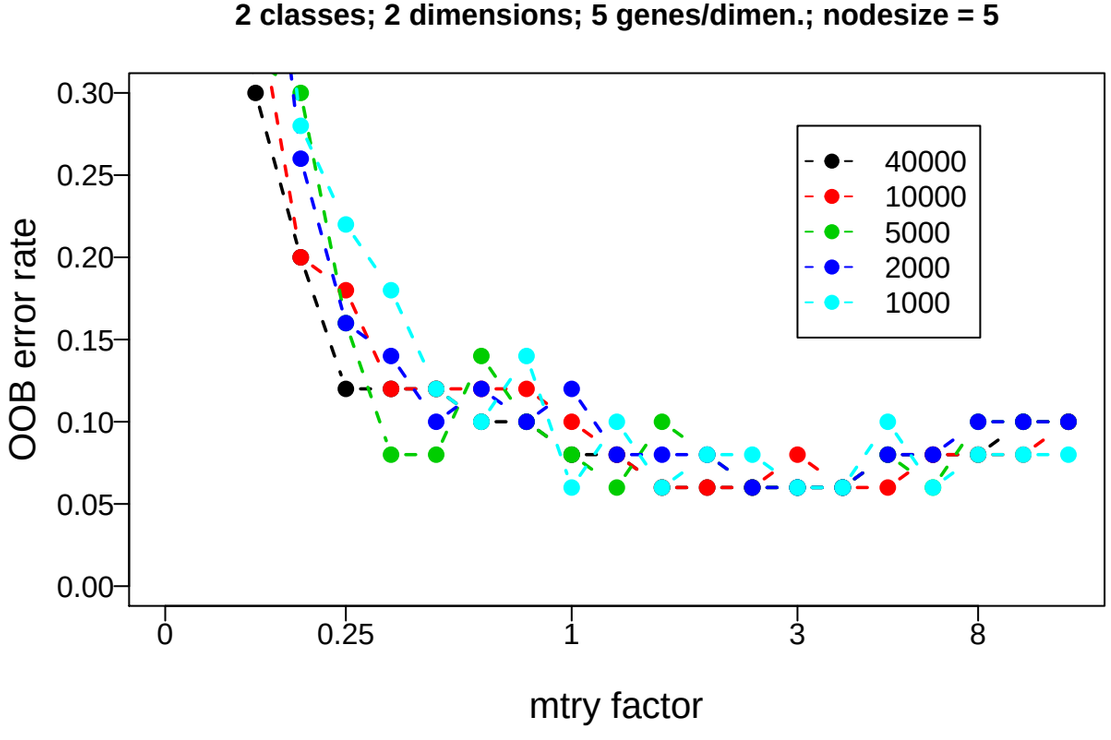

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

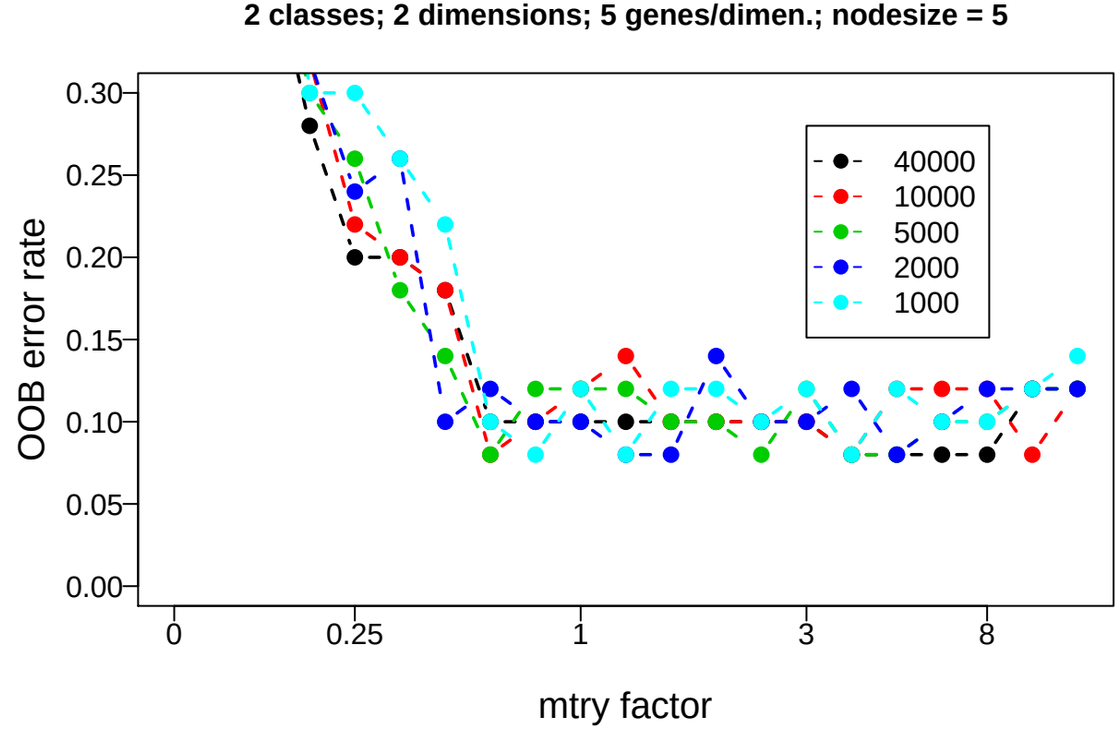

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

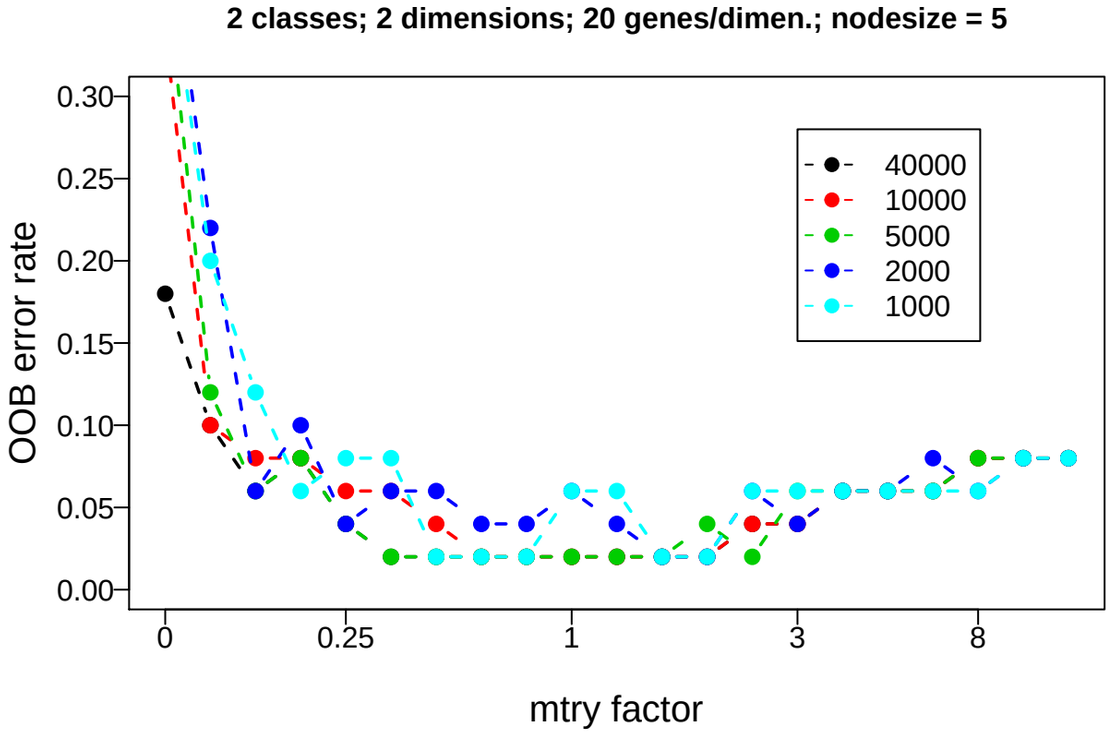

2 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

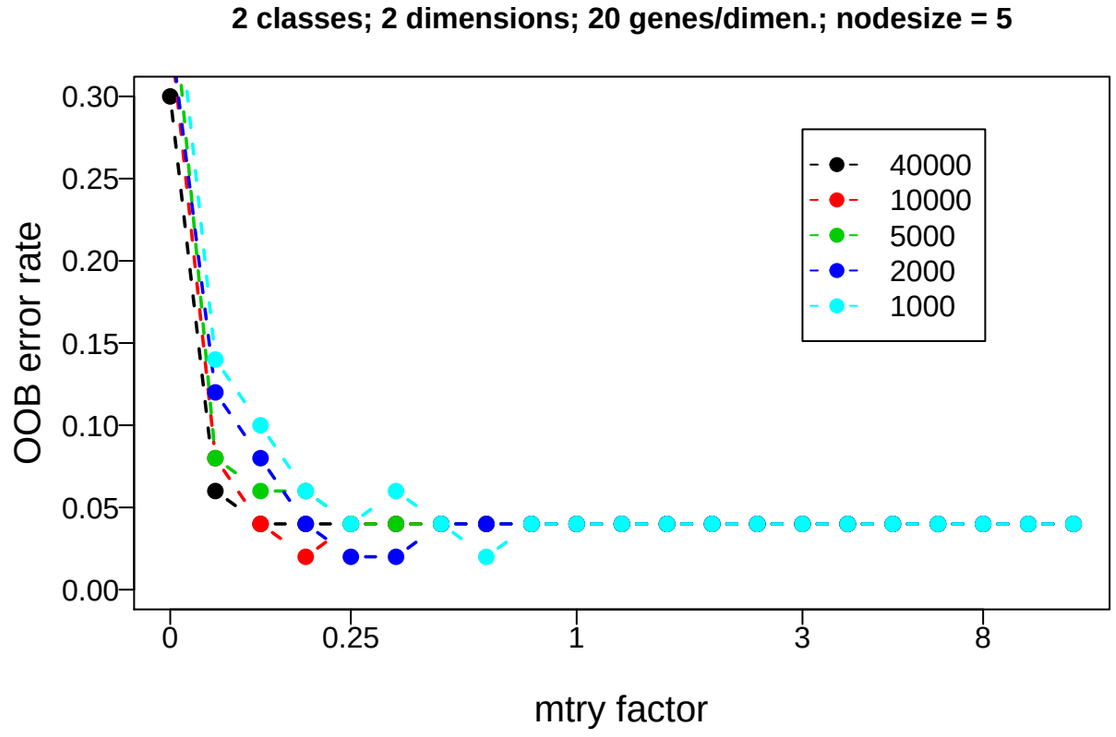

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

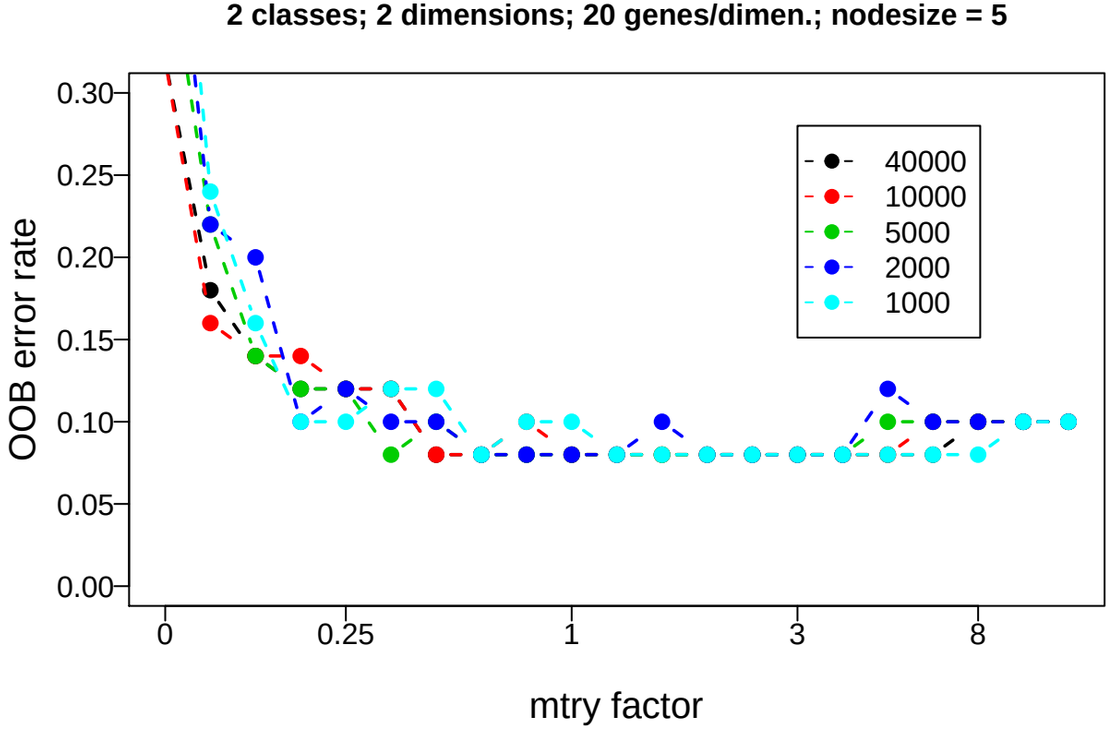

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

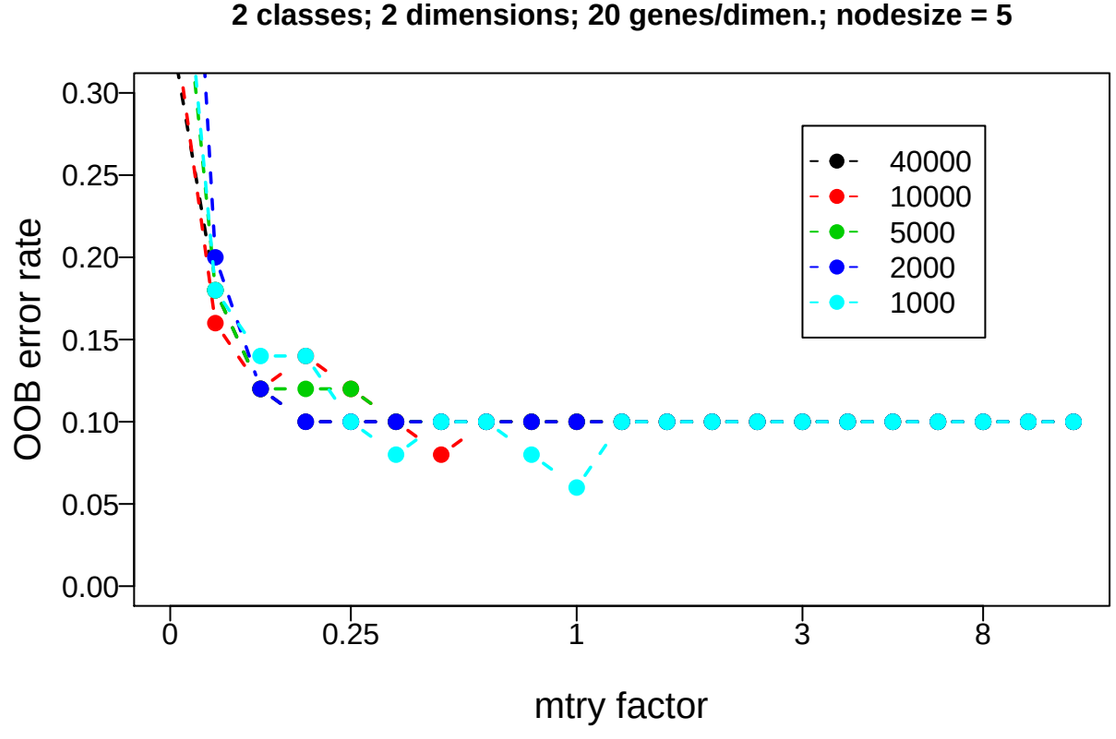

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

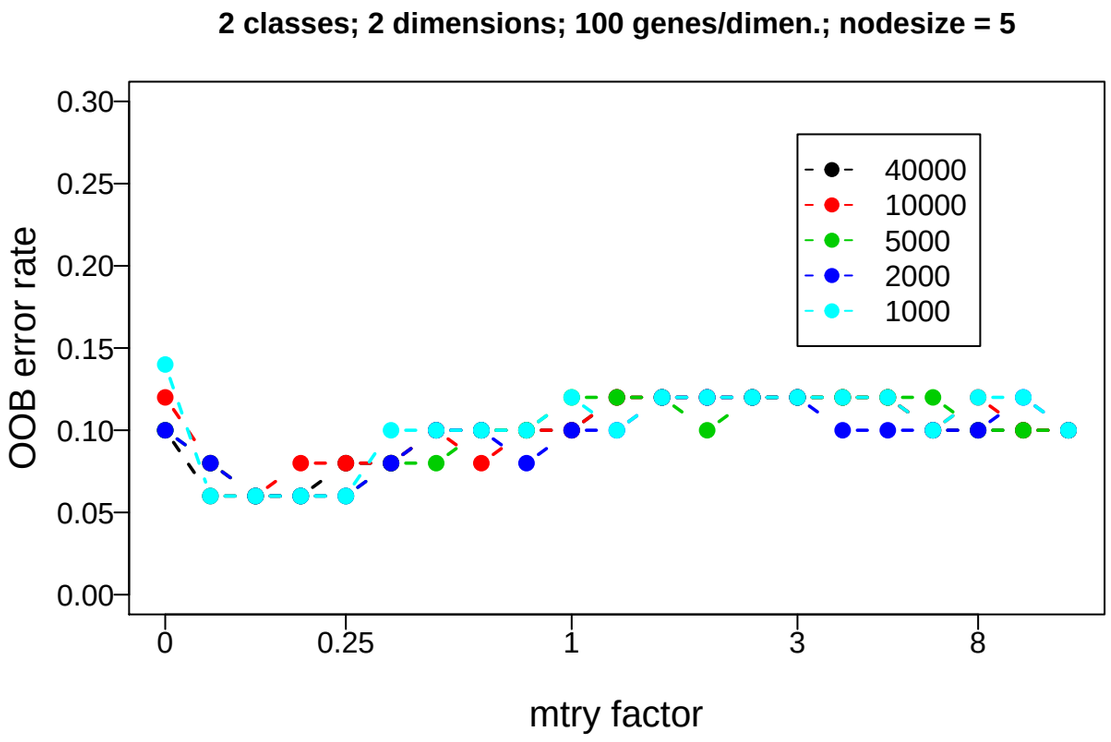

2 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

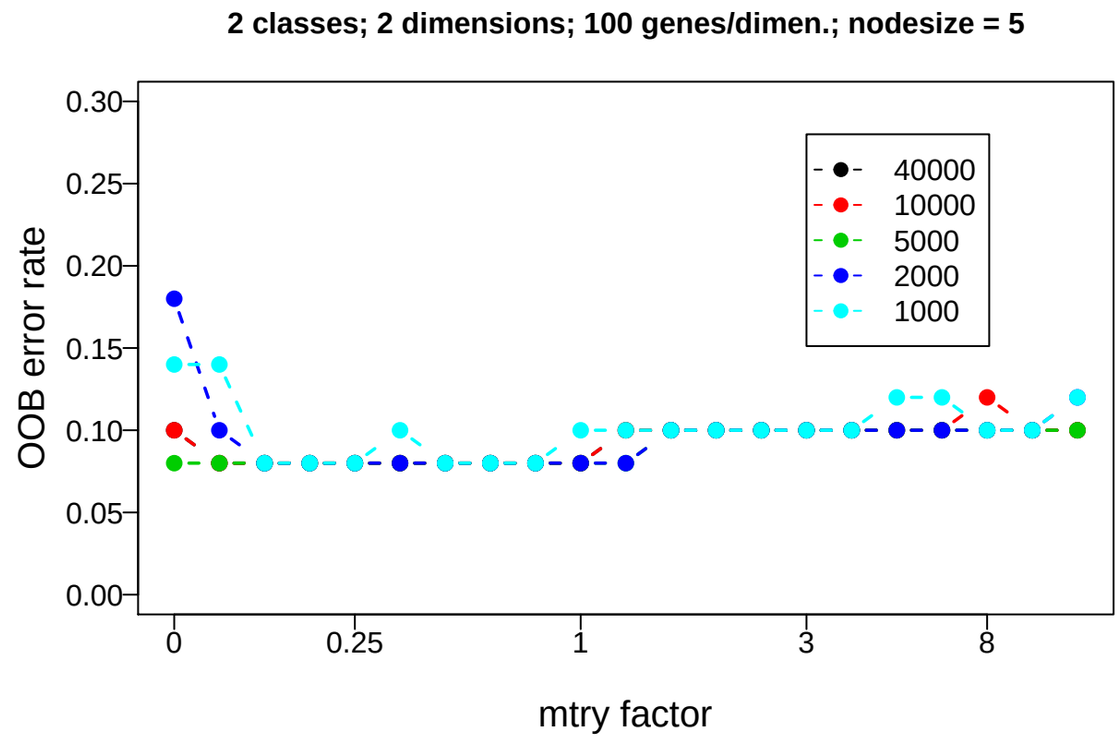

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

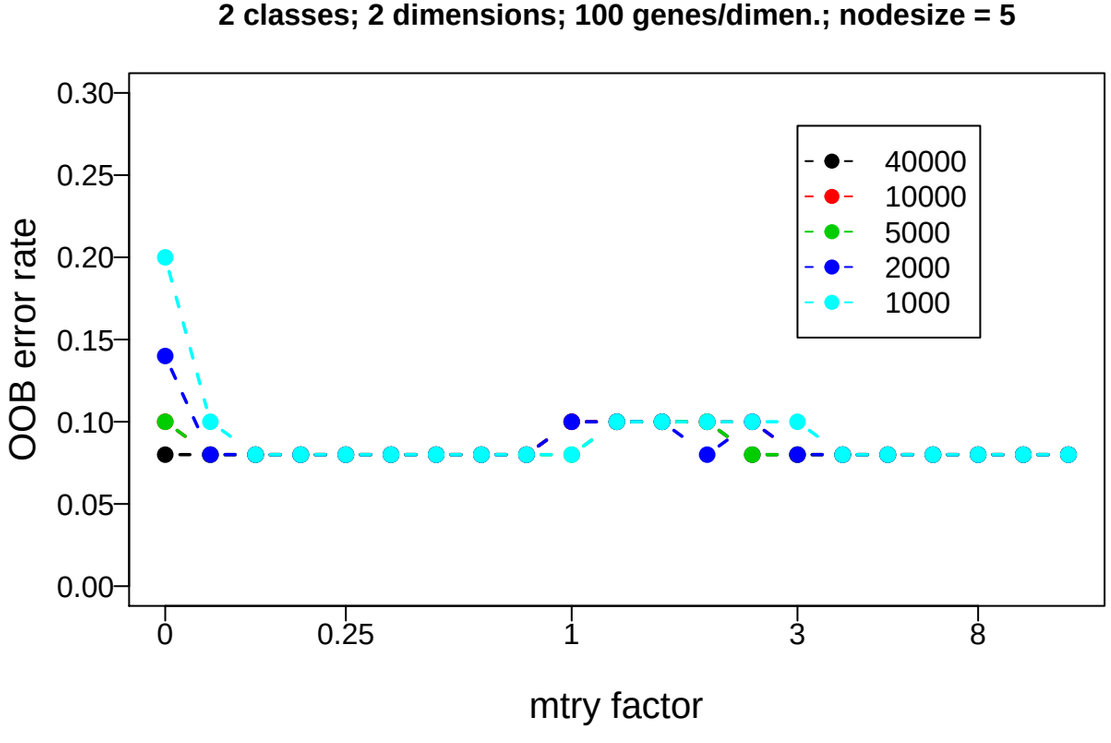

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

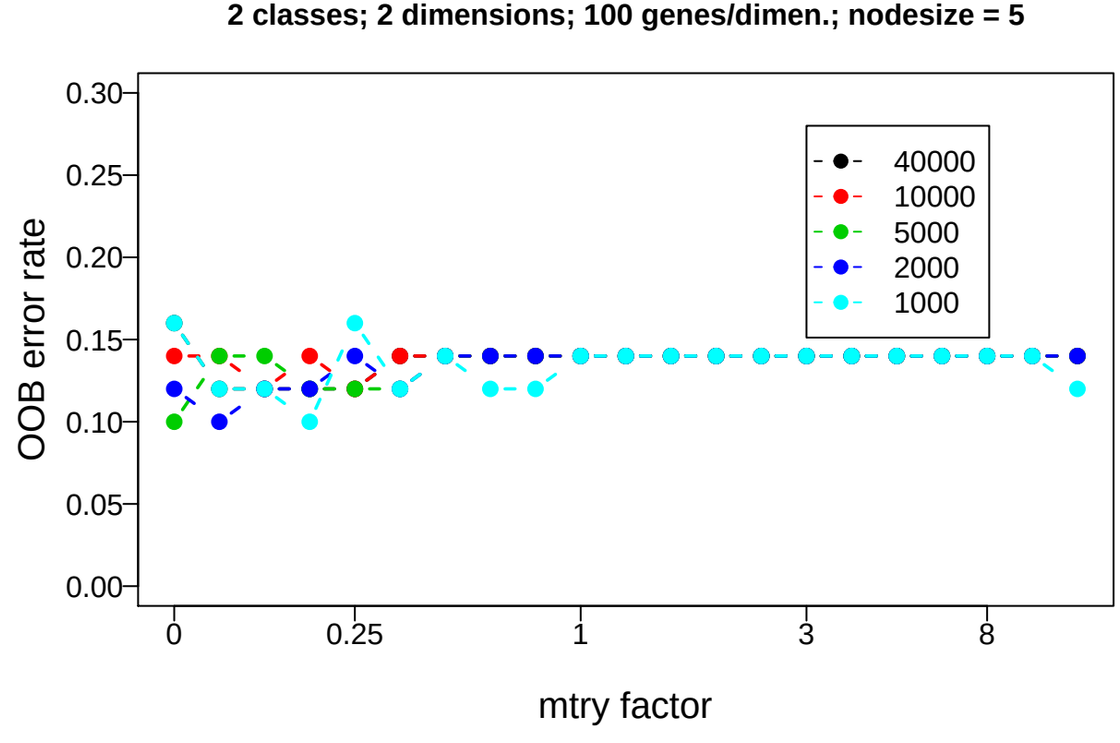

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

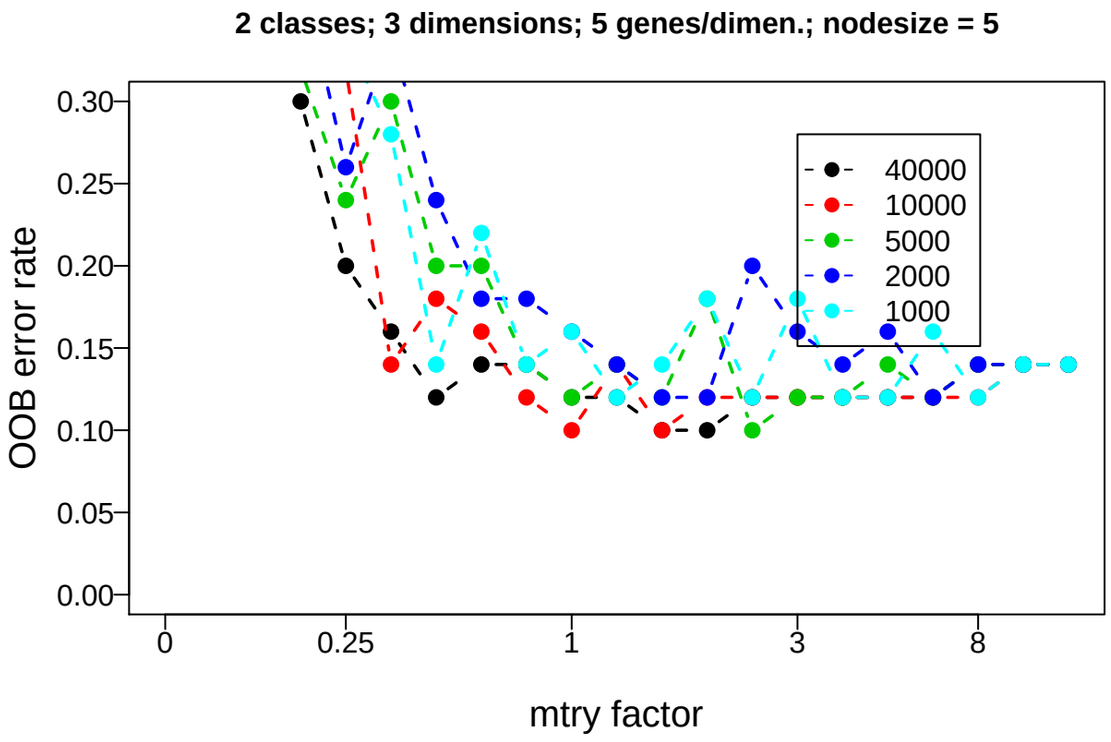

2 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

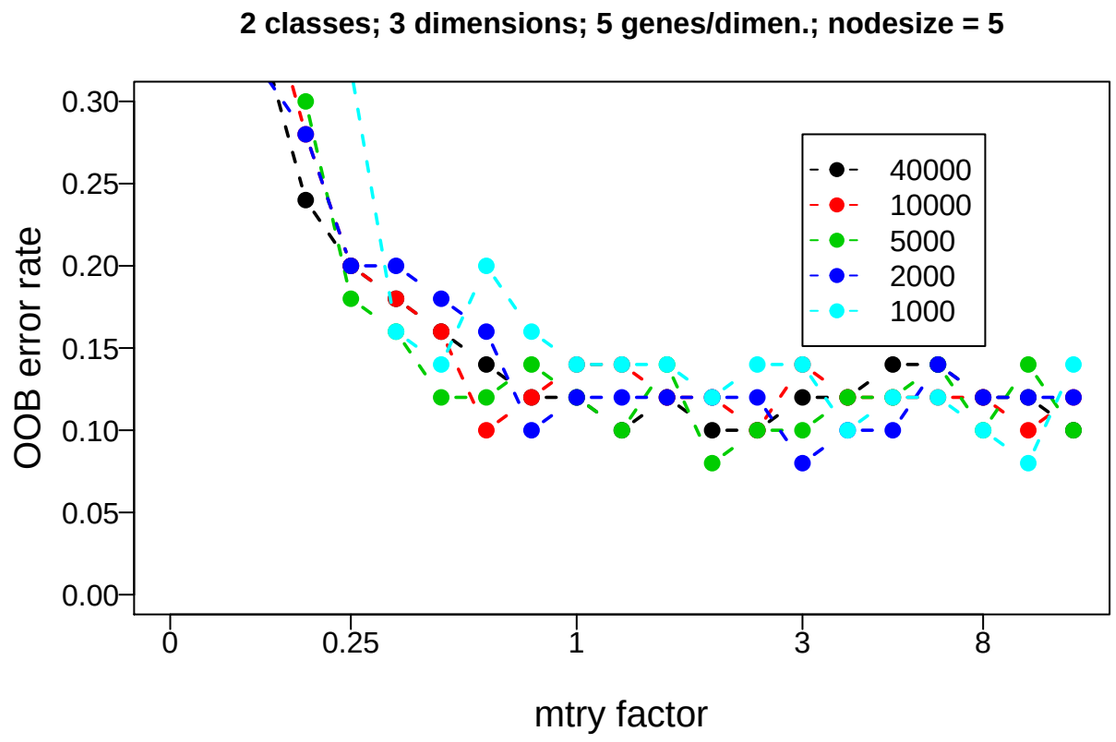

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

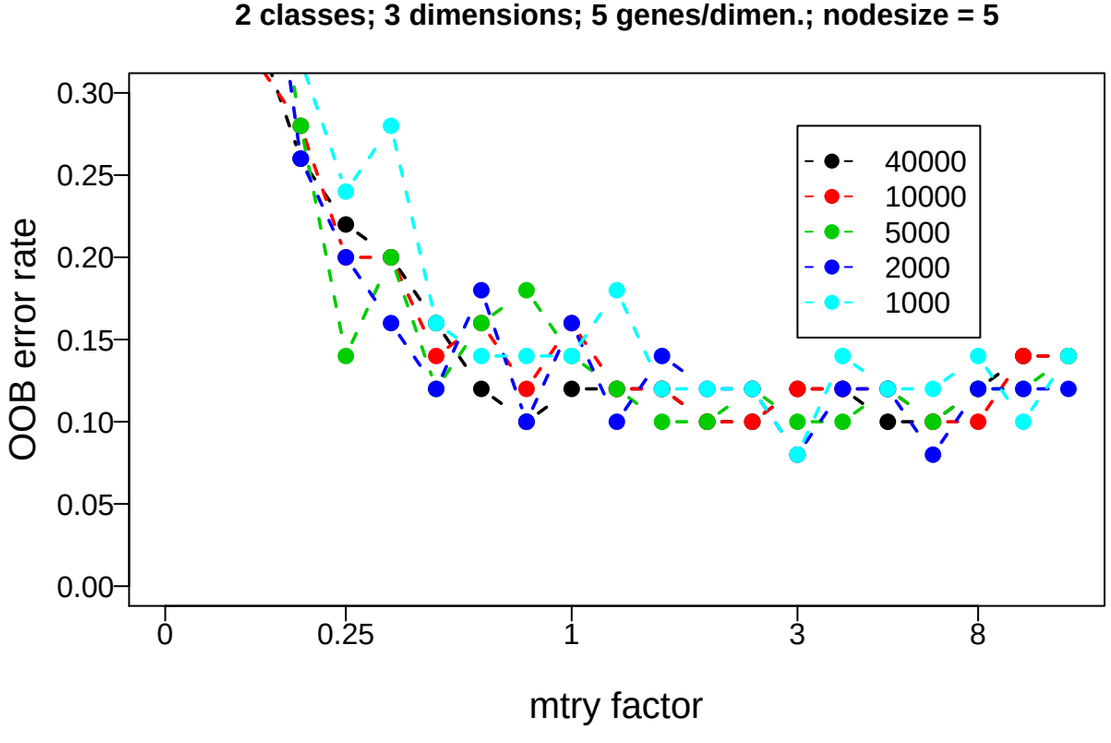

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

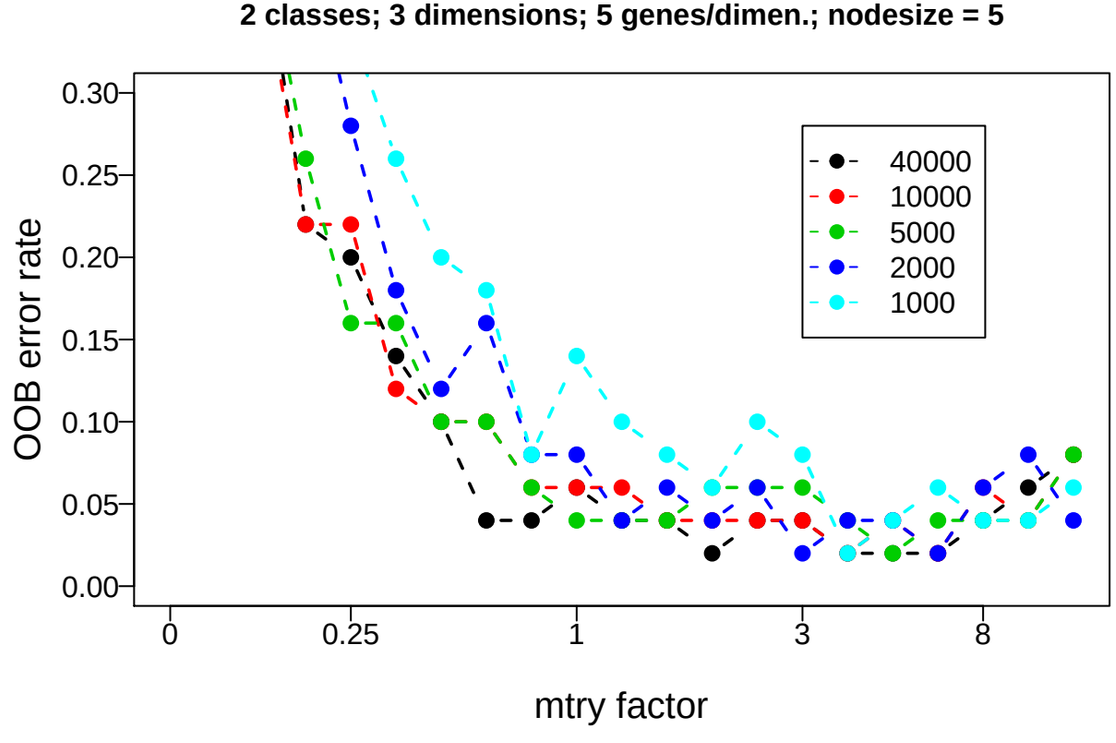

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

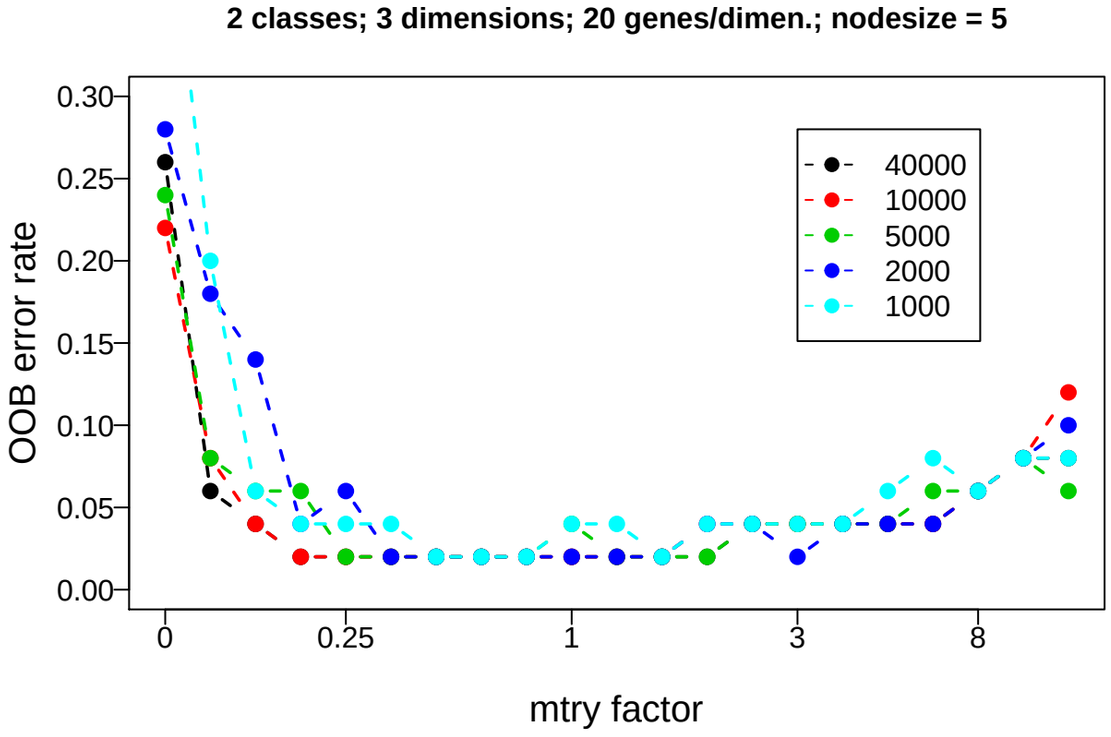

2 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

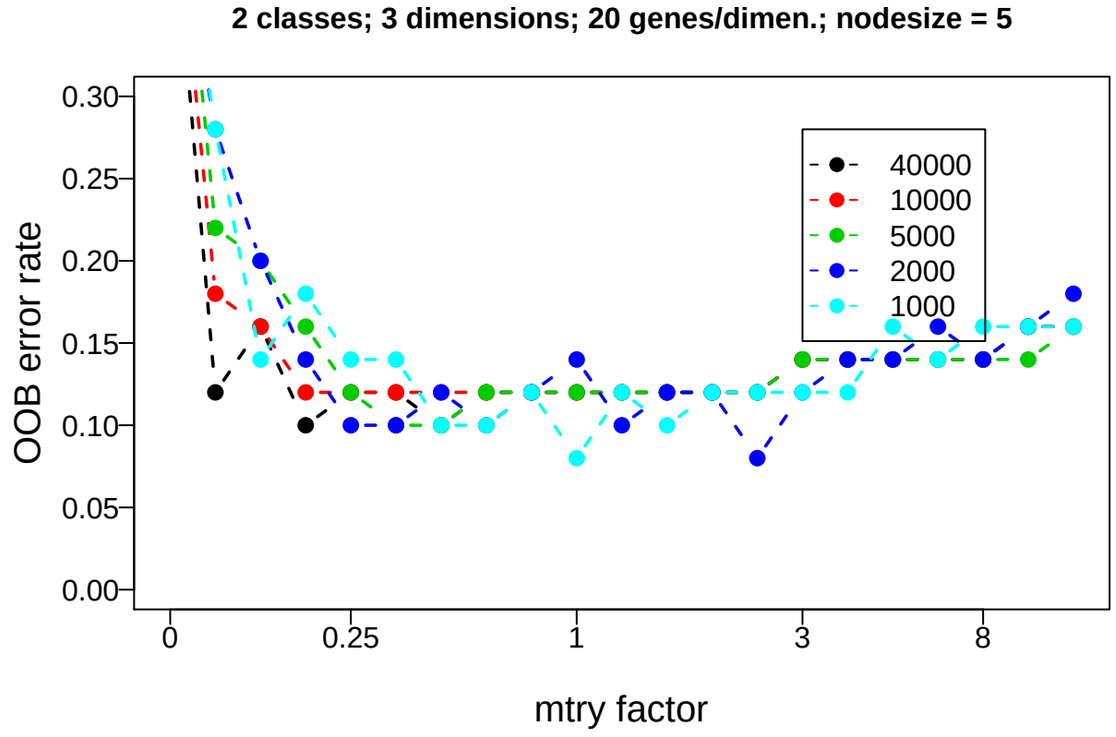

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

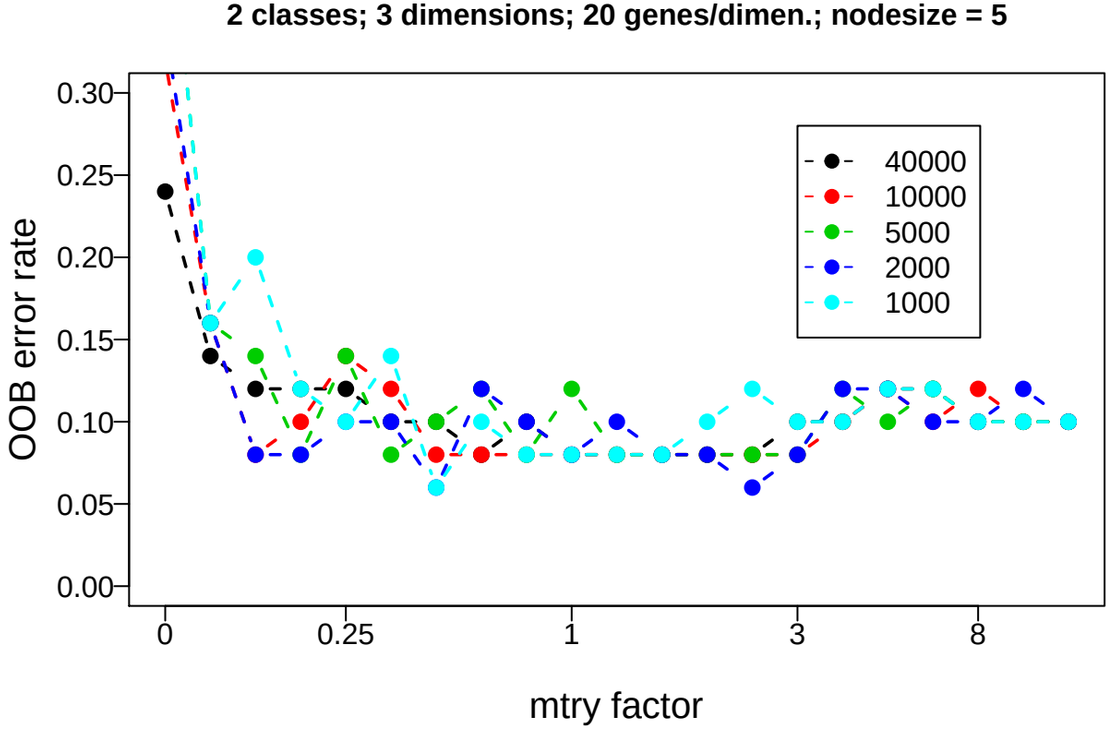

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

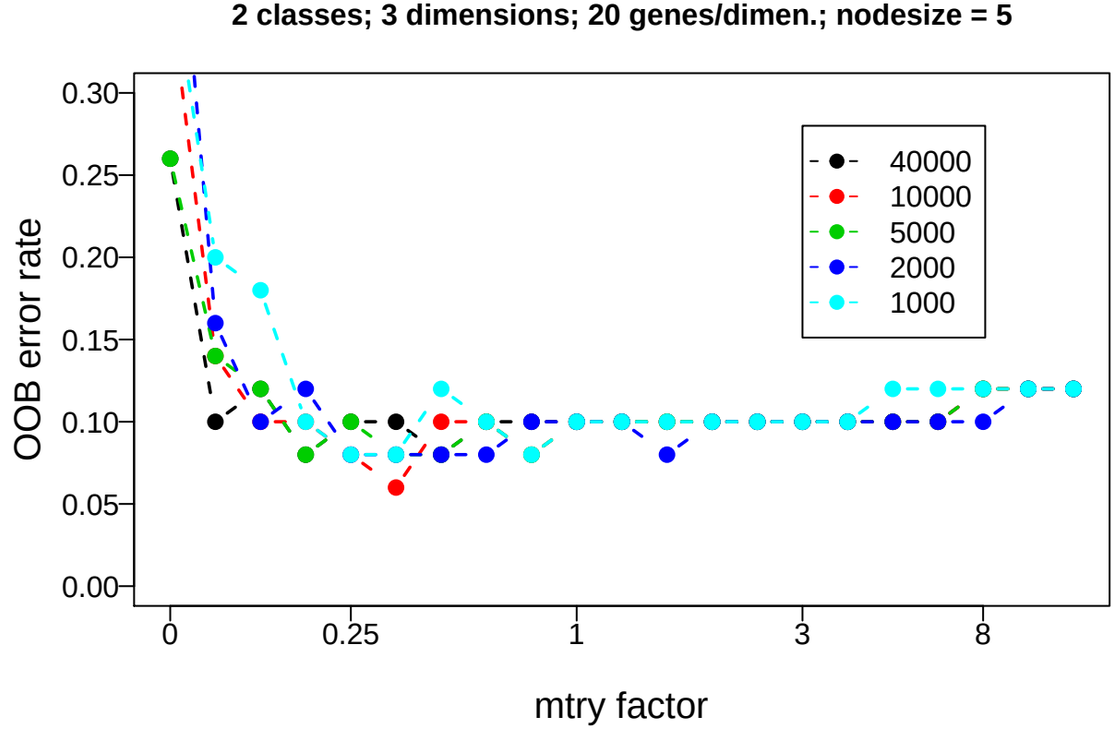

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

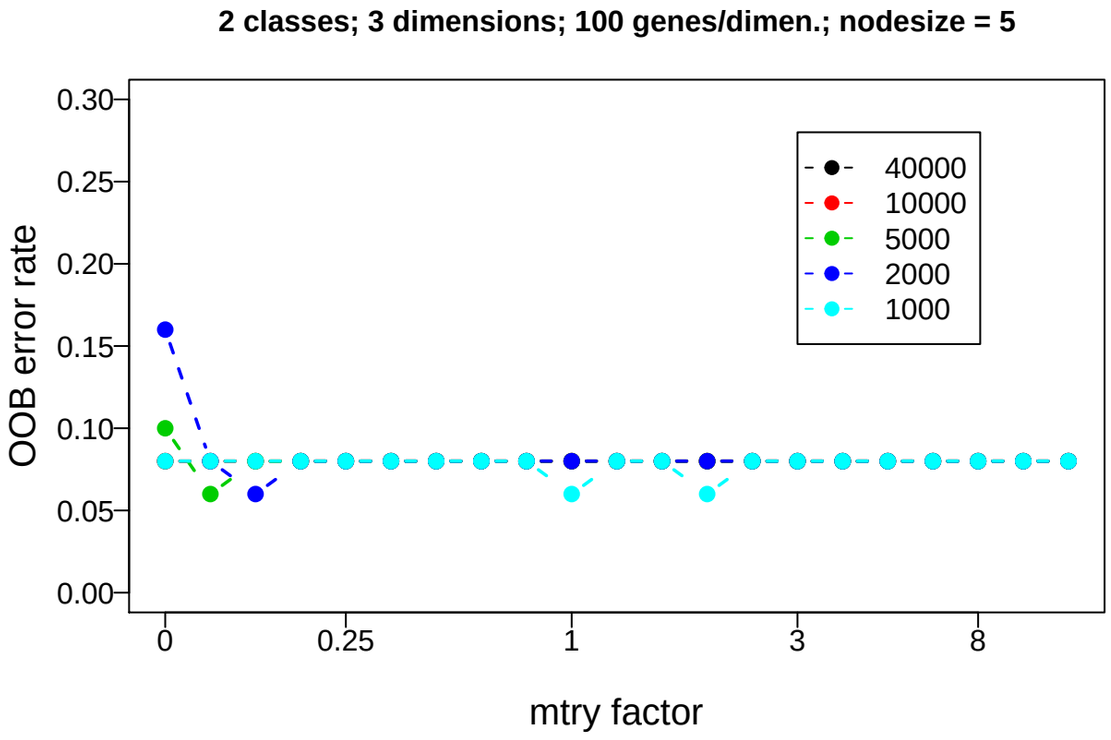

2 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

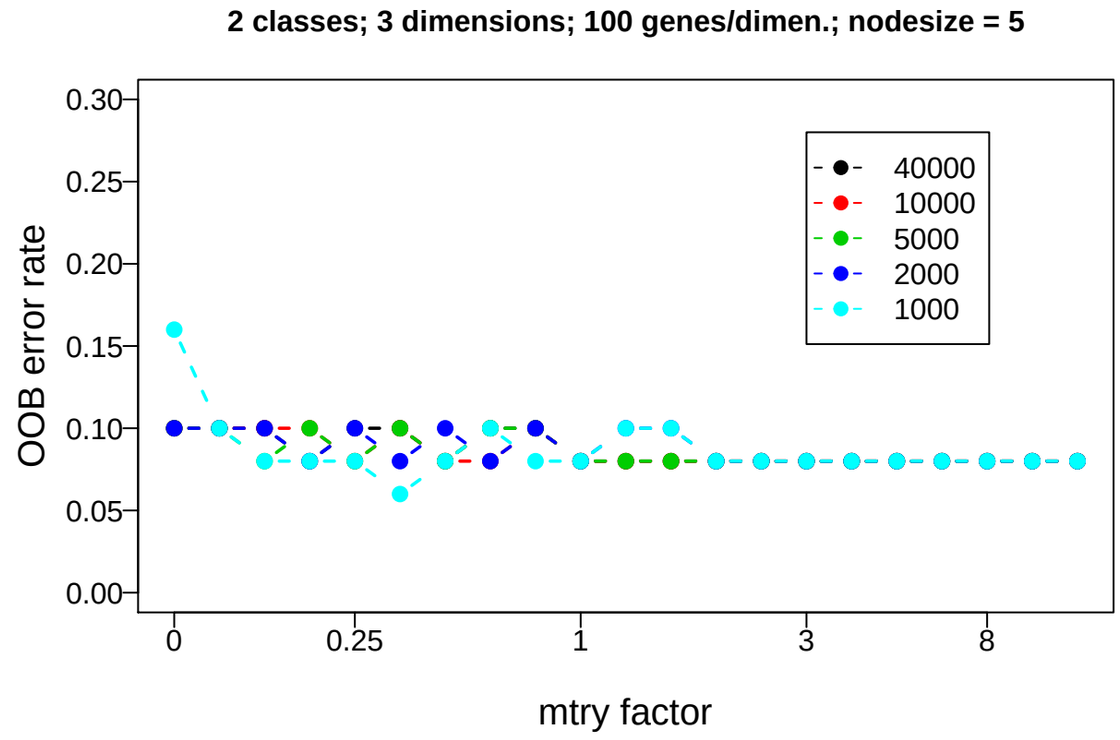

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

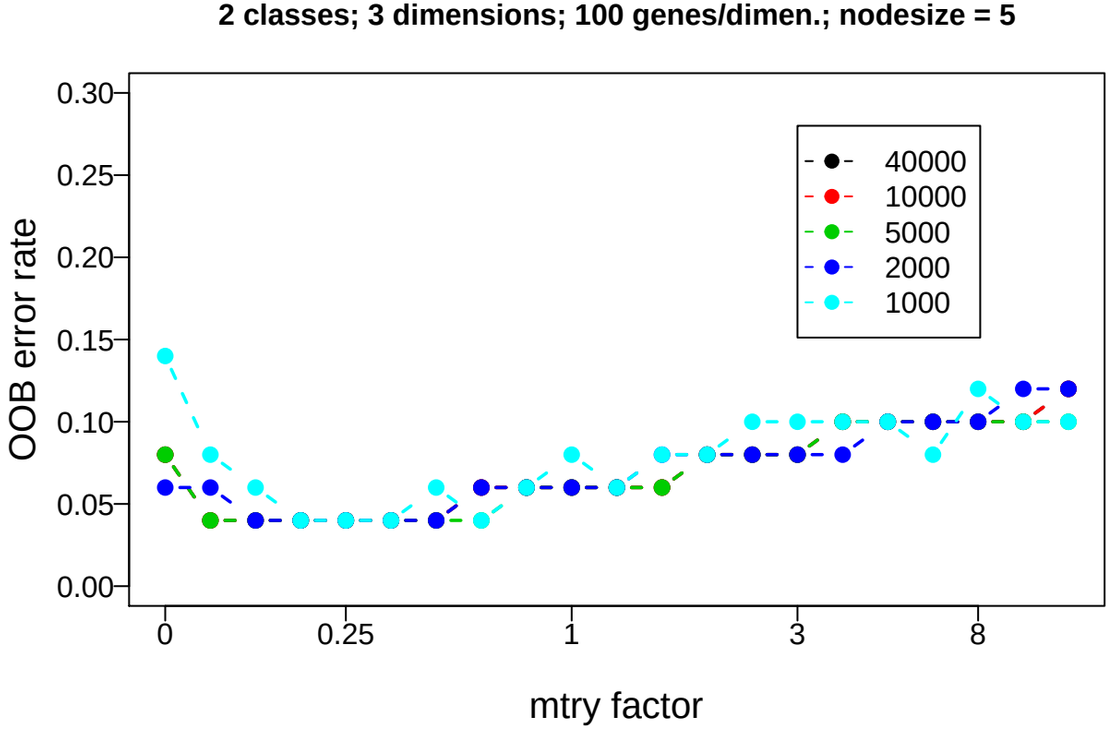

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

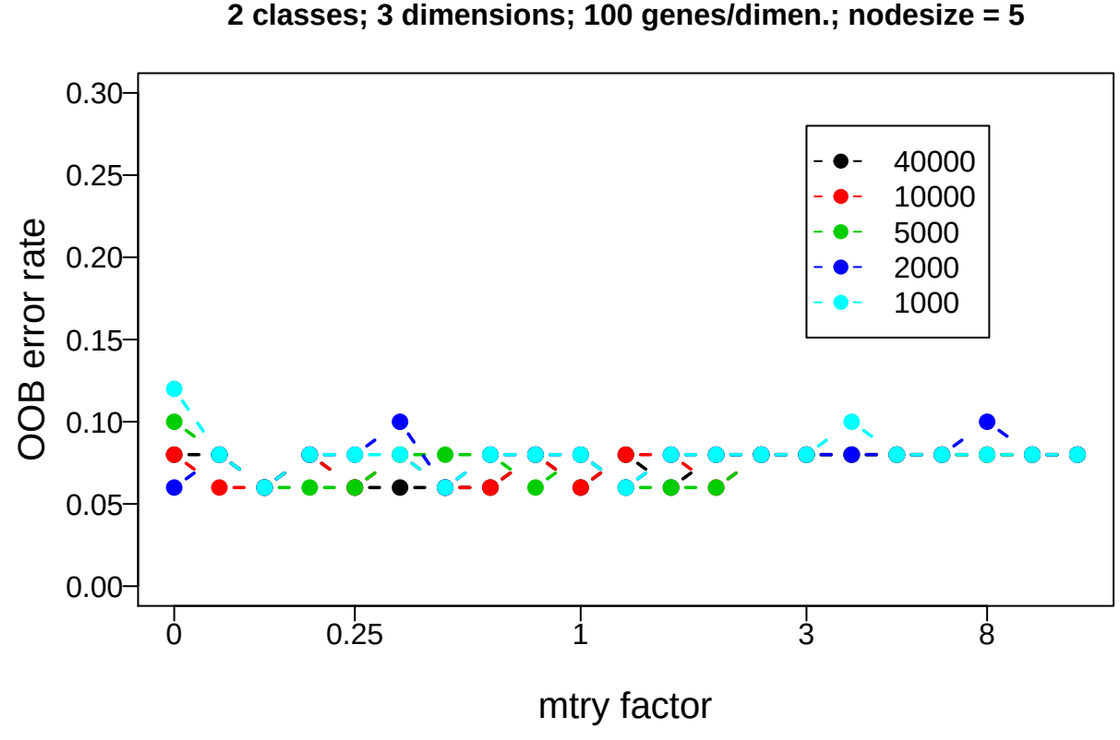

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

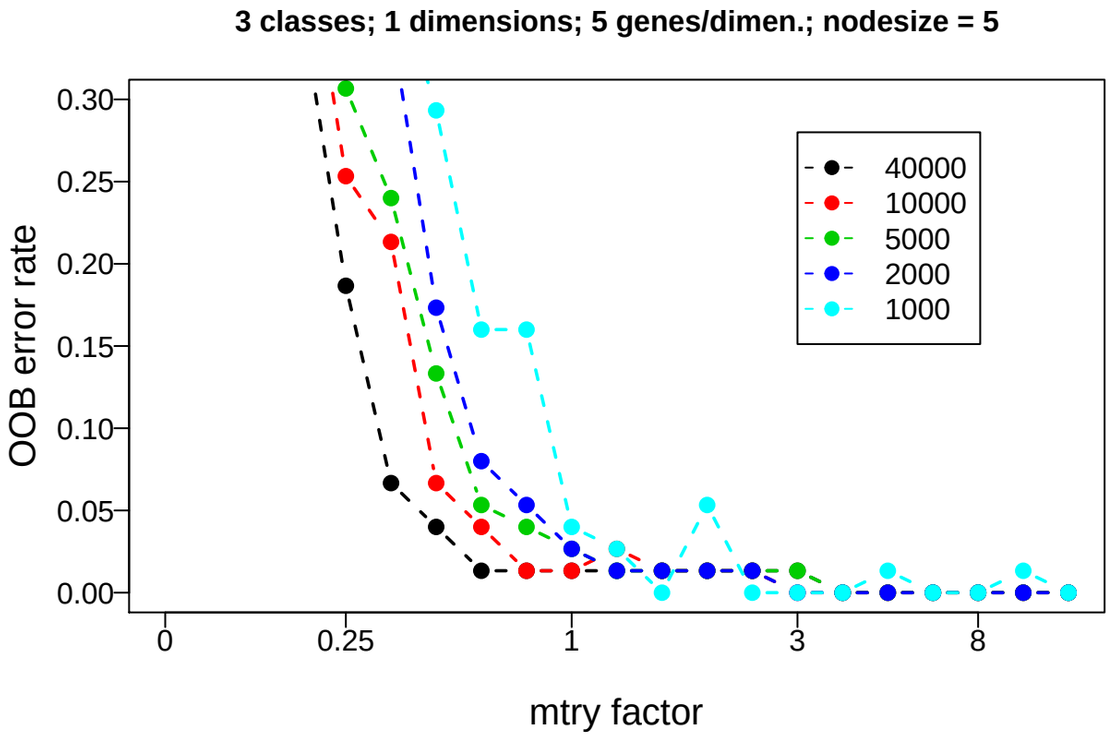

2 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

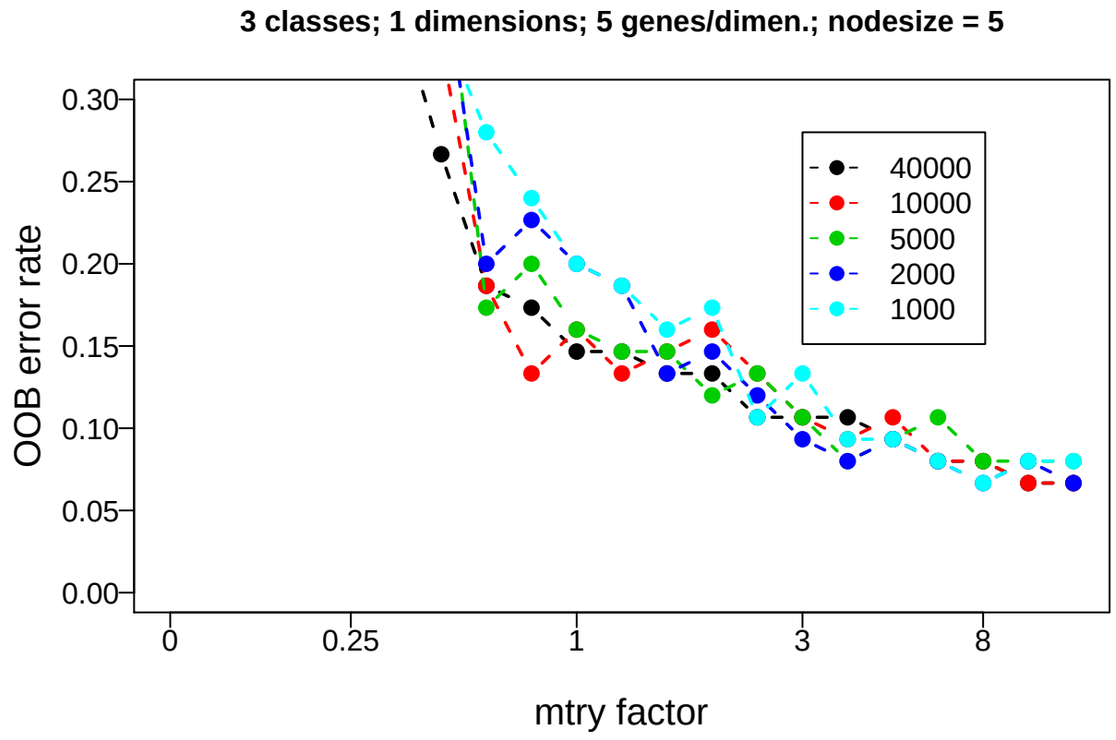

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

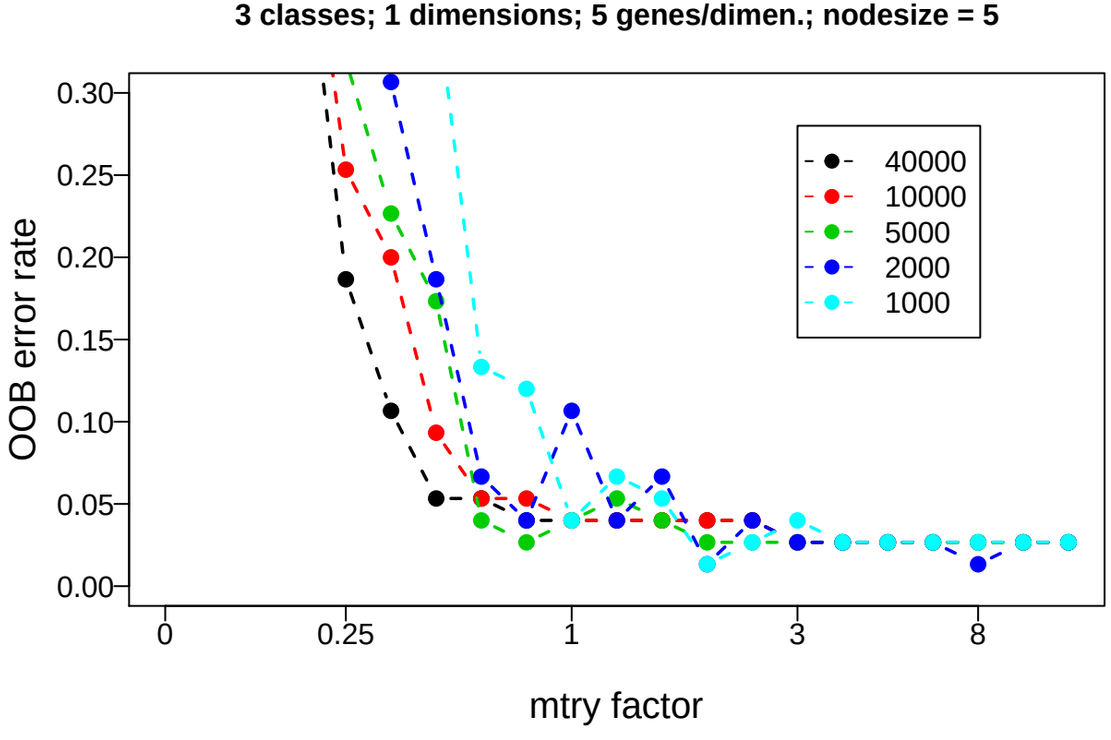

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

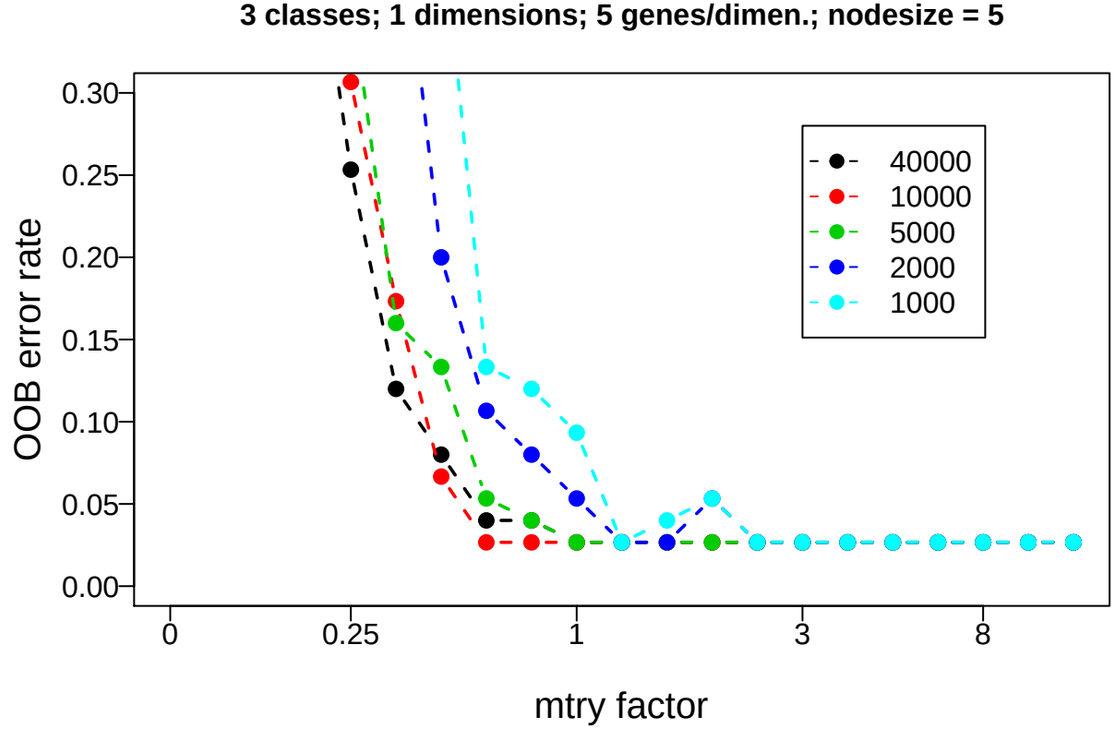

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

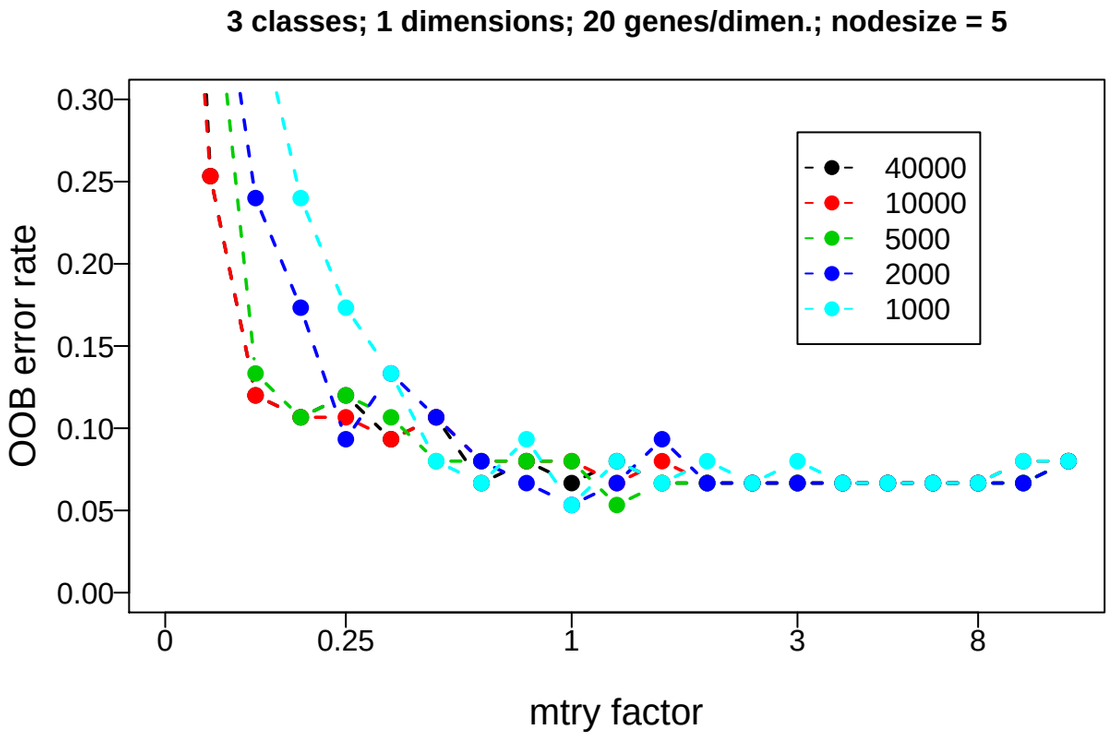

2 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

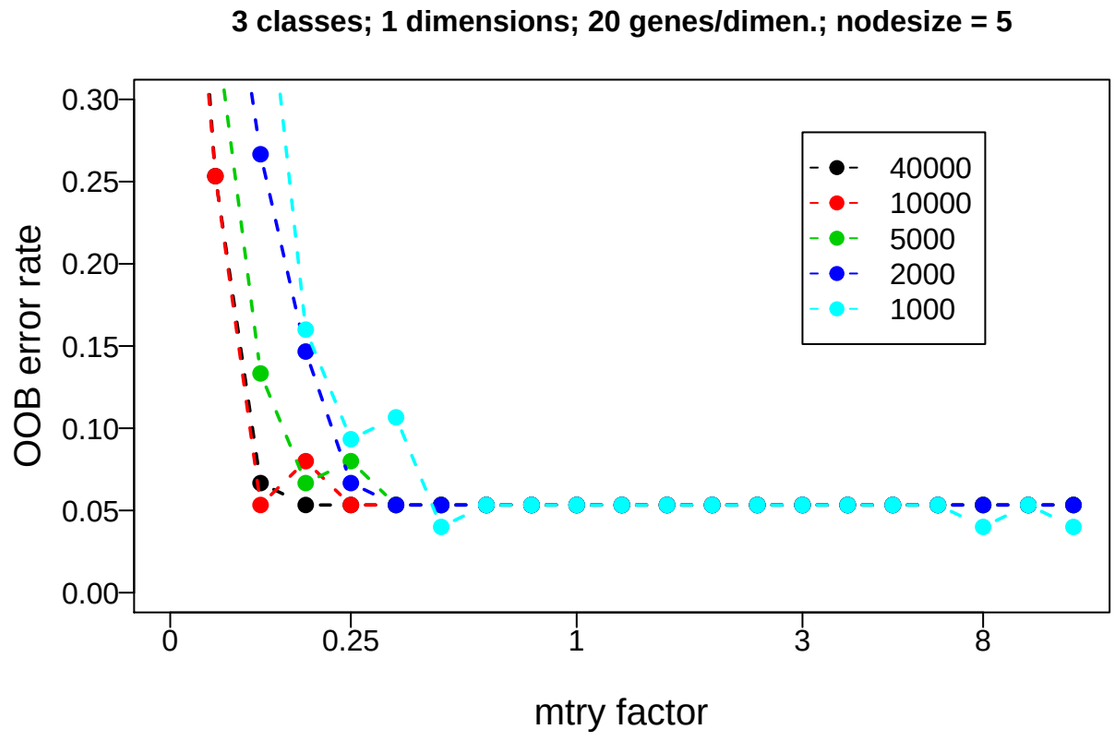

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

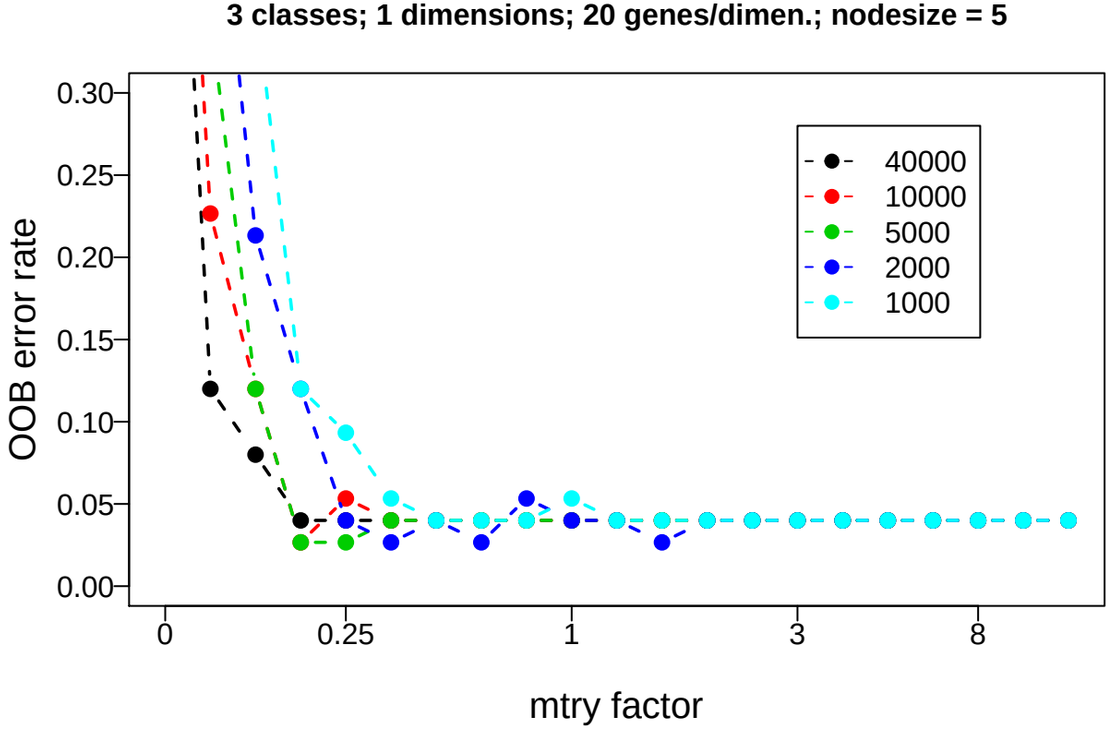

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

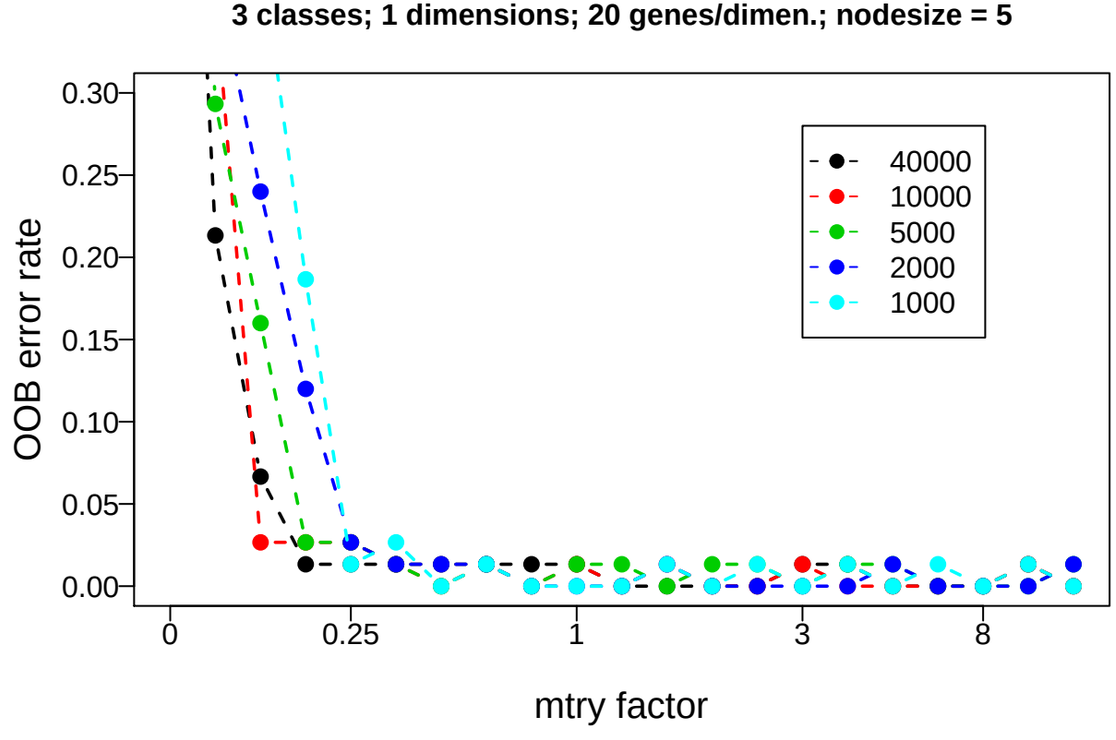

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

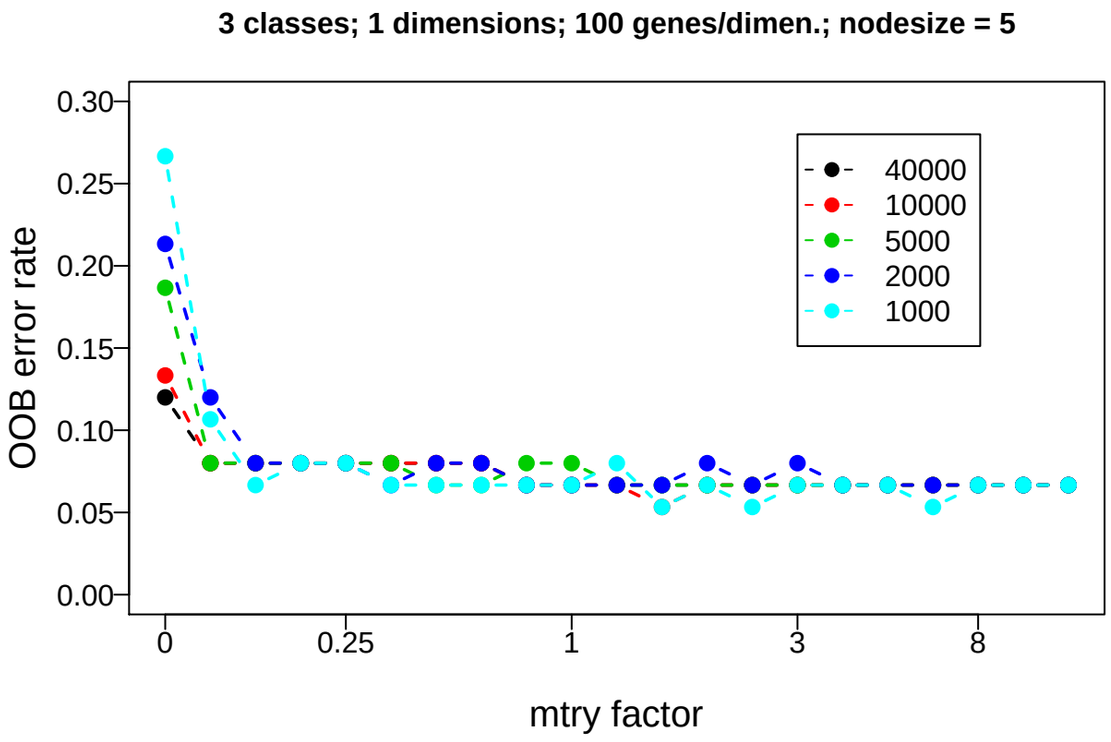

3 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

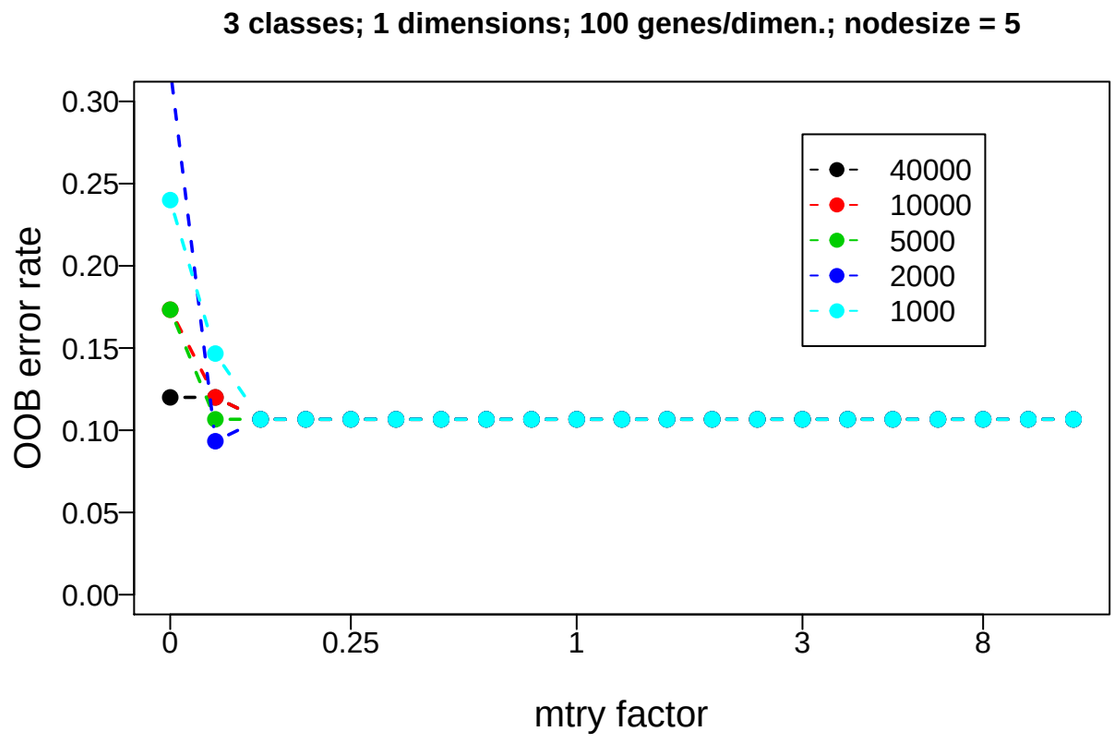

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

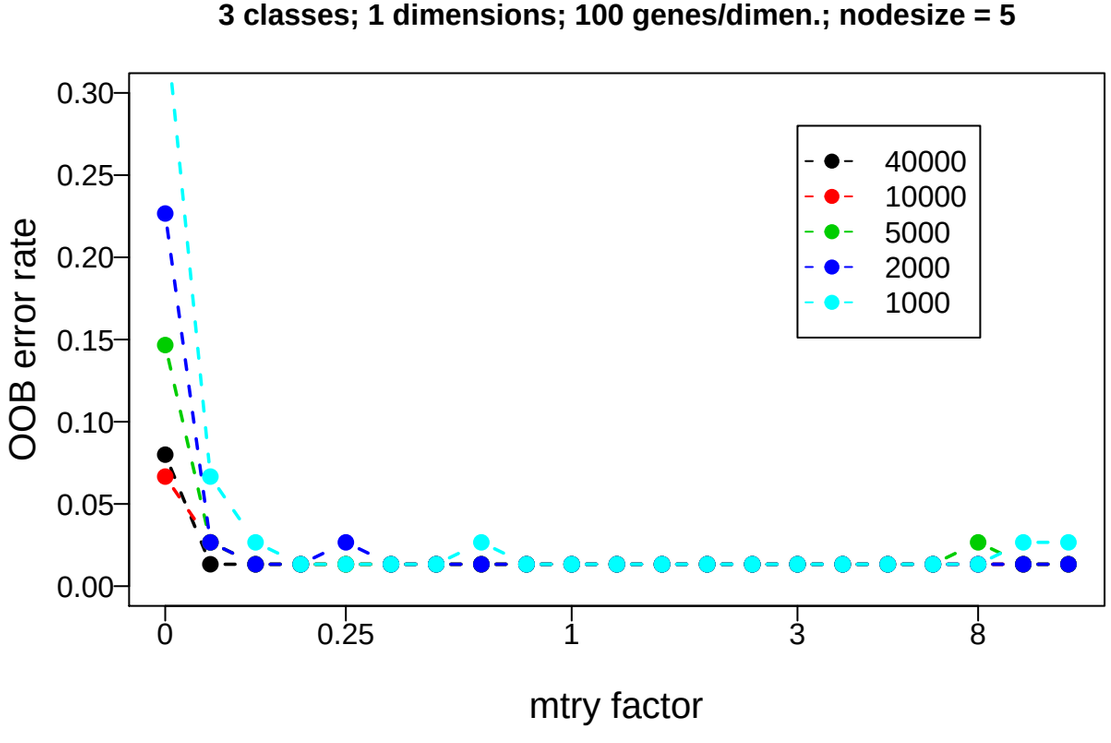

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

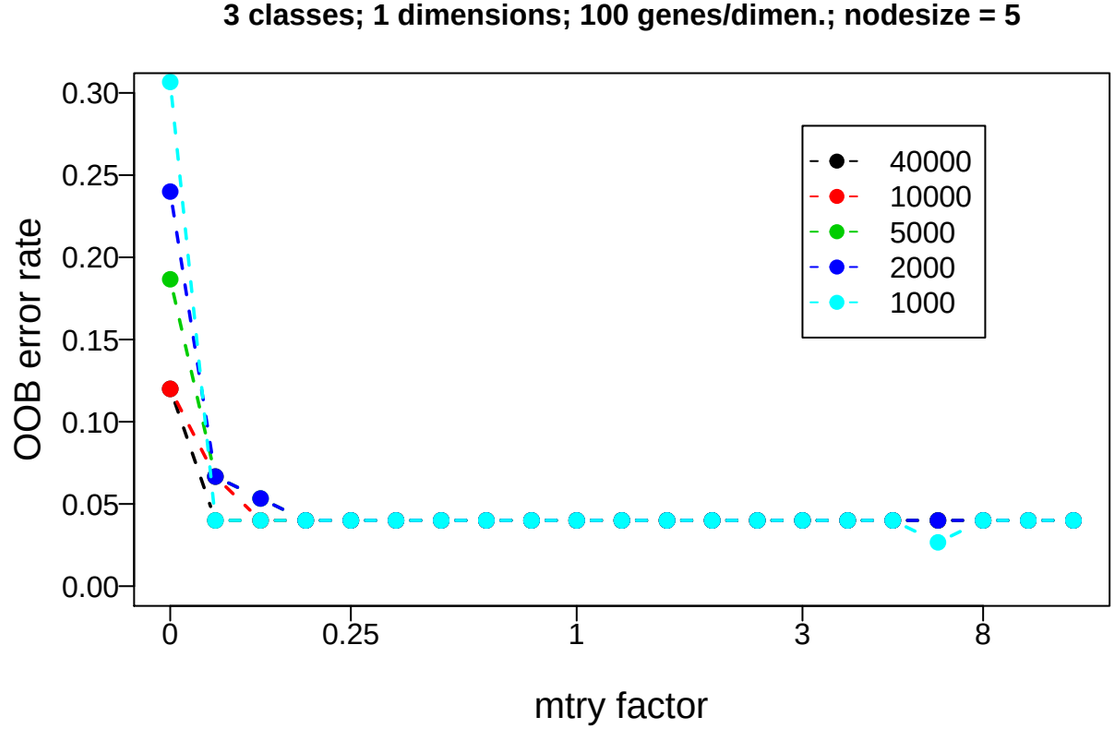

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

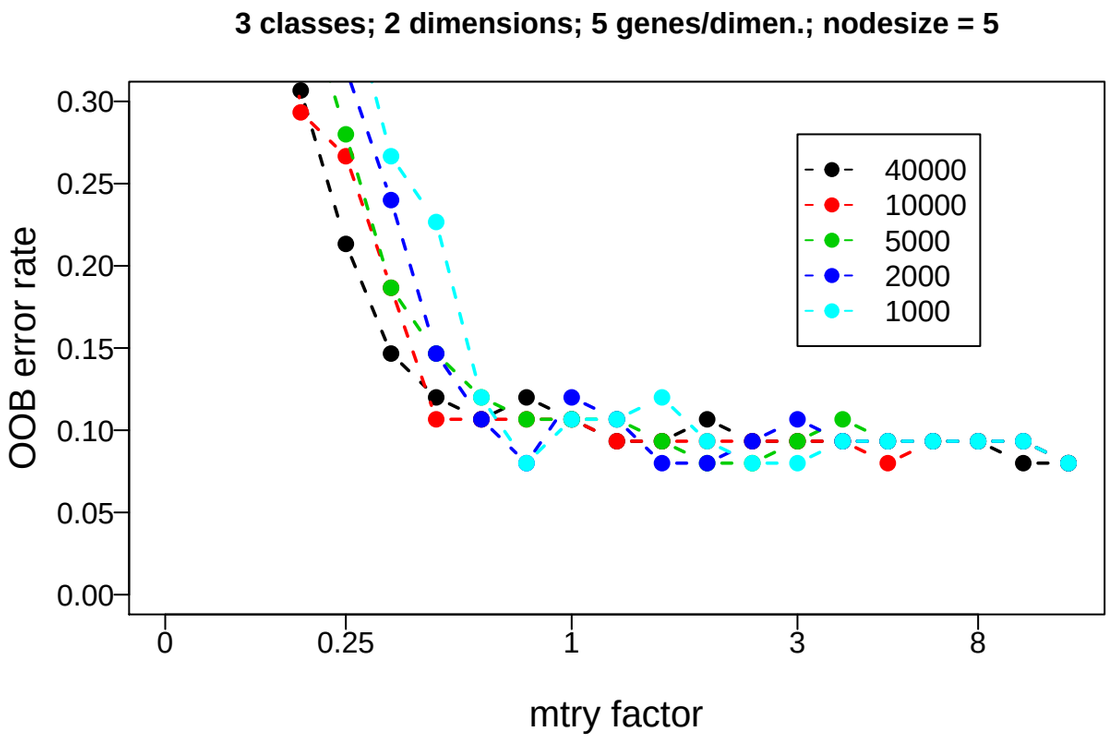

3 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

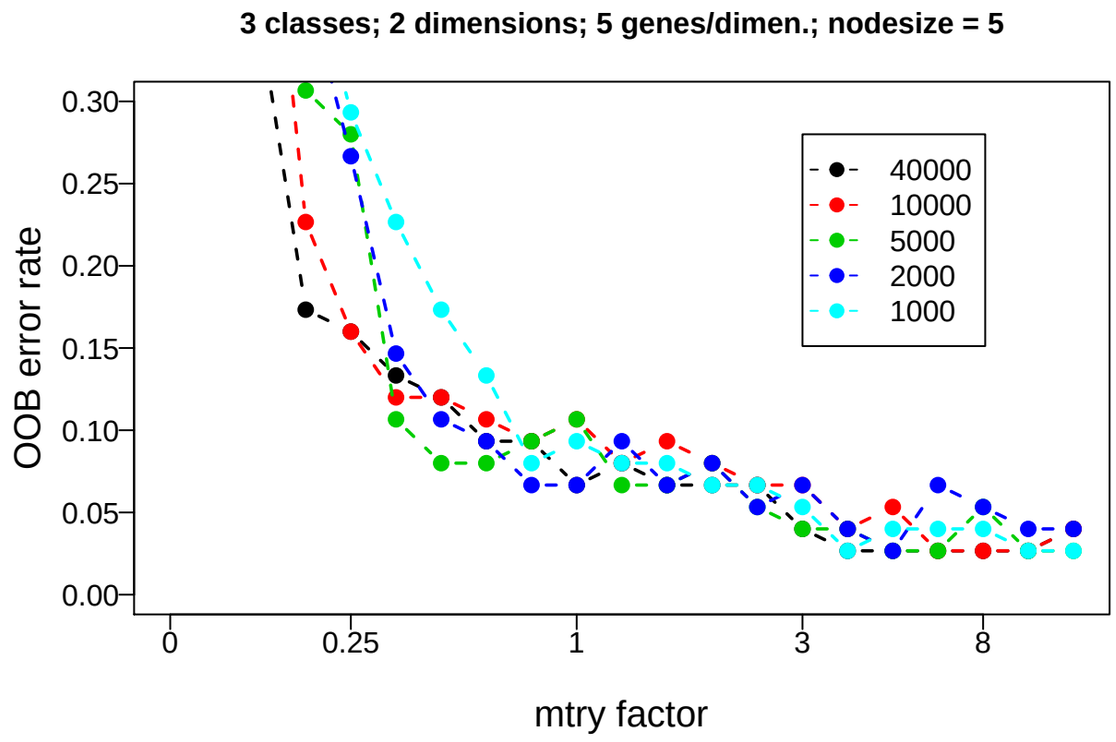

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

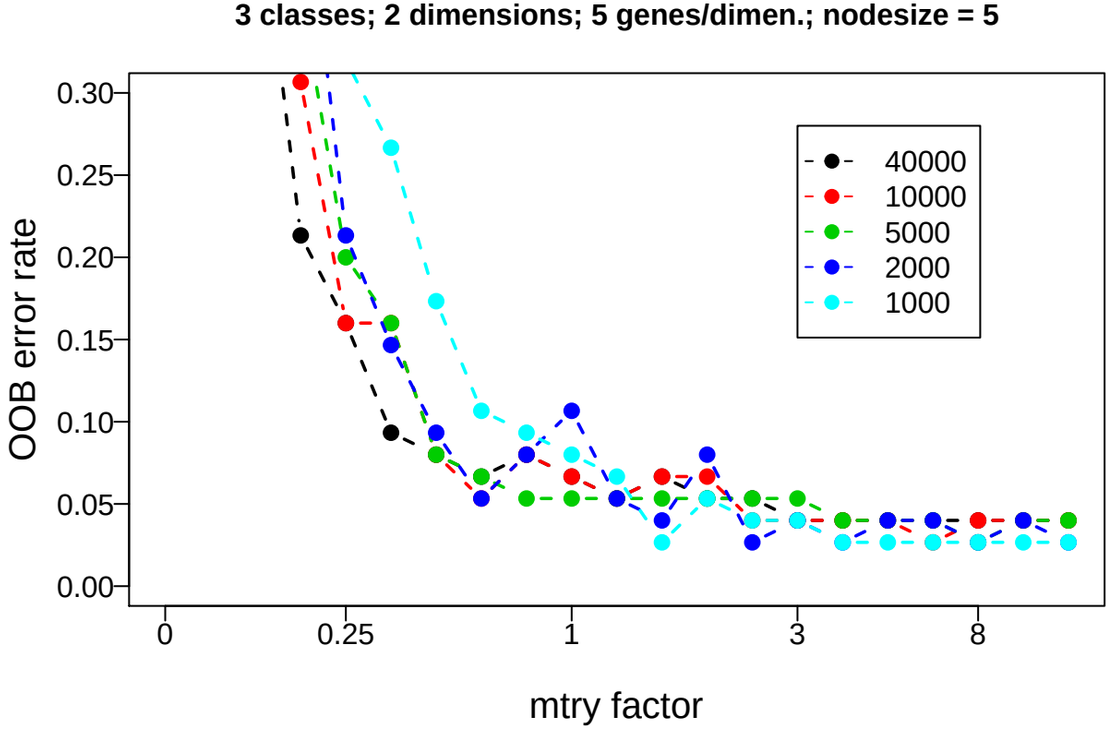

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

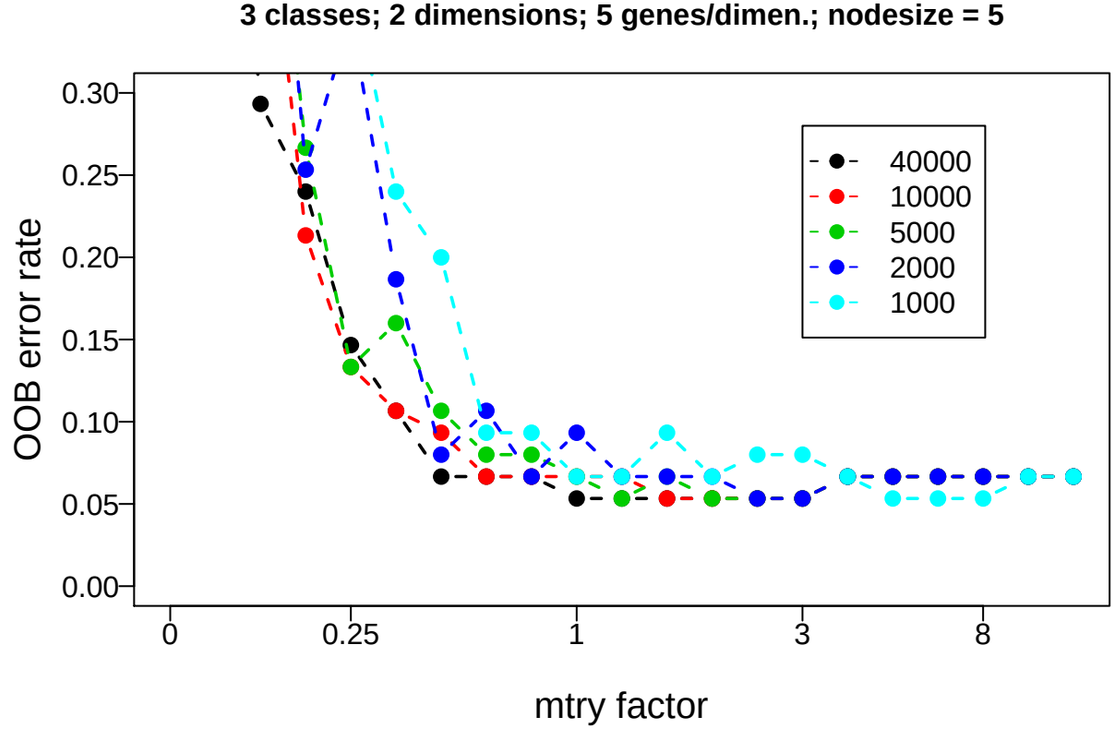

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

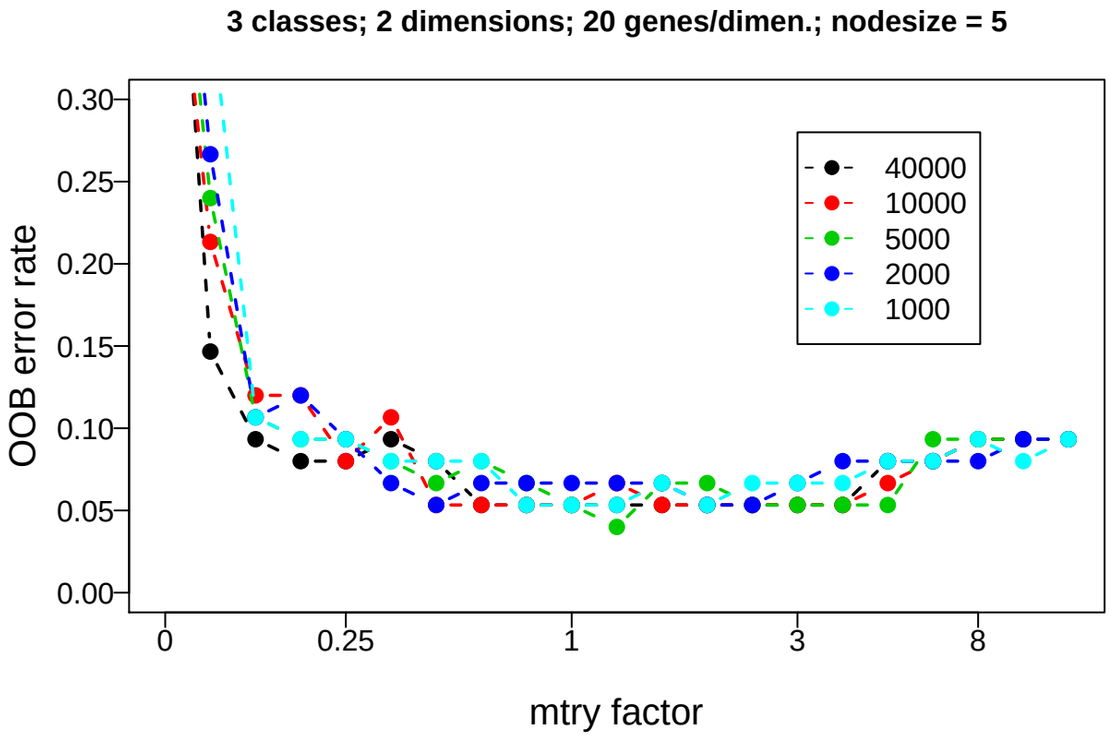

3 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

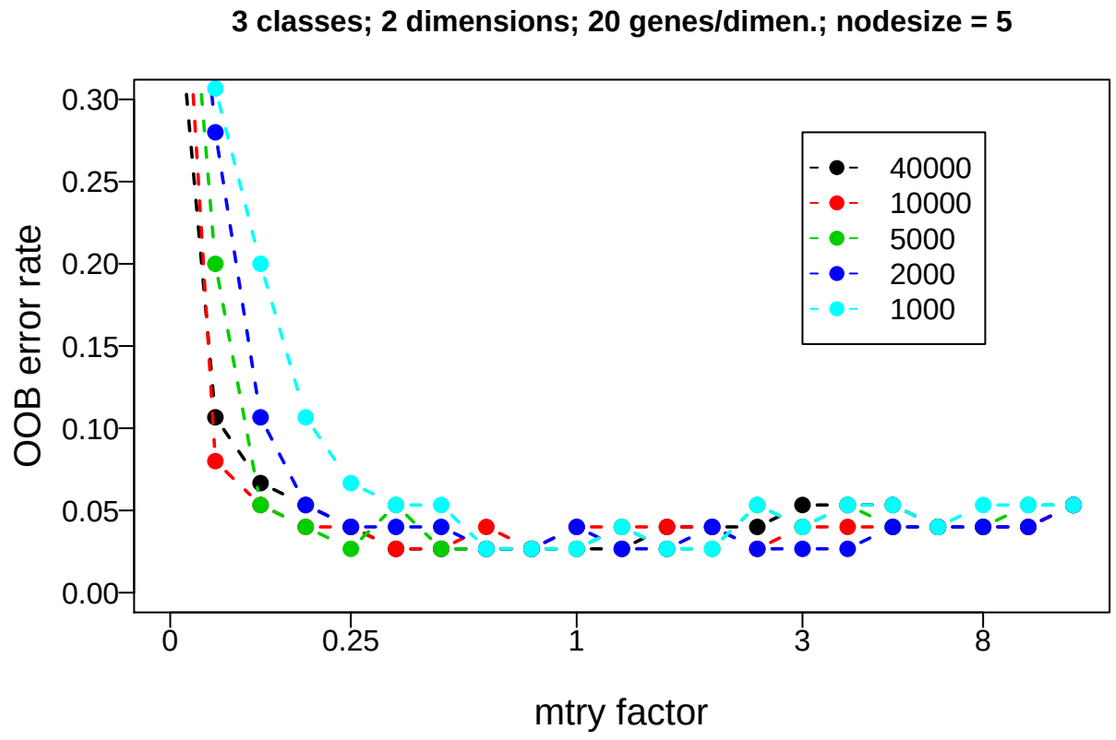

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

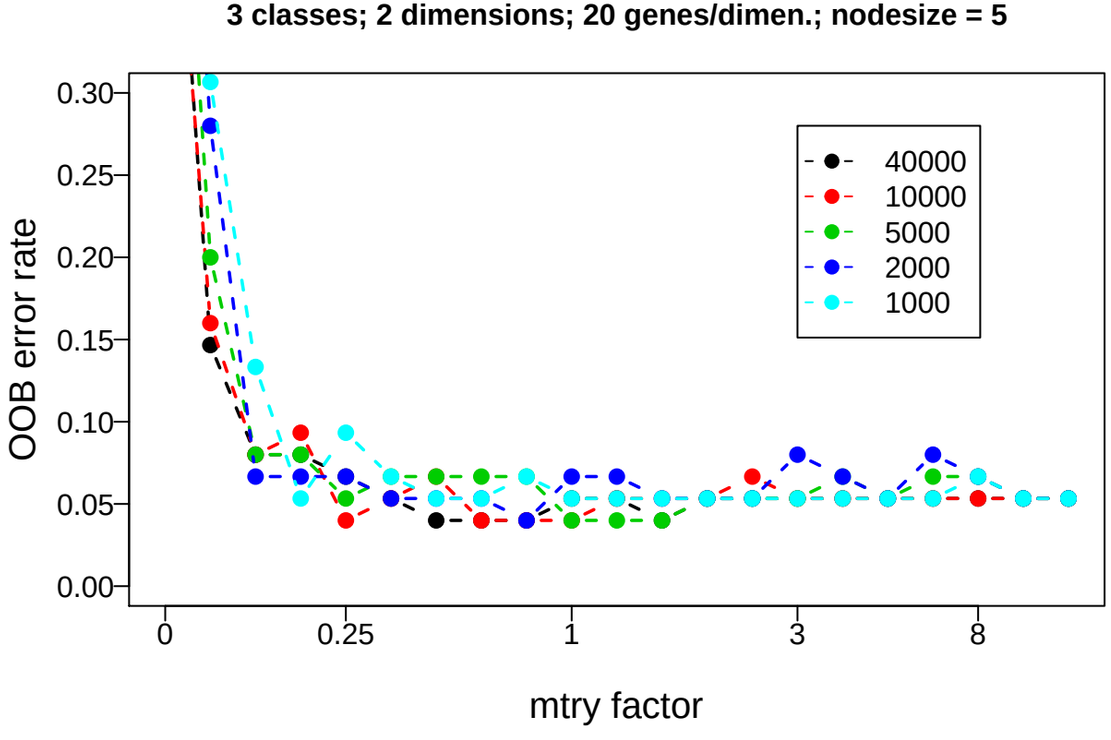

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

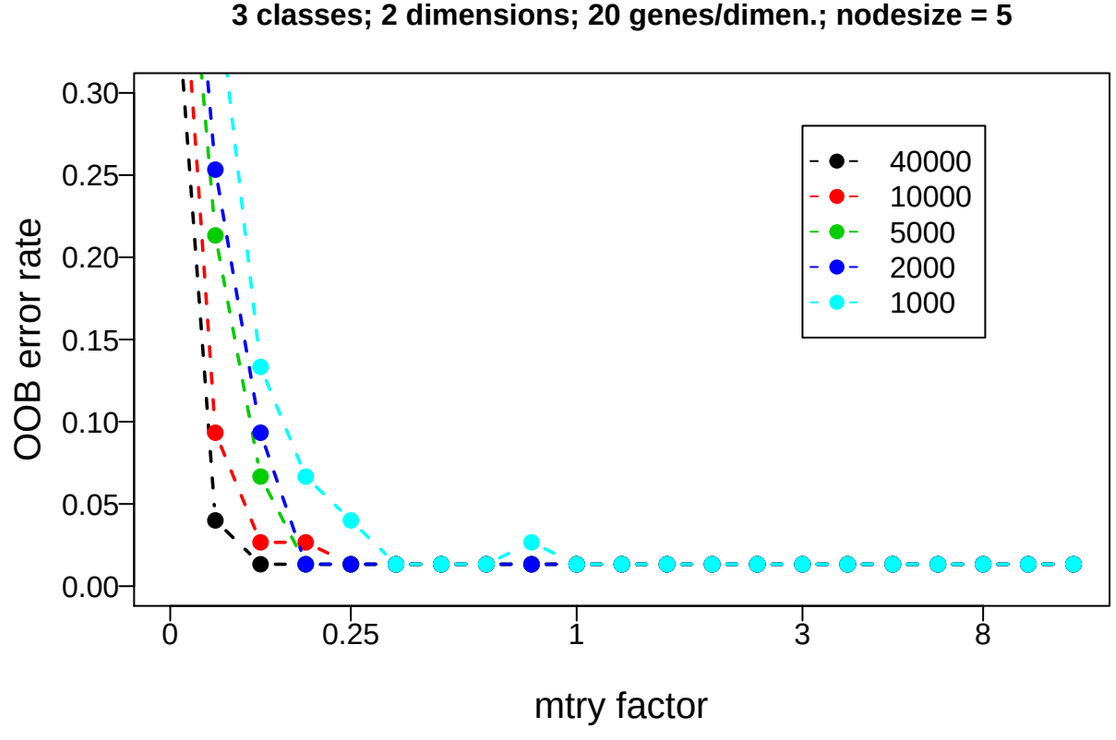

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

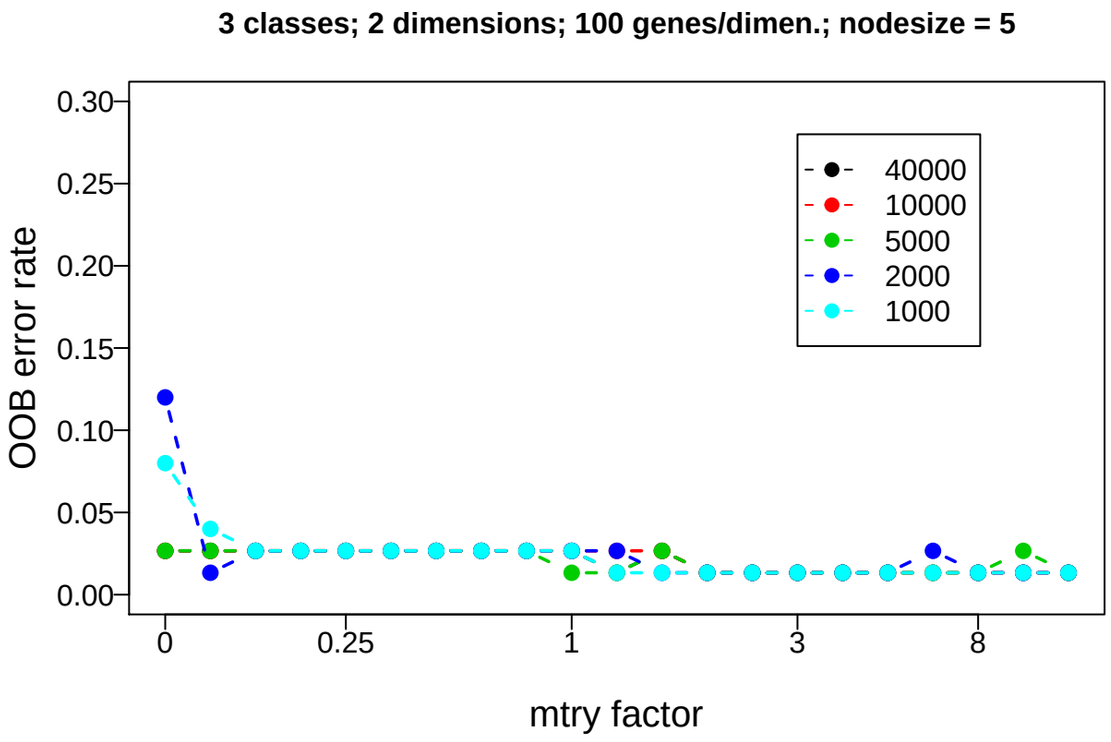

3 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

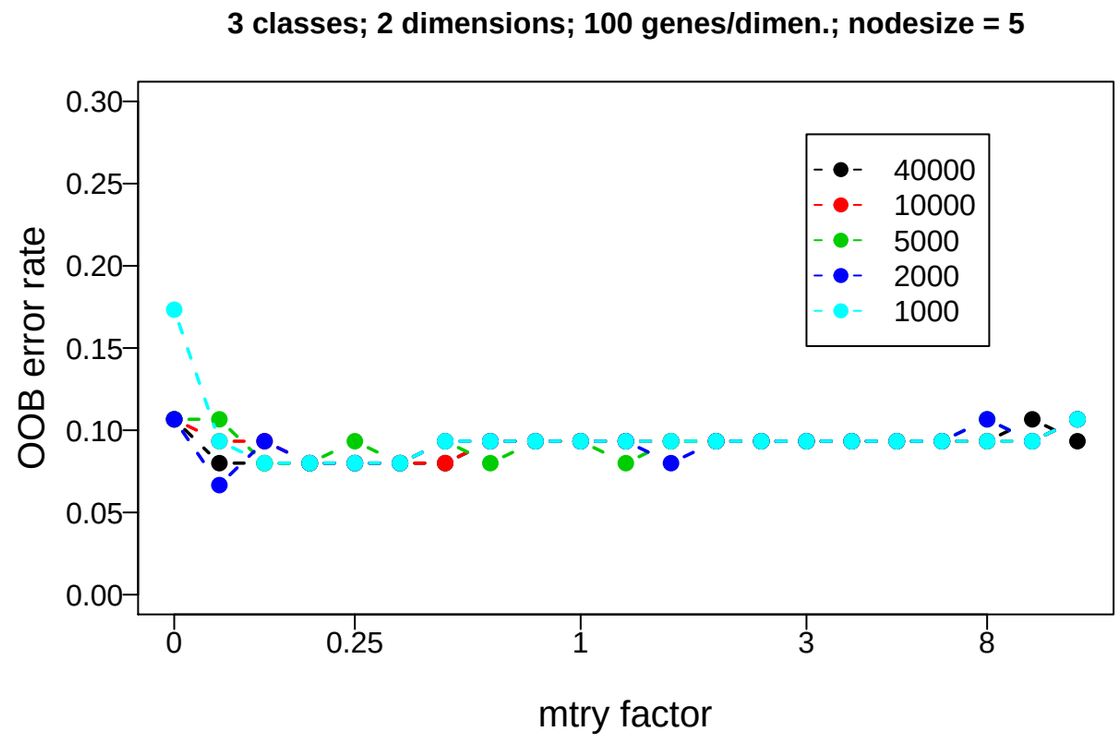

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

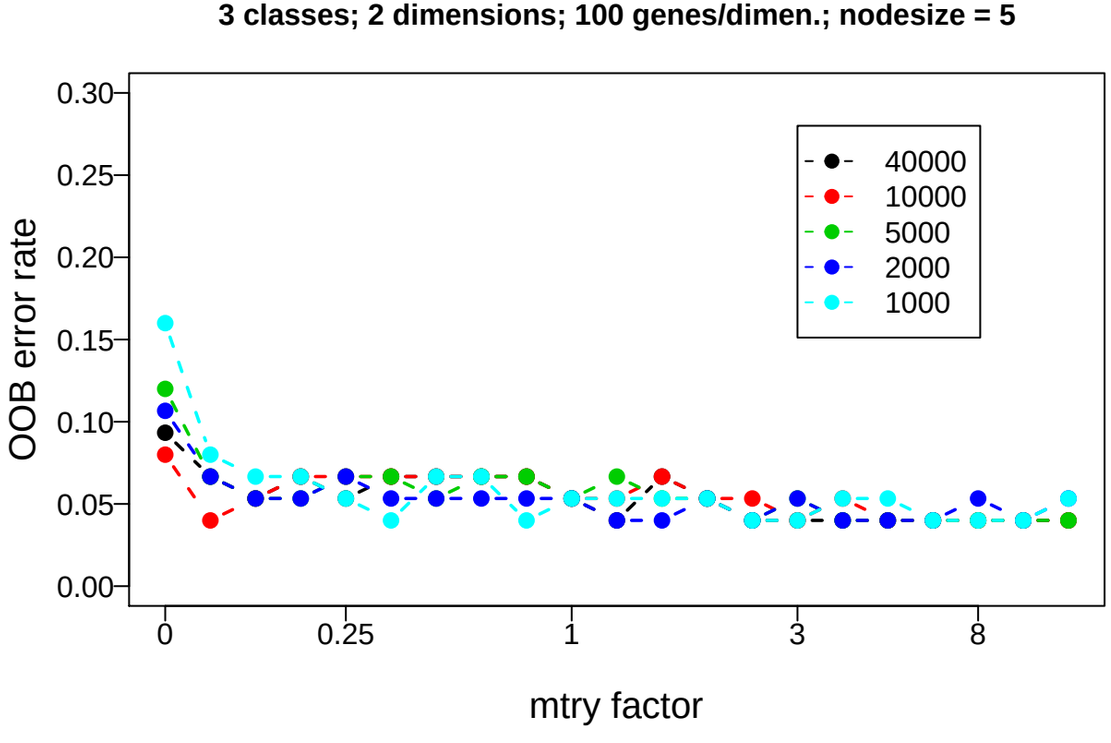

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

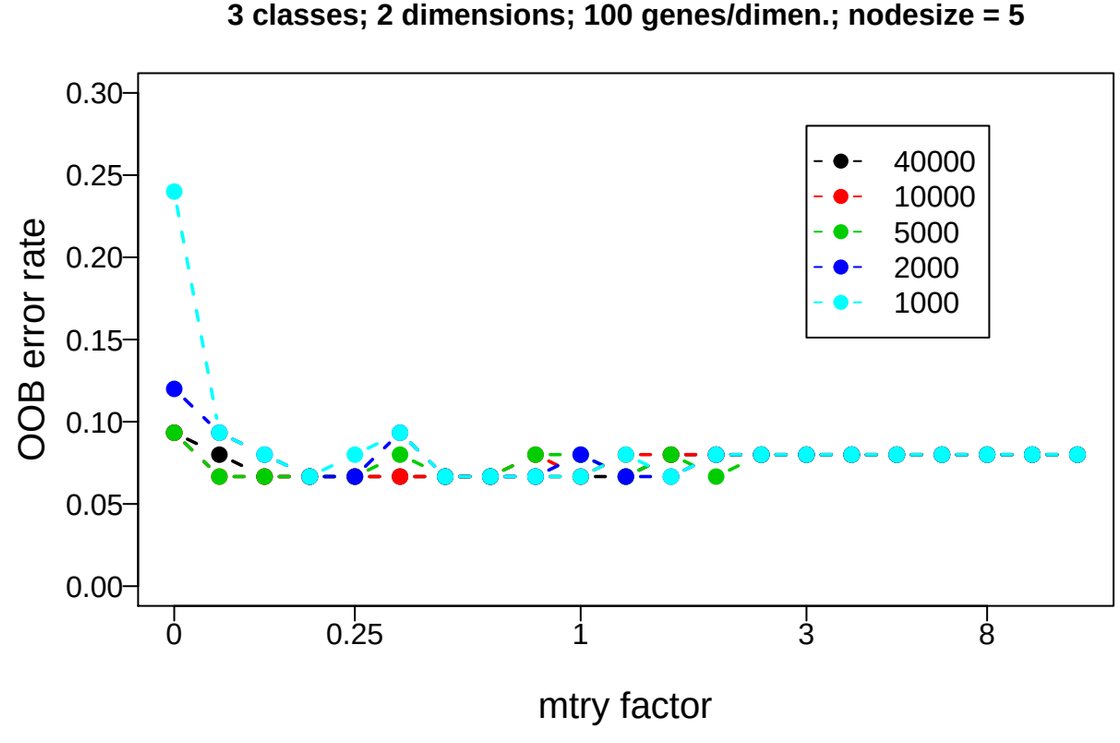

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

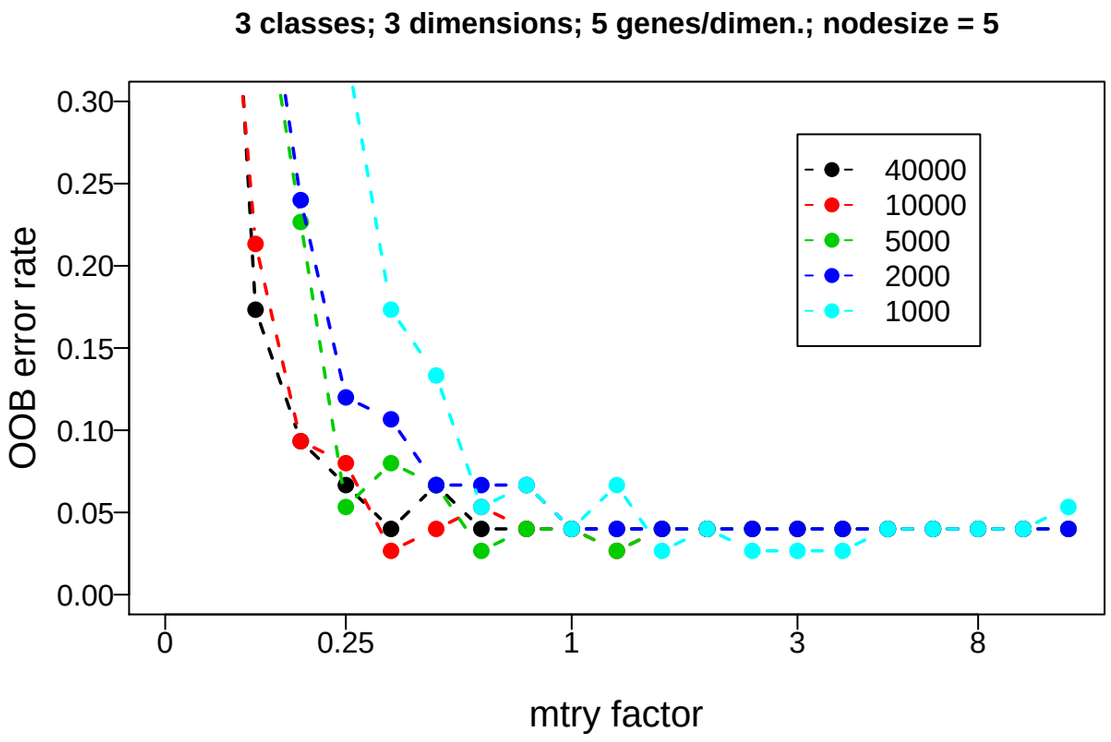

3 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

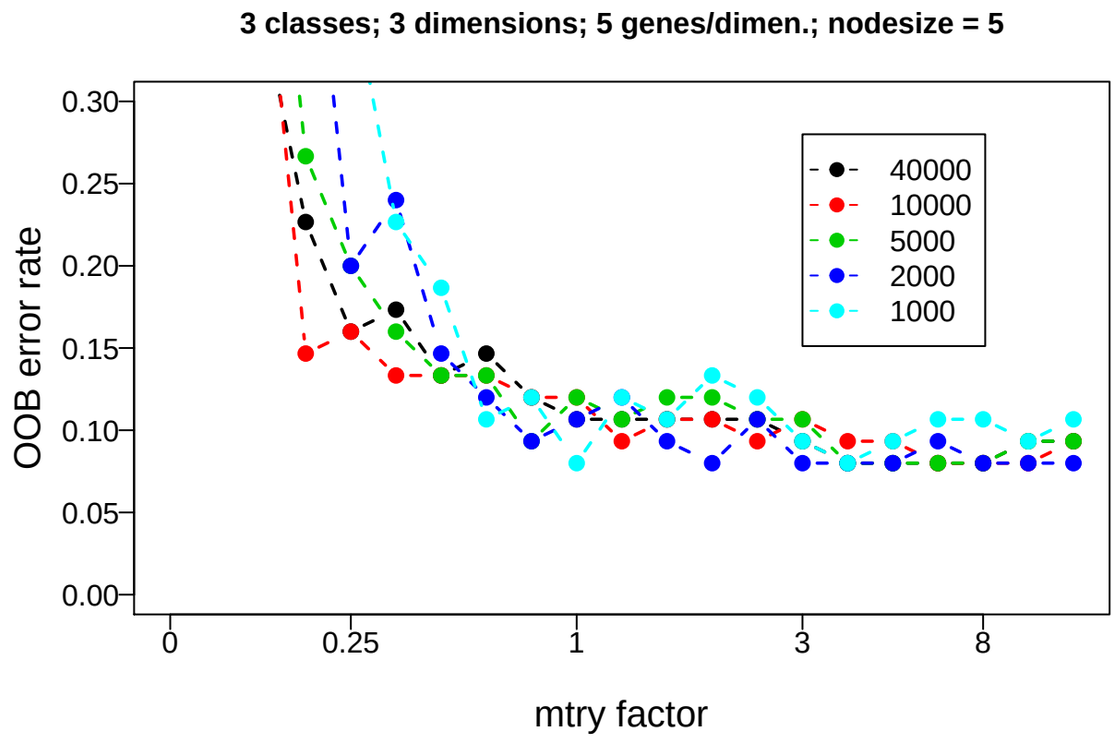

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

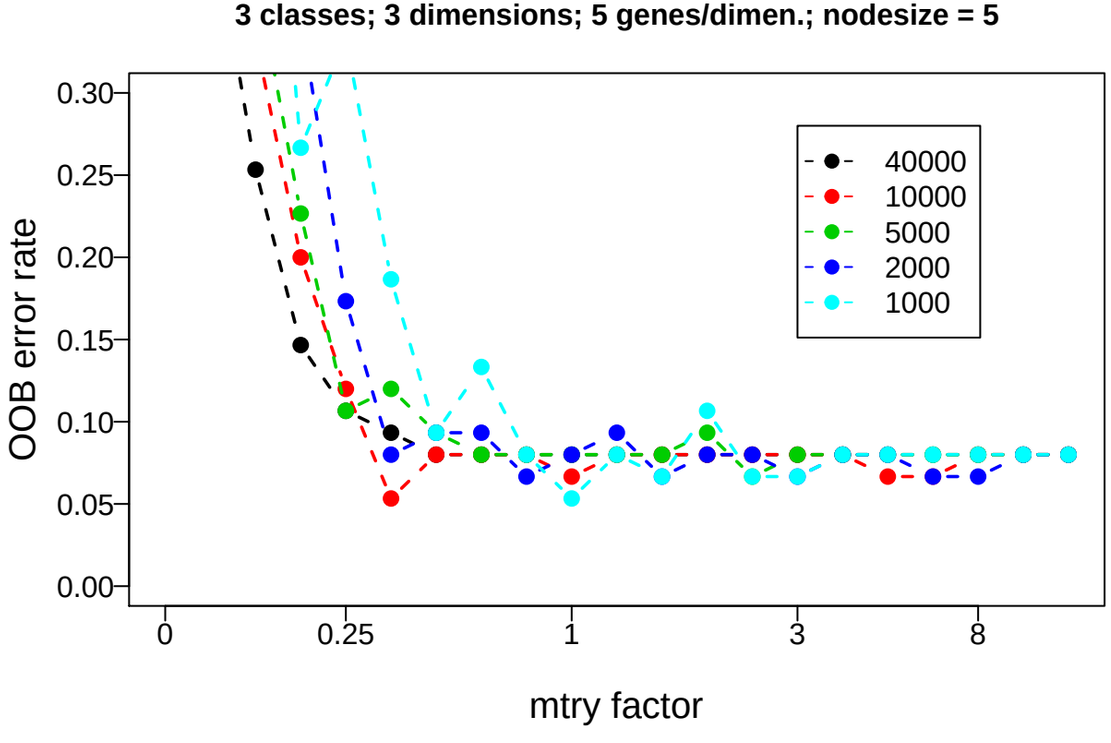

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

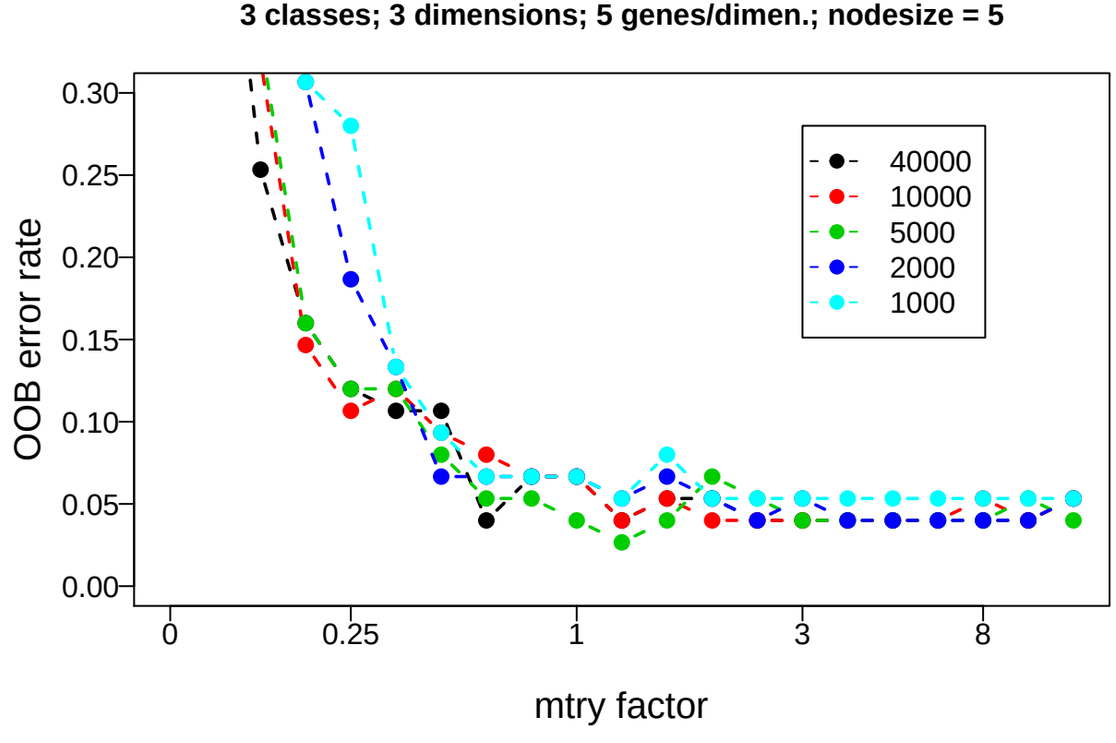

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

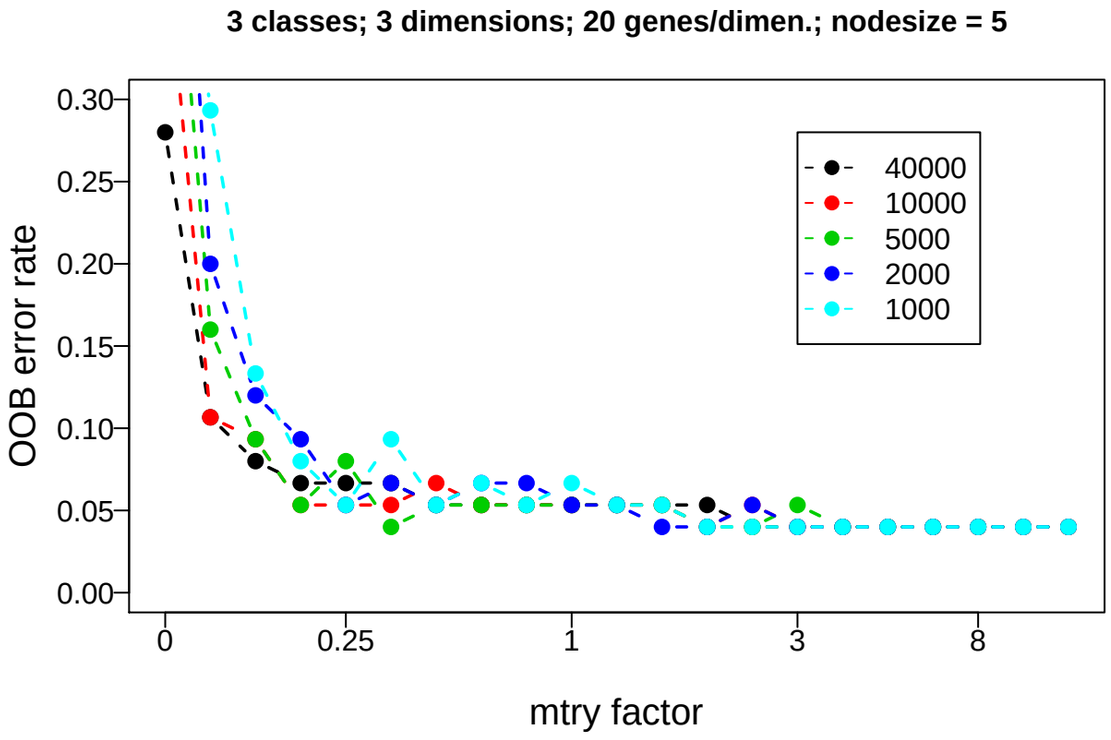

3 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

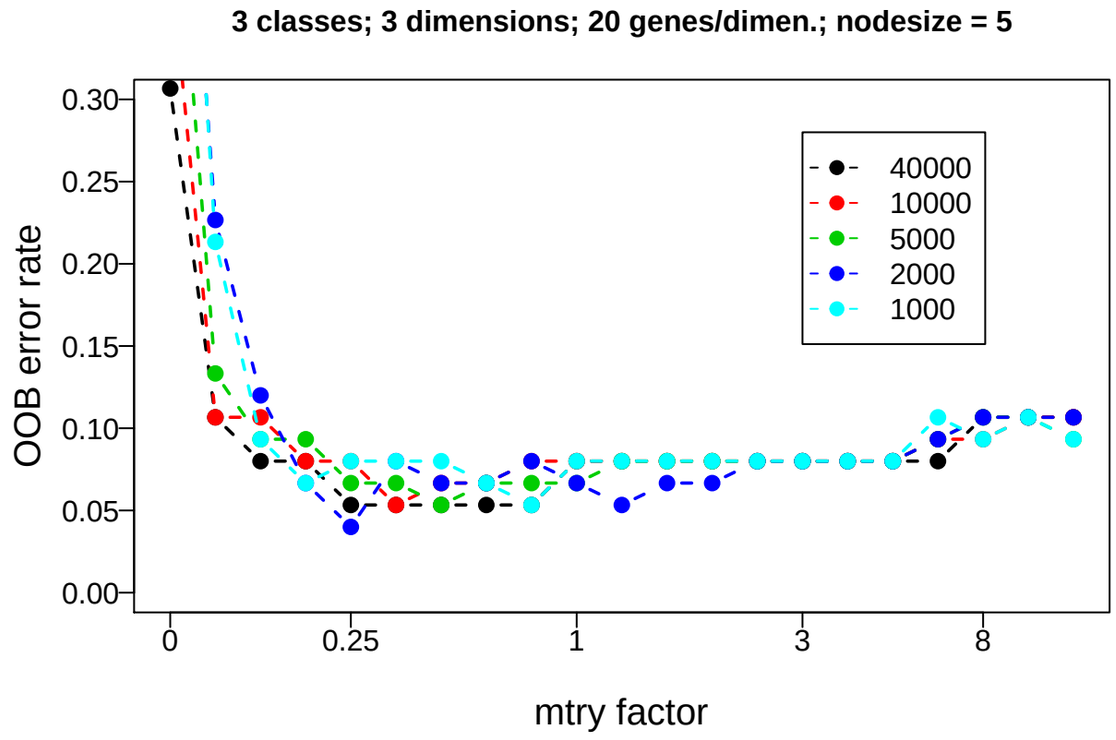

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

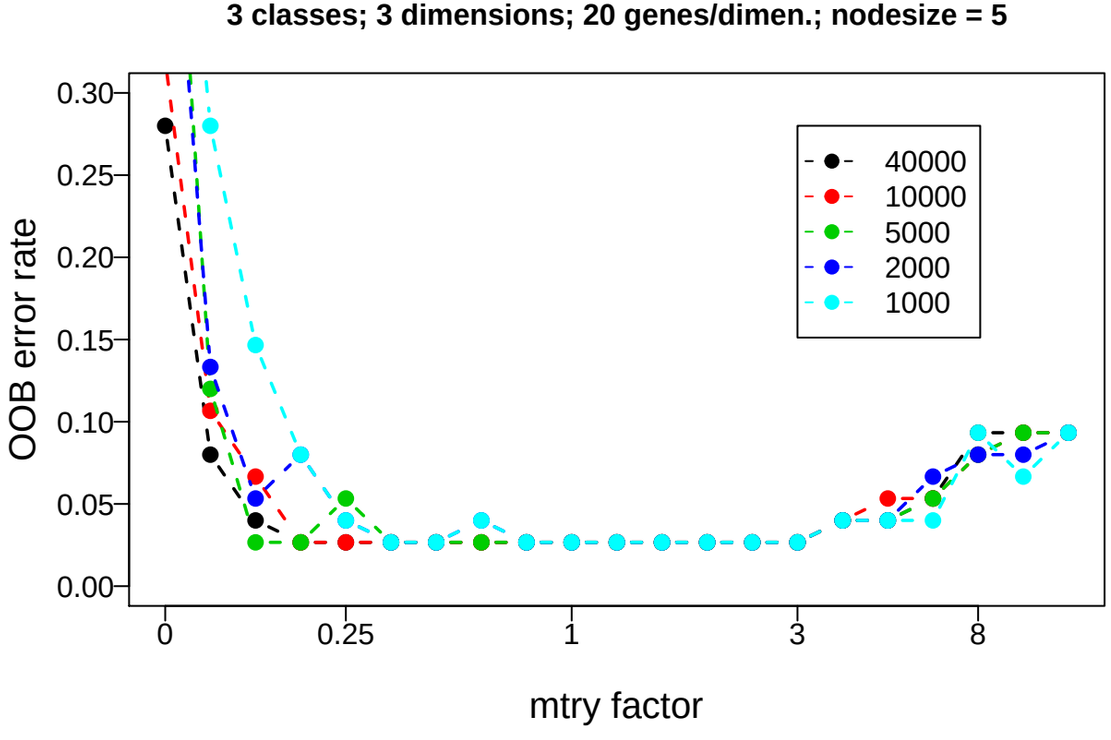

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

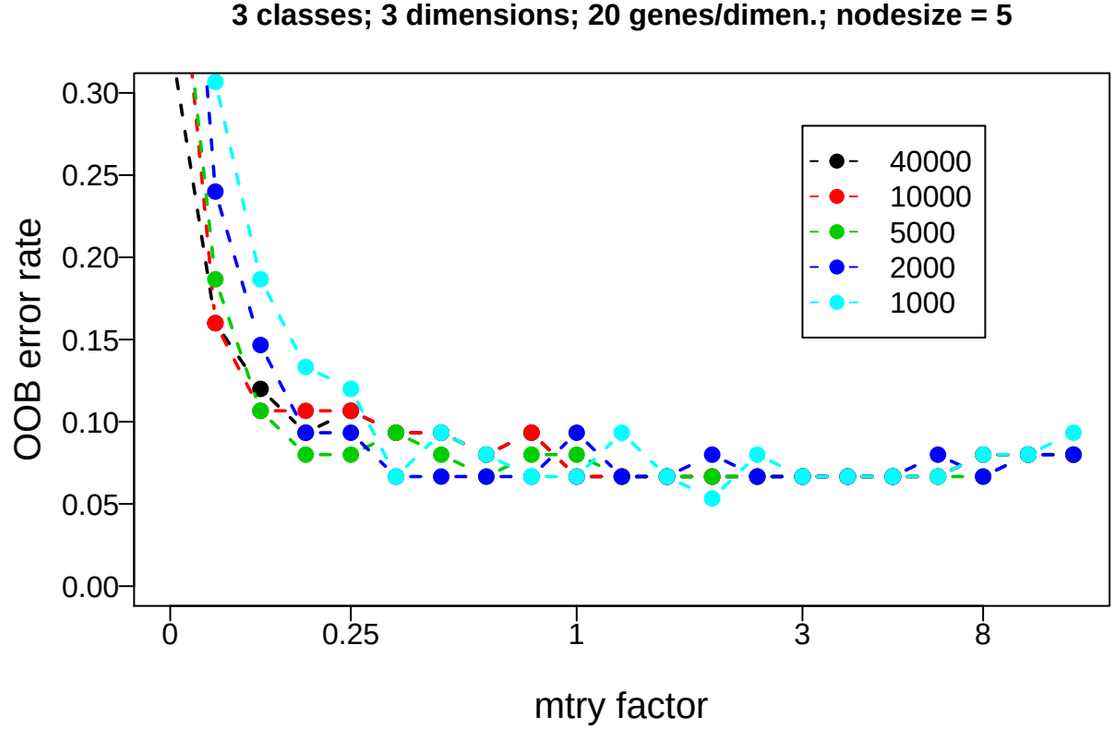

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

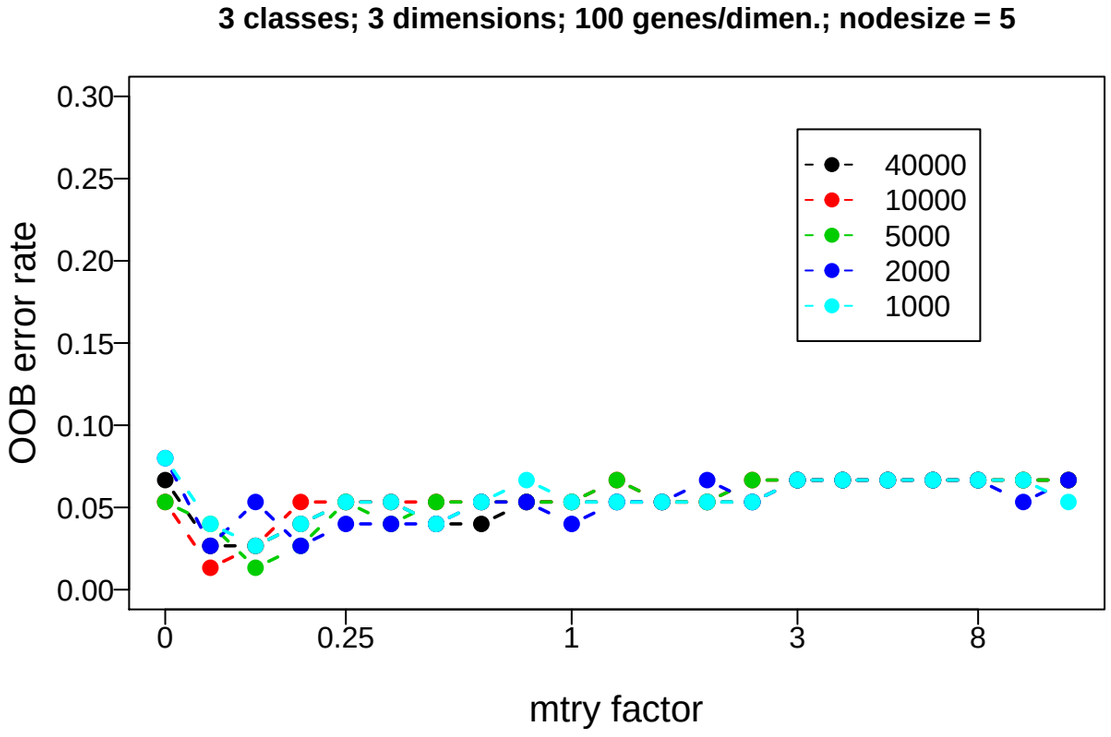

3 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

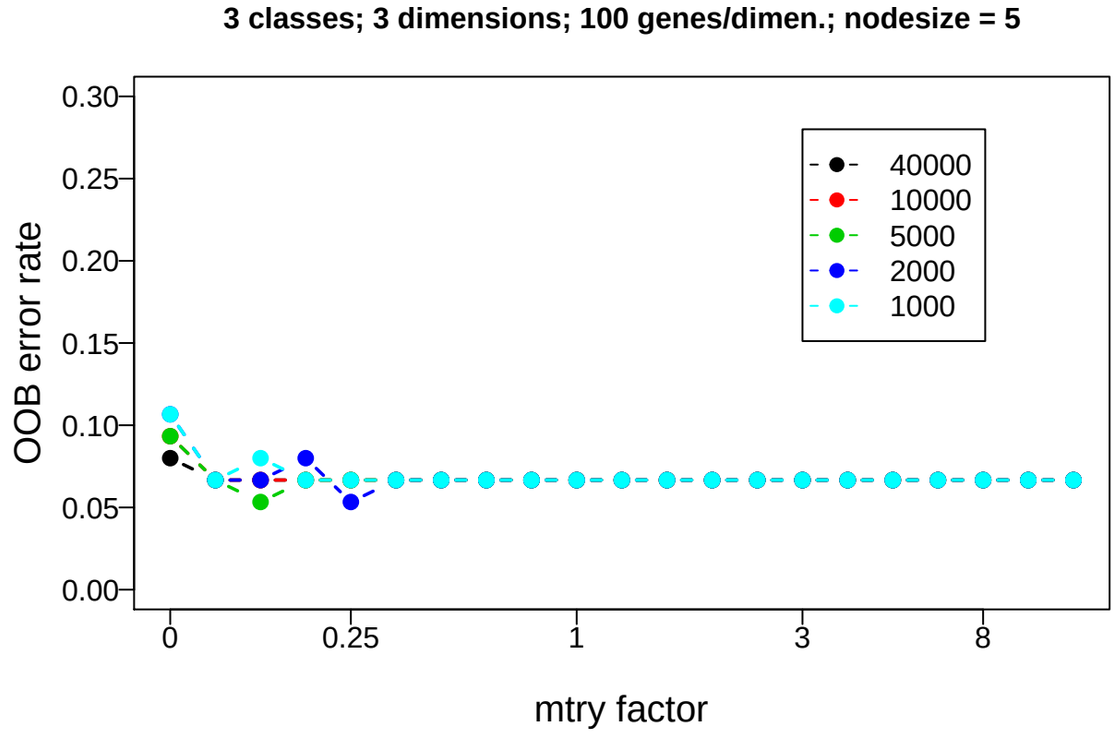

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

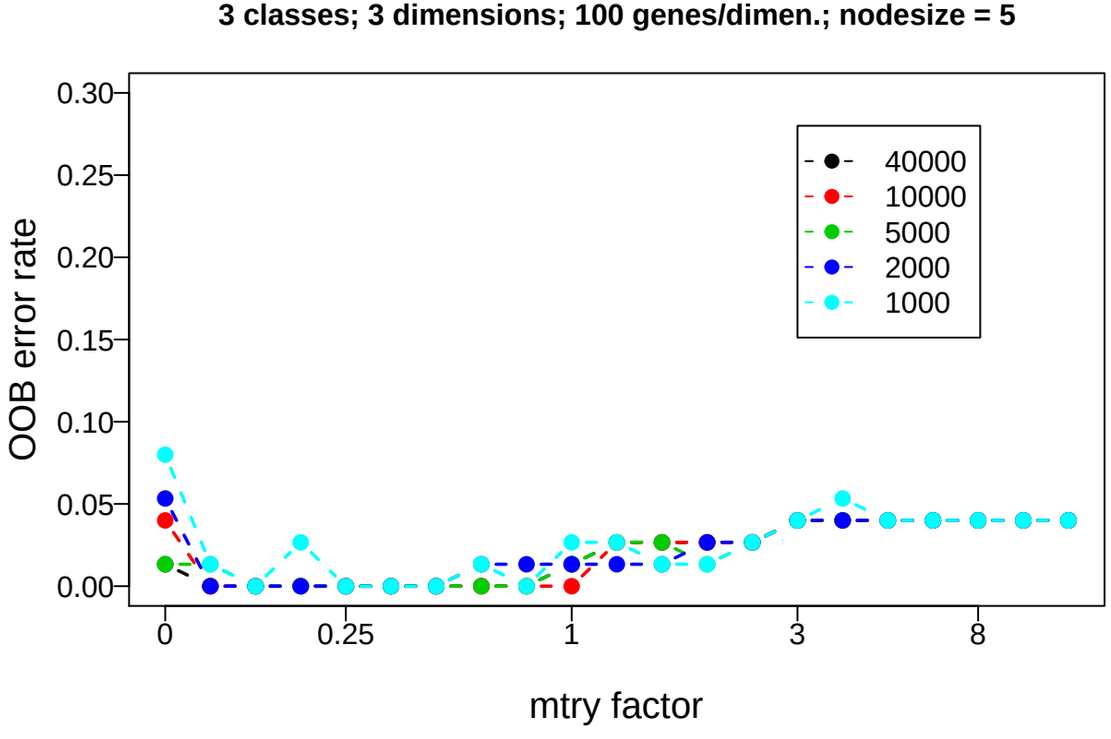

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

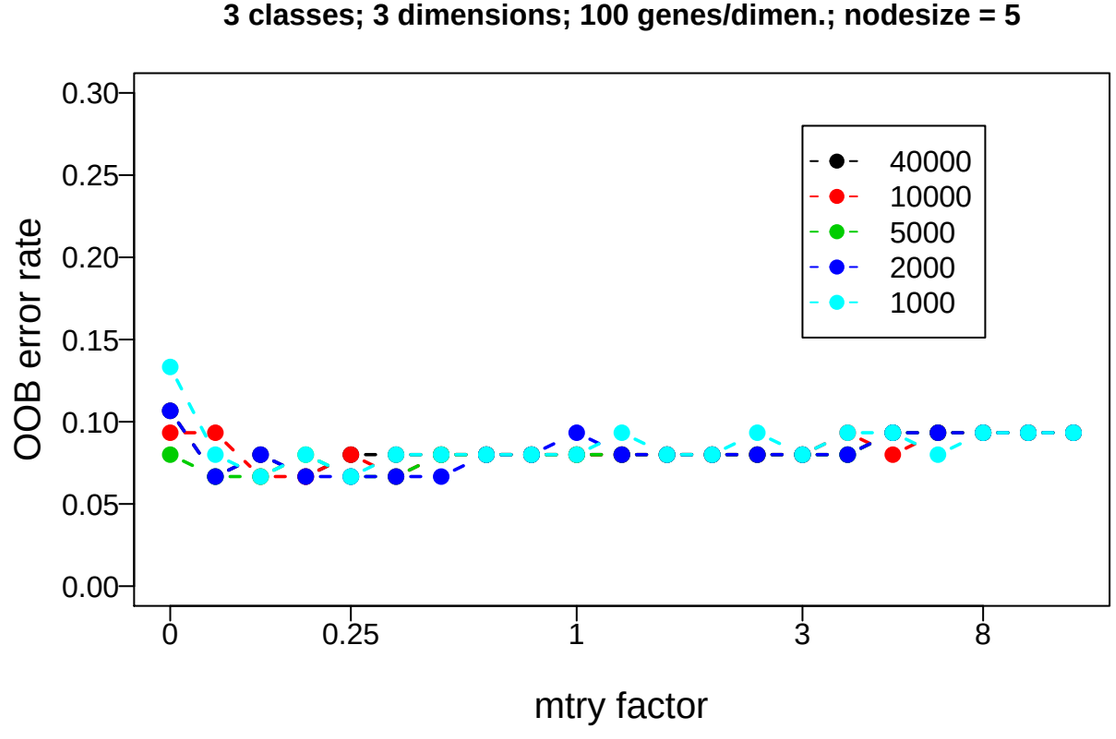

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

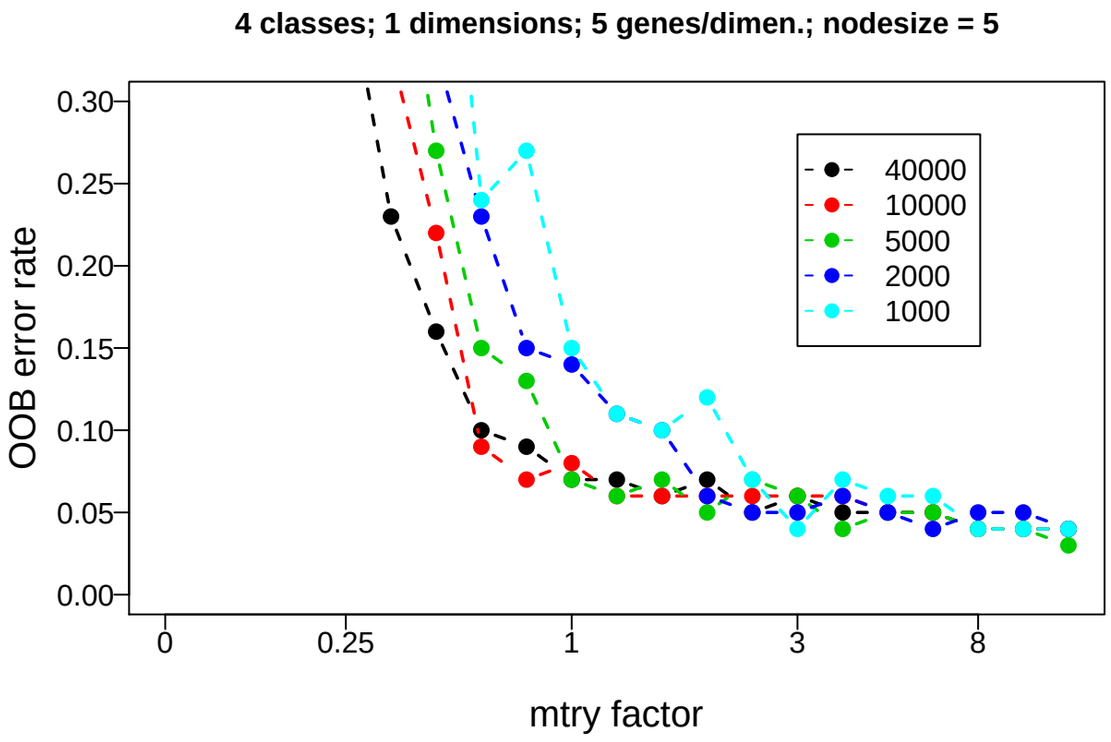

3 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

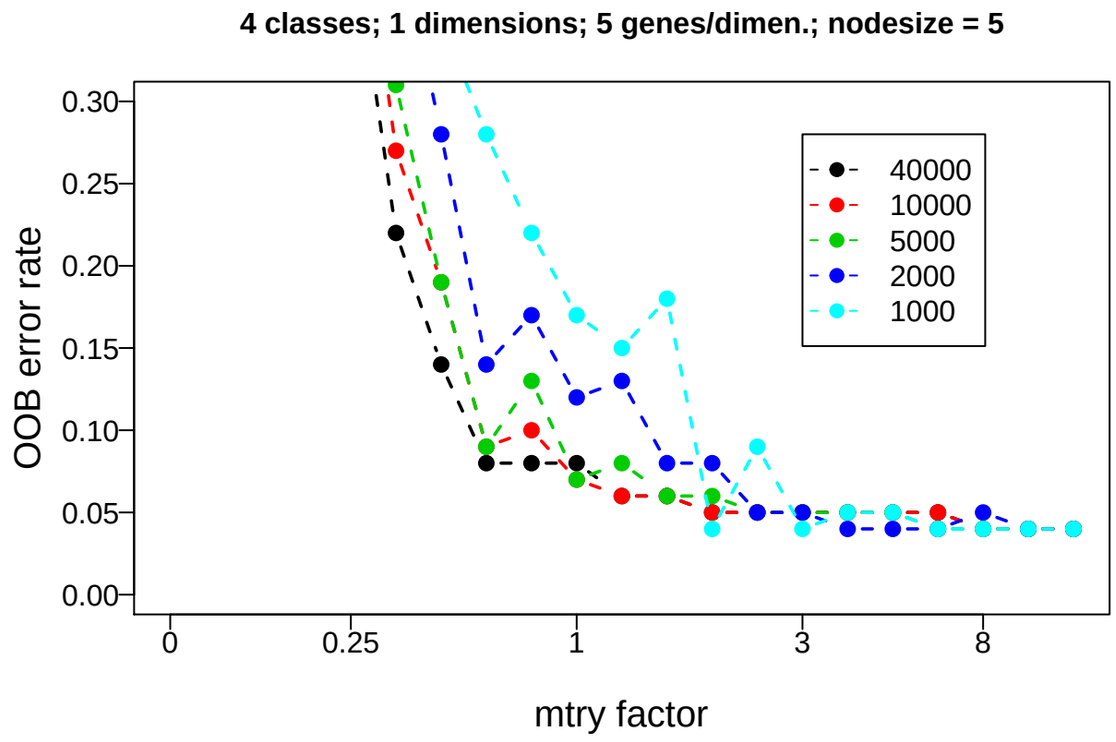

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

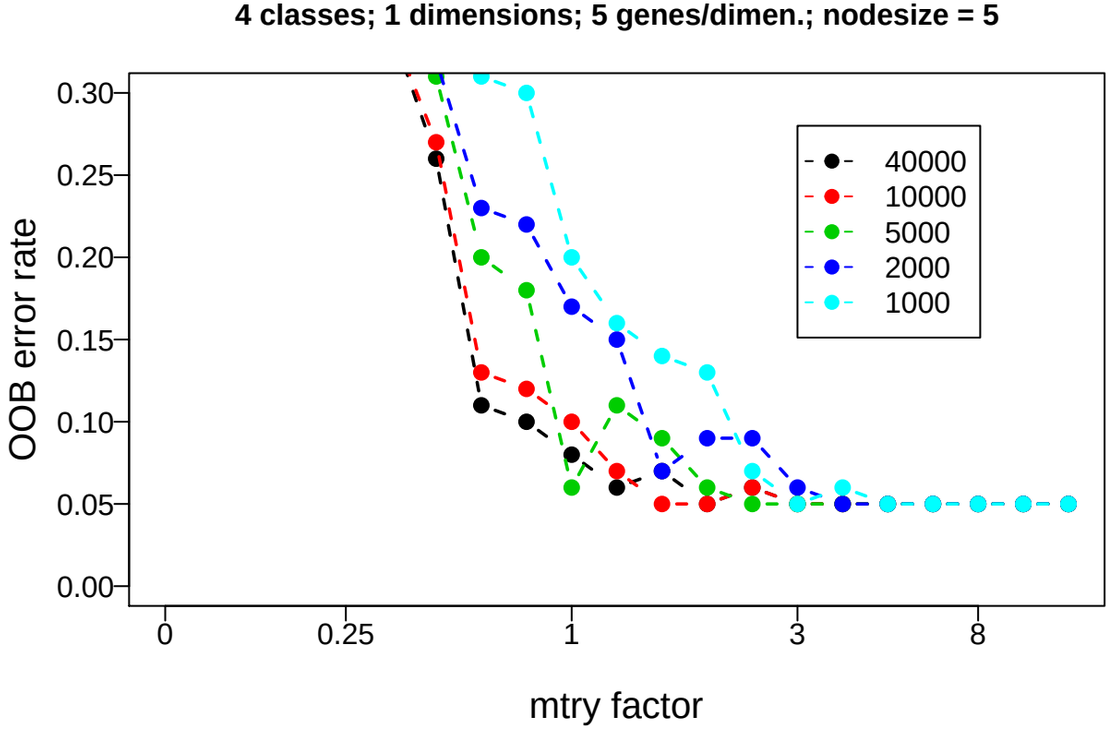

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

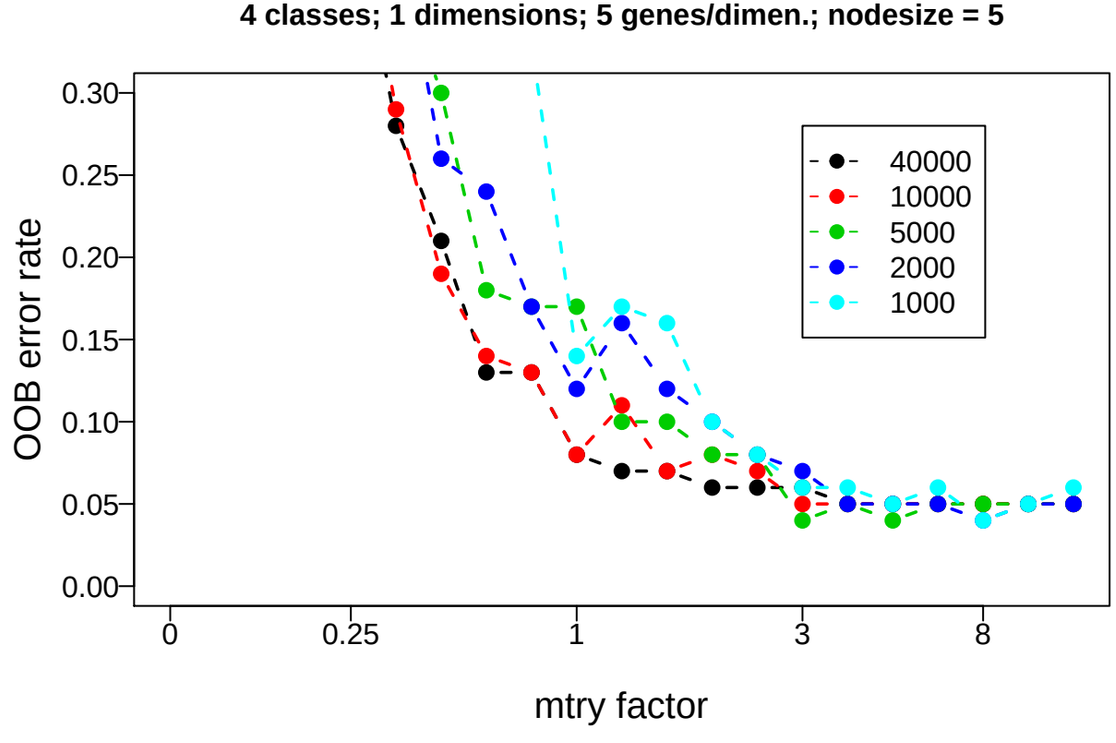

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

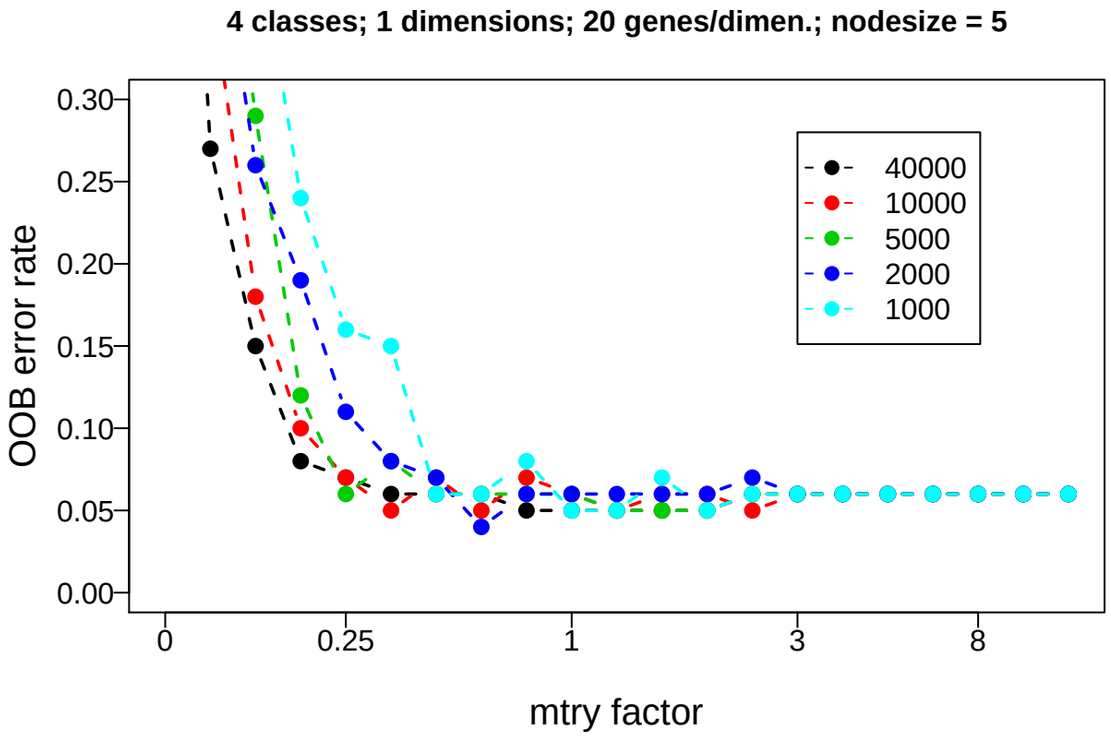

3 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

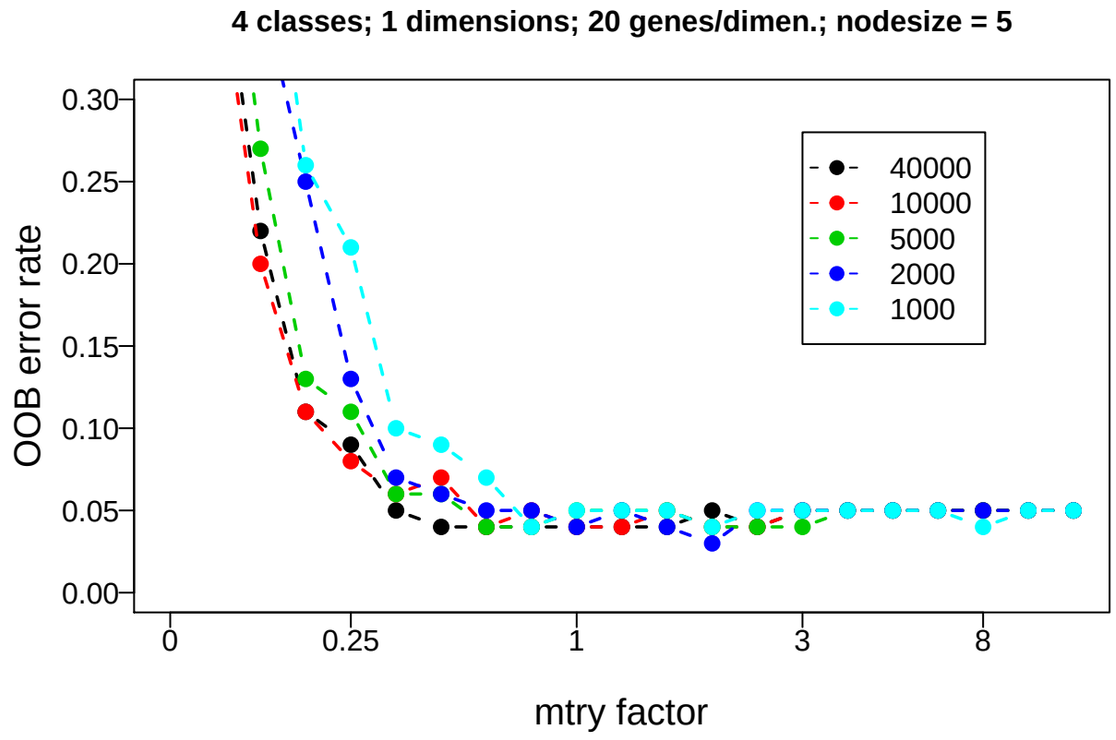

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

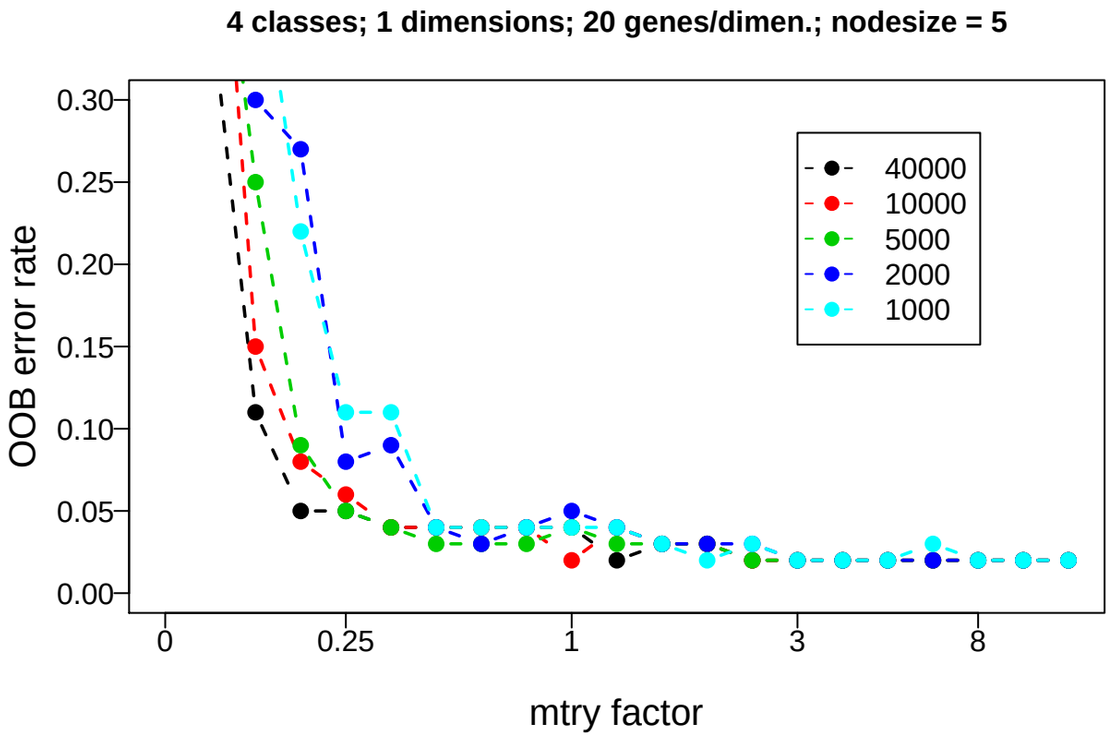

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

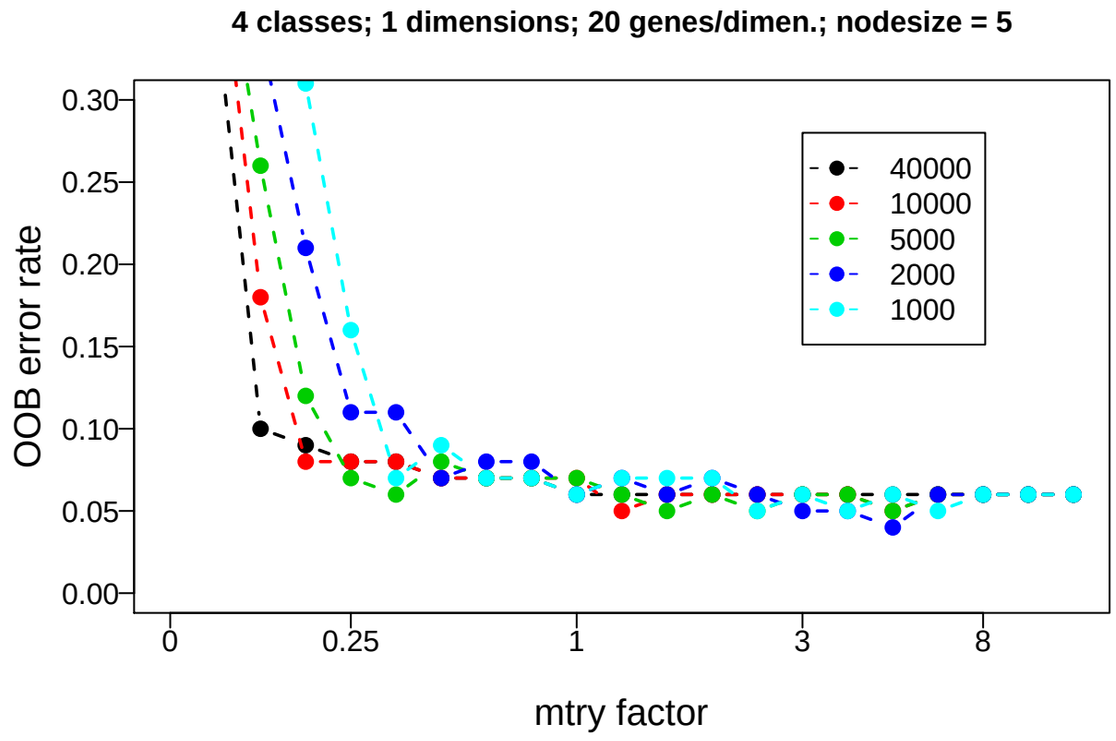

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

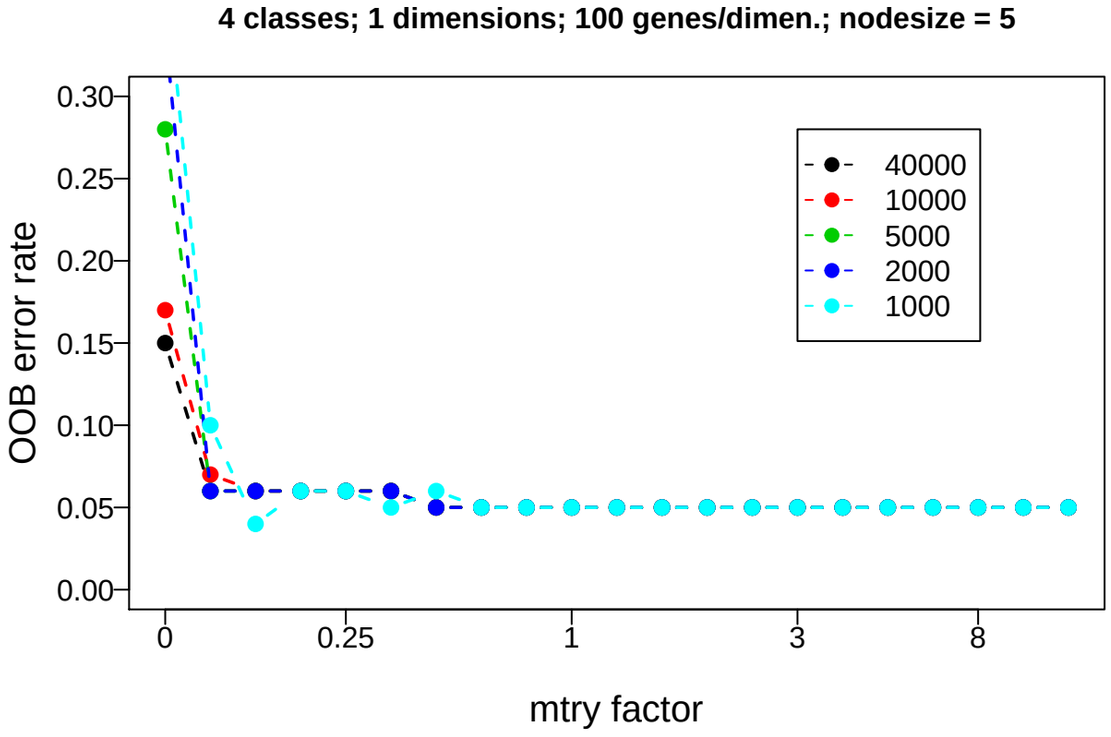

4 classes; 1 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

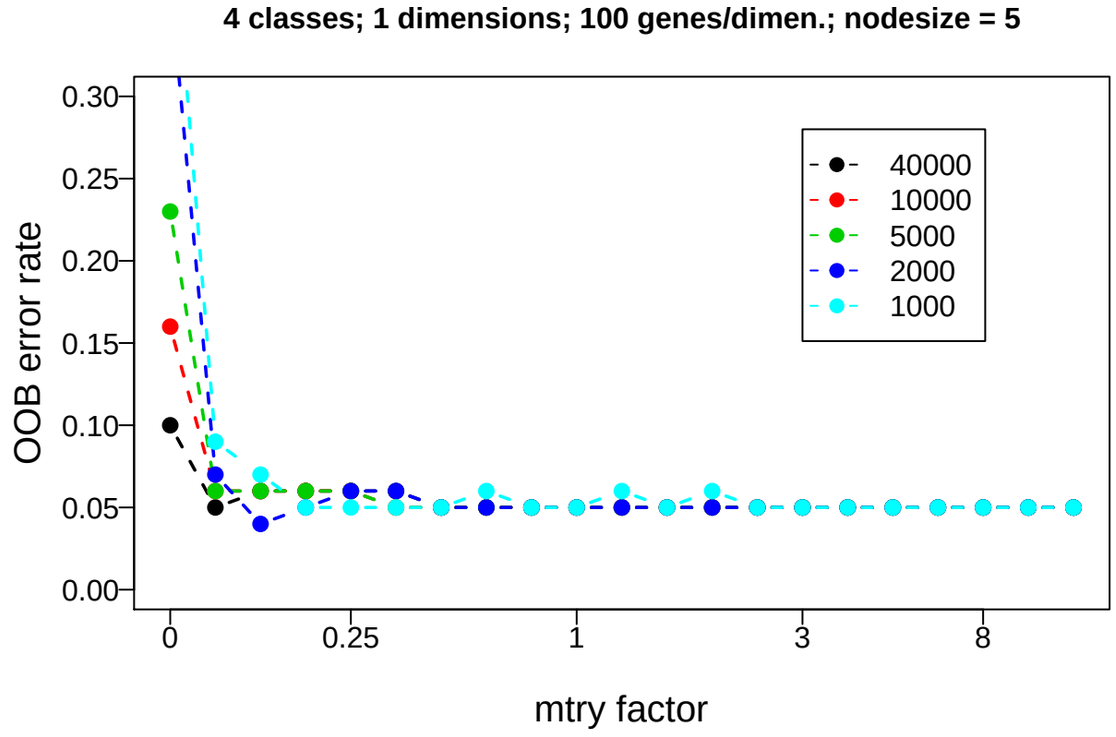

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

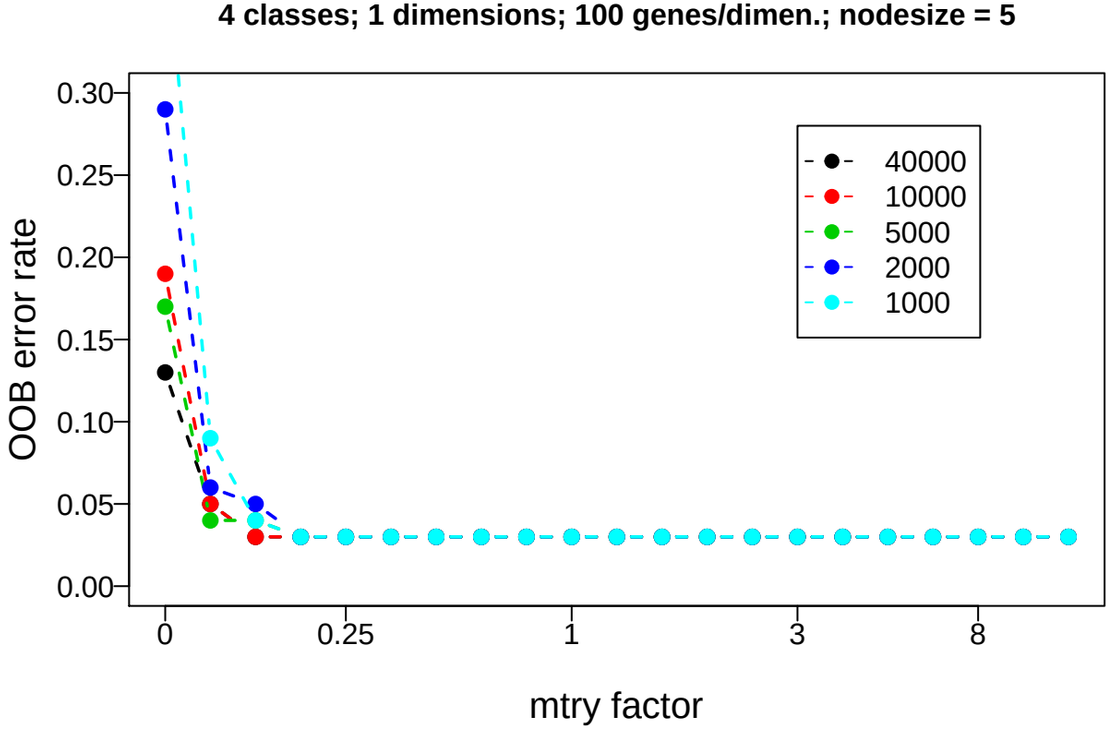

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

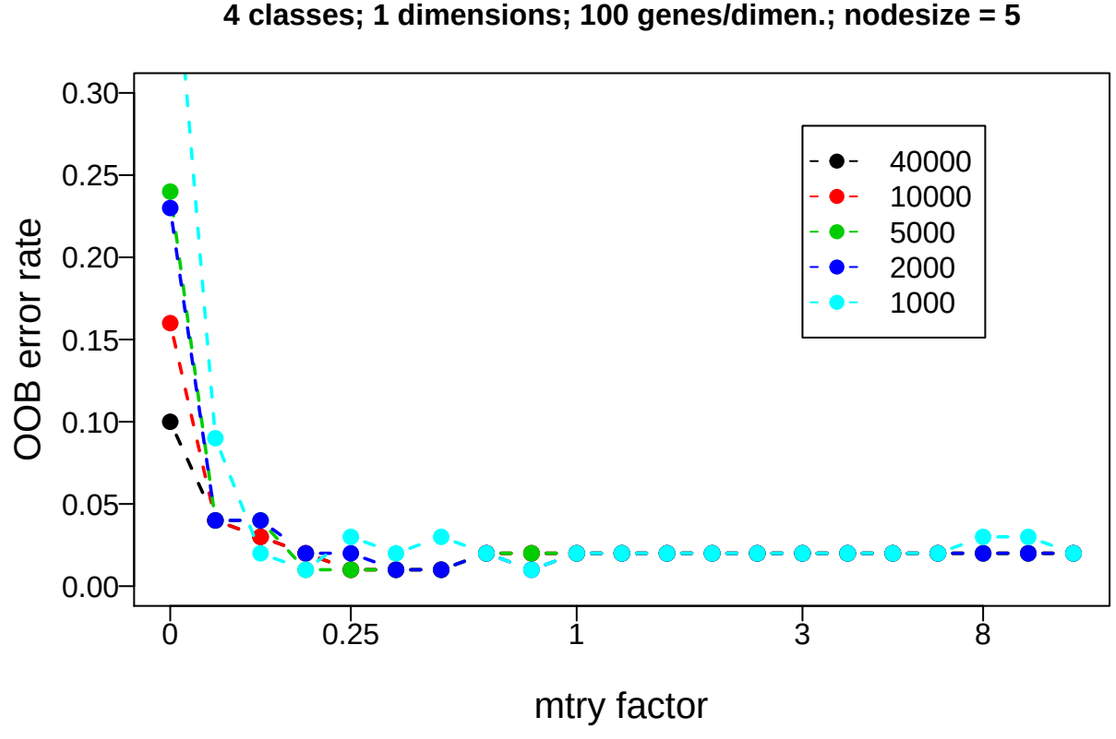

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

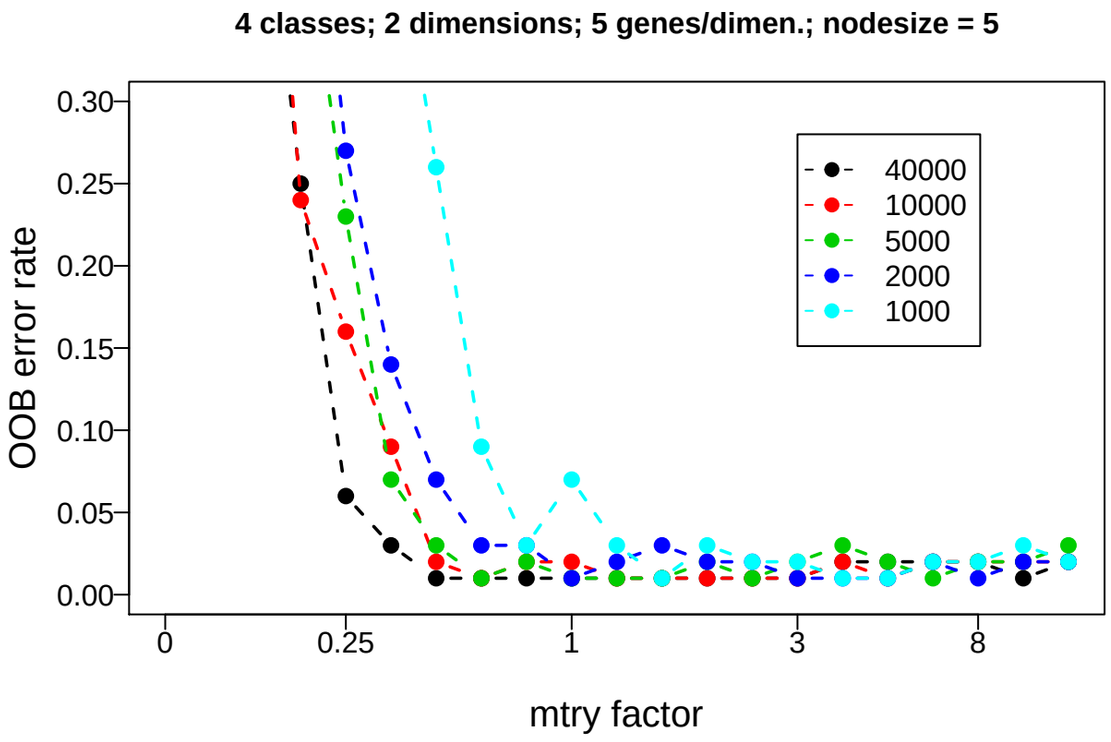

4 classes; 1 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

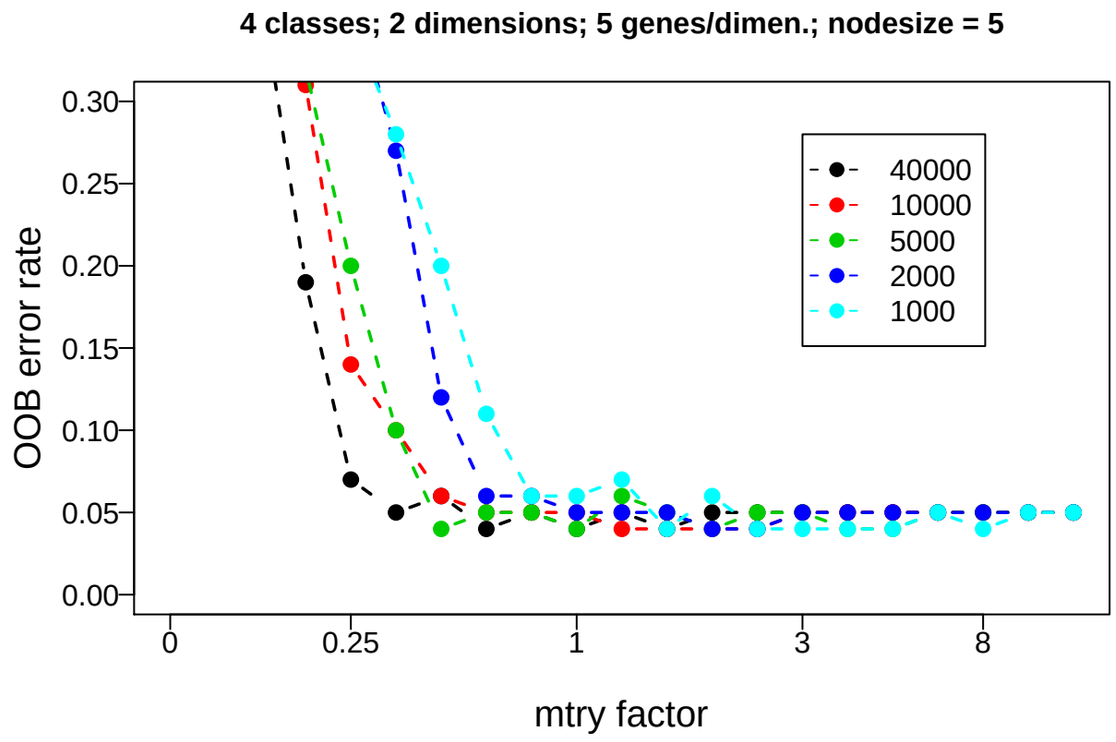

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

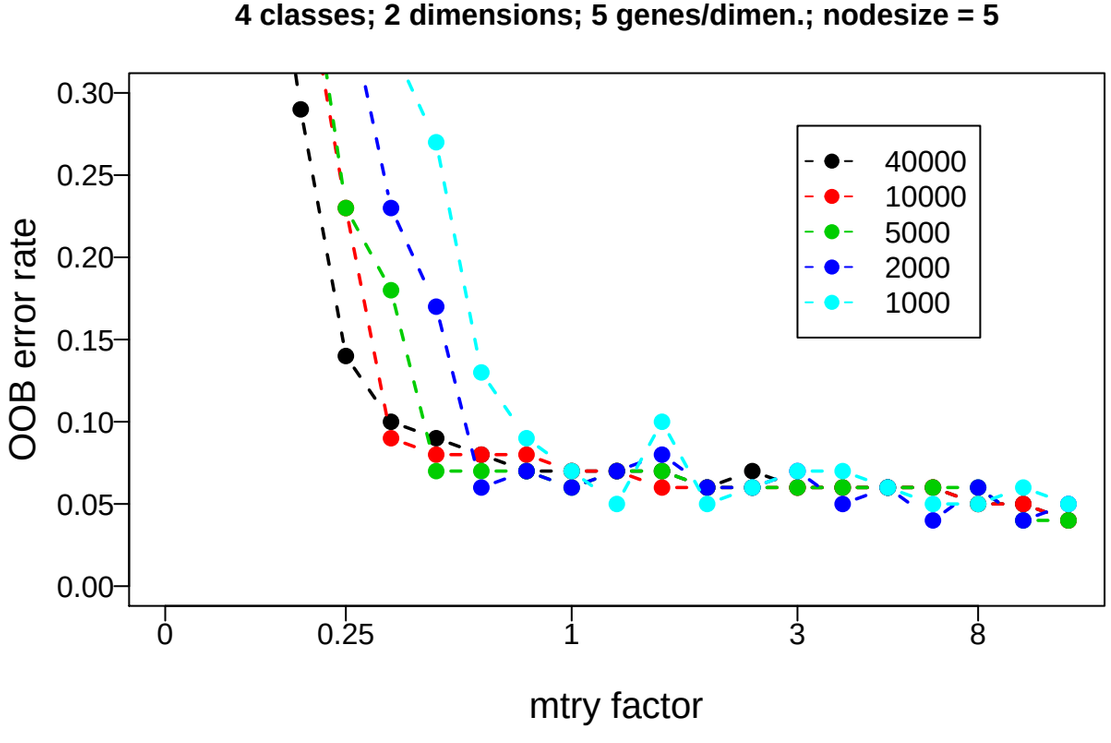

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

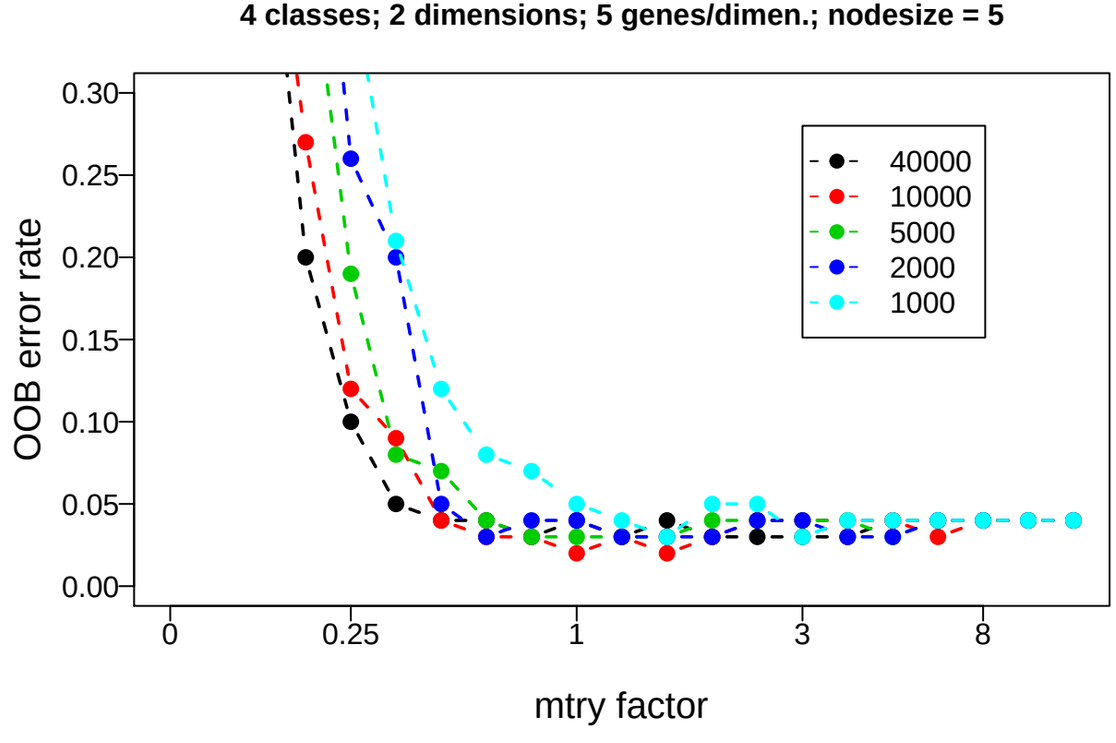

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

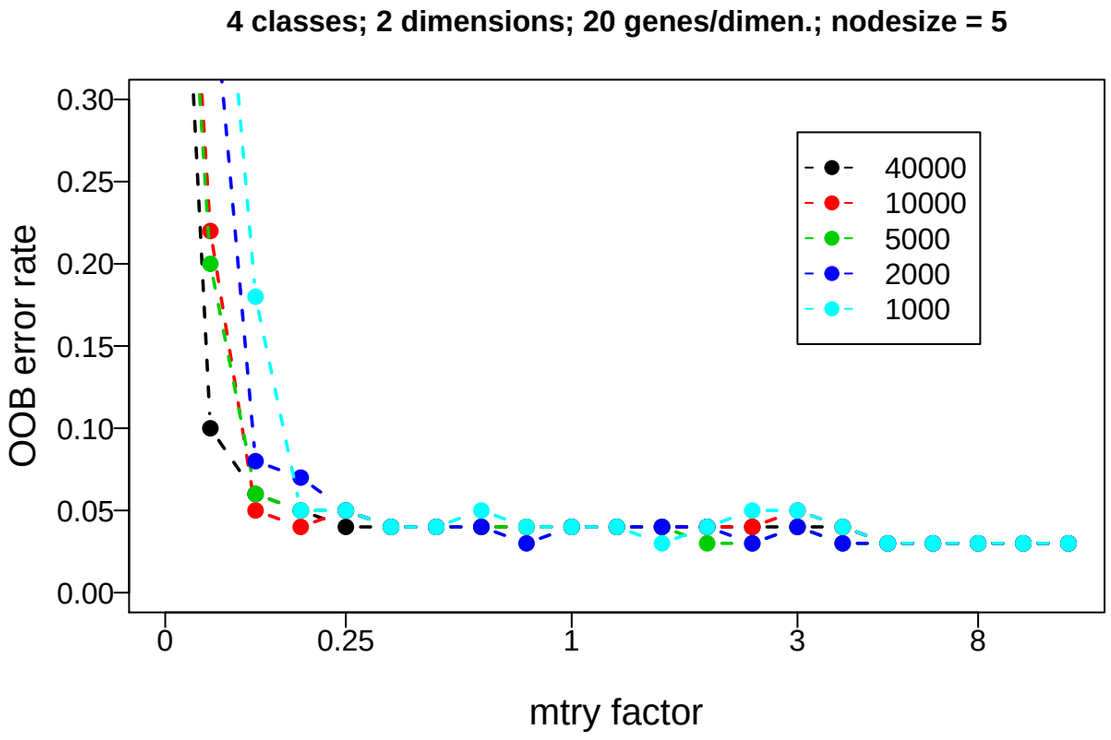

4 classes; 1 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

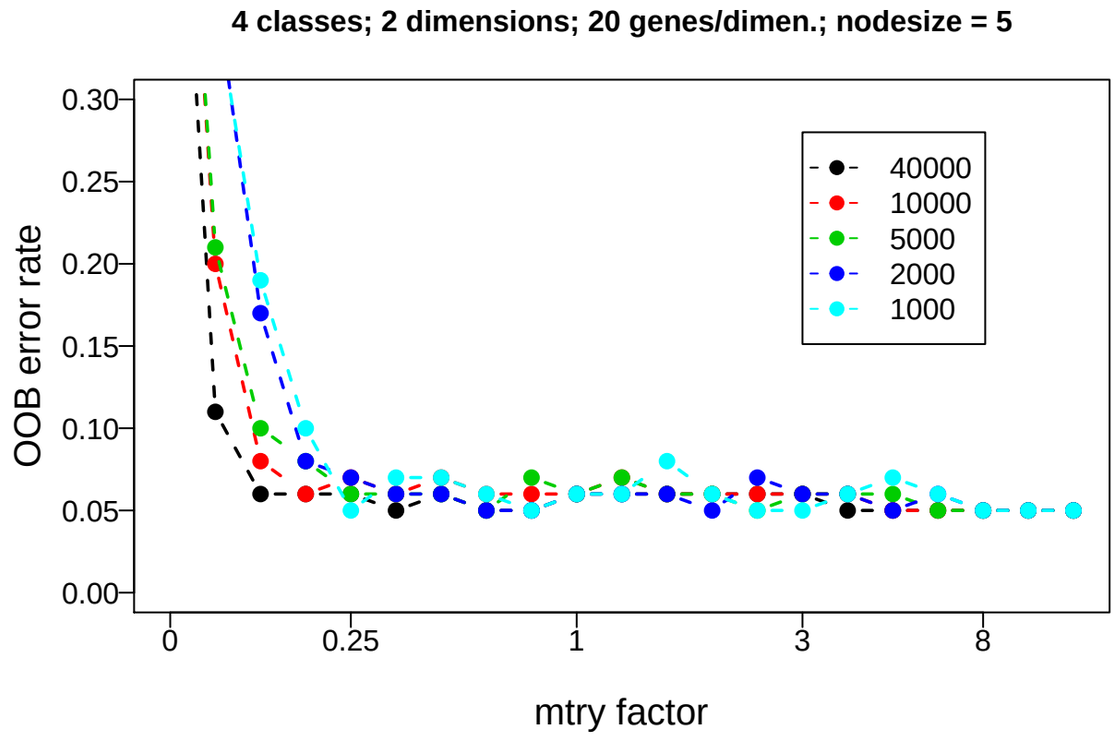

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

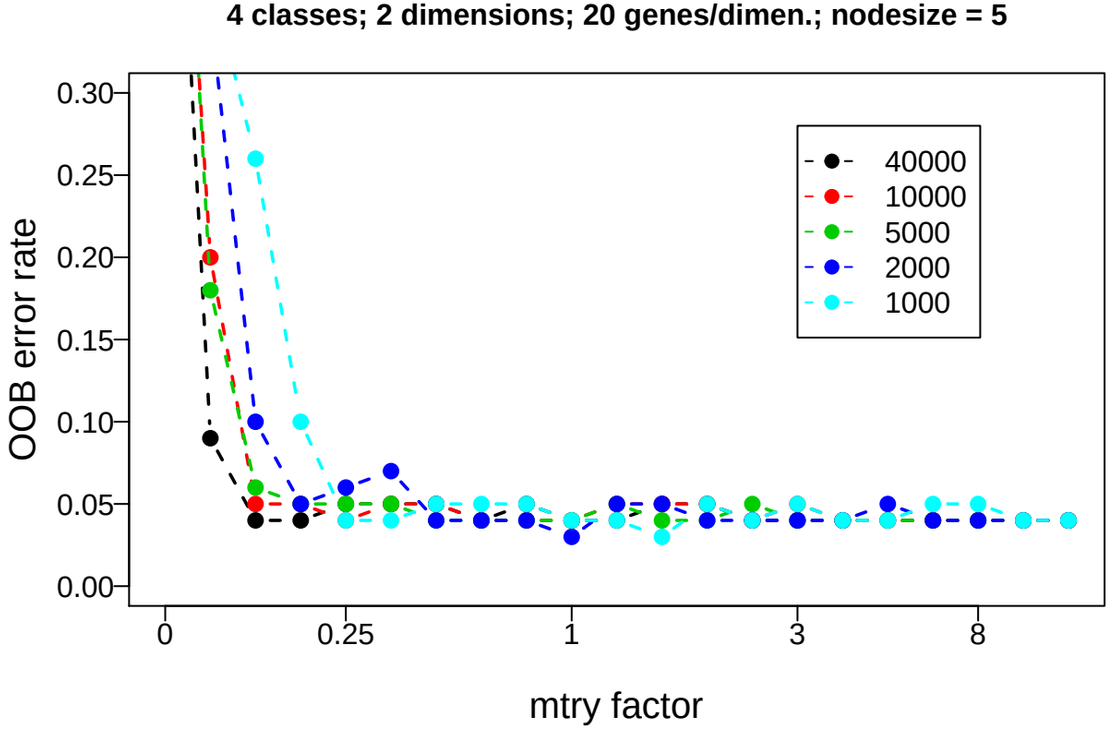

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

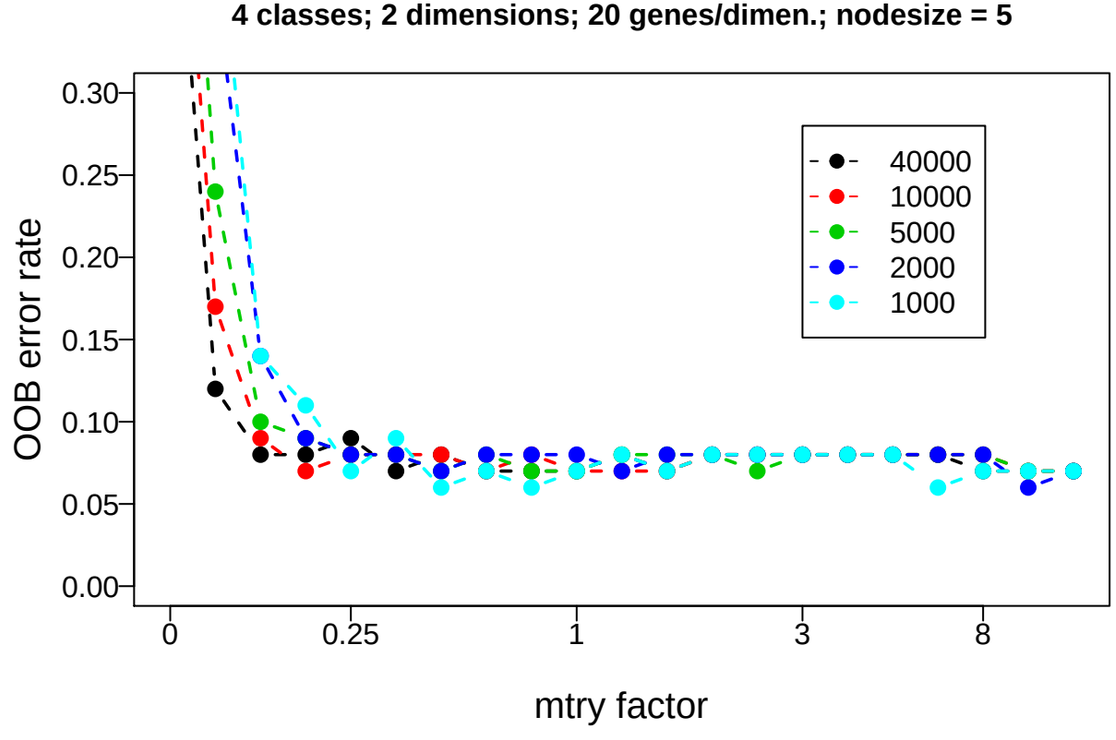

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

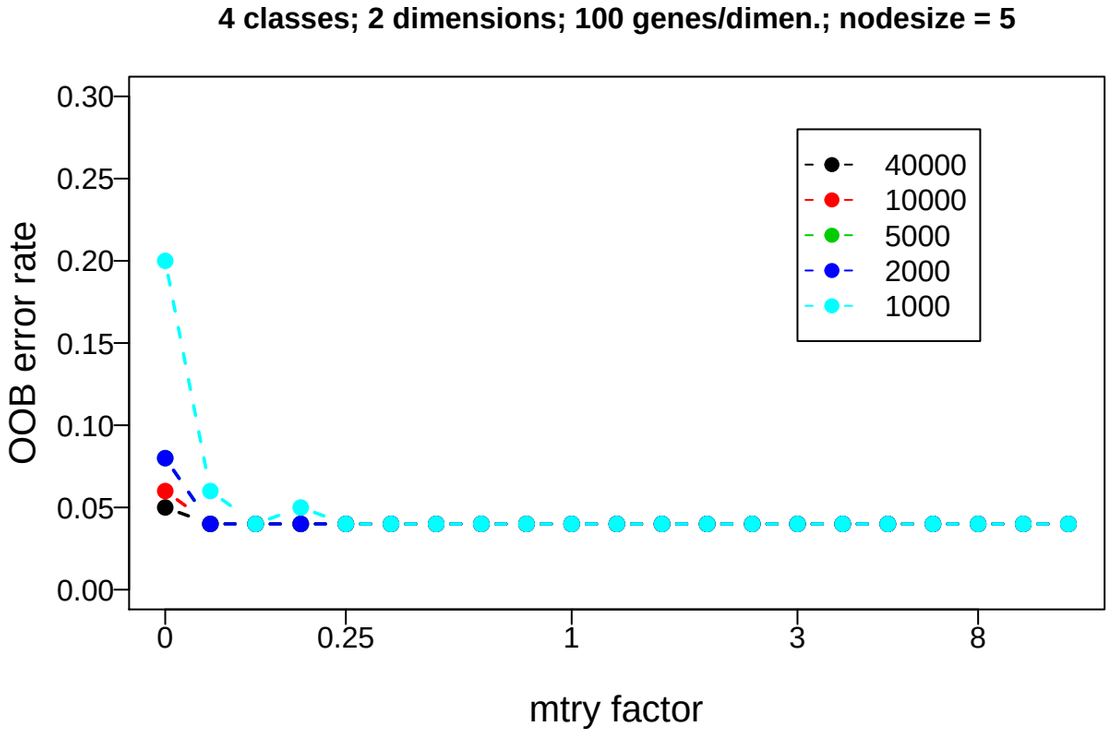

4 classes; 2 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

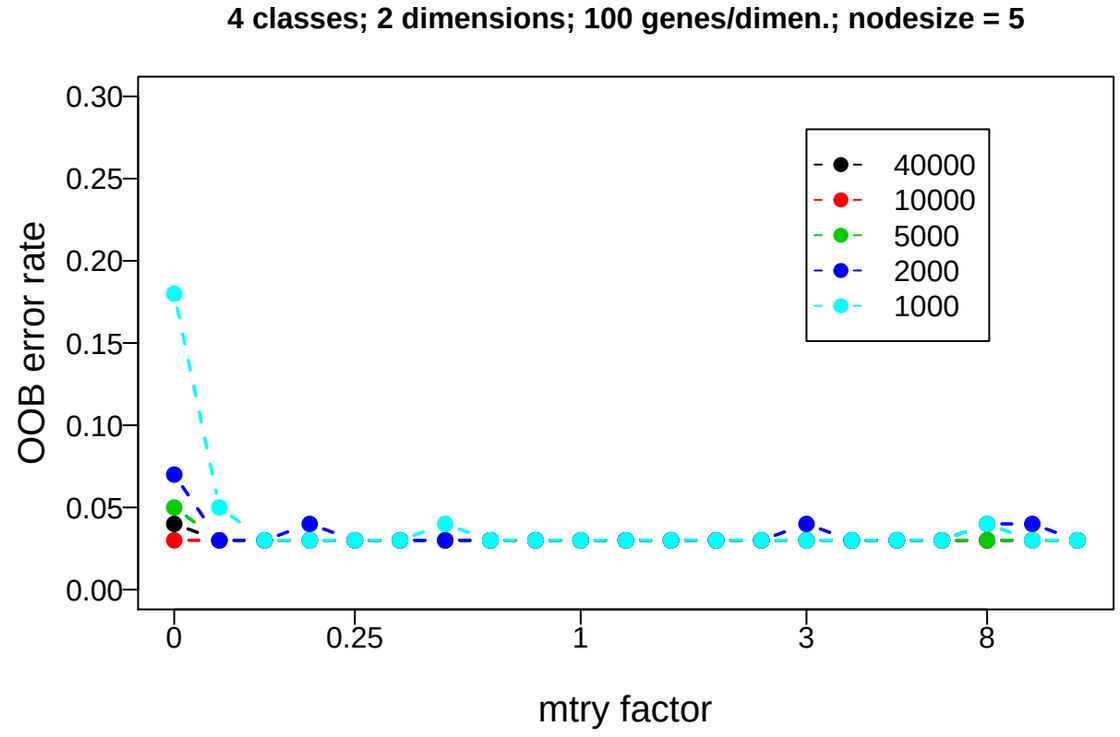

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

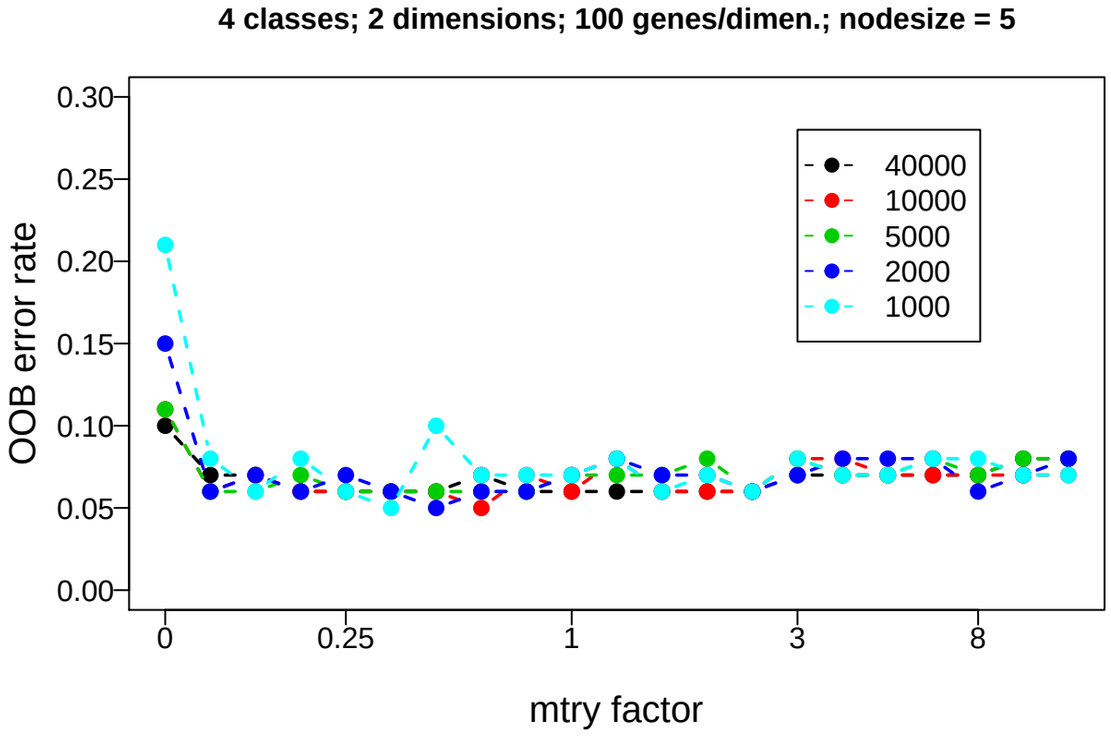

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

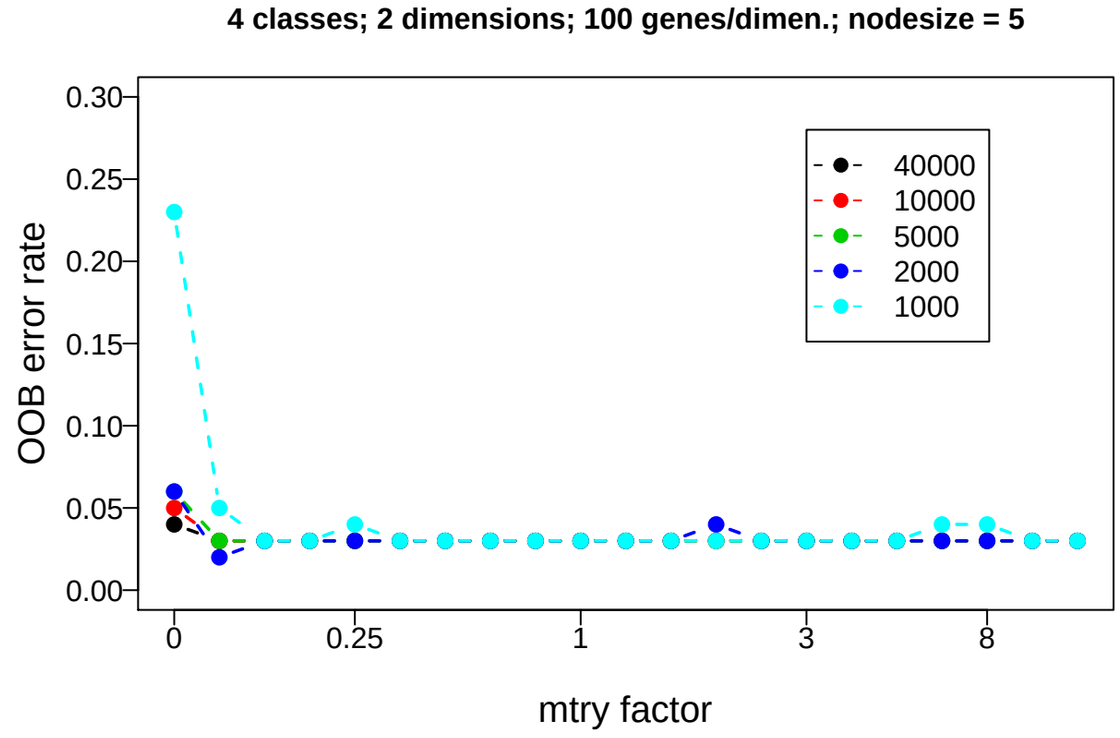

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

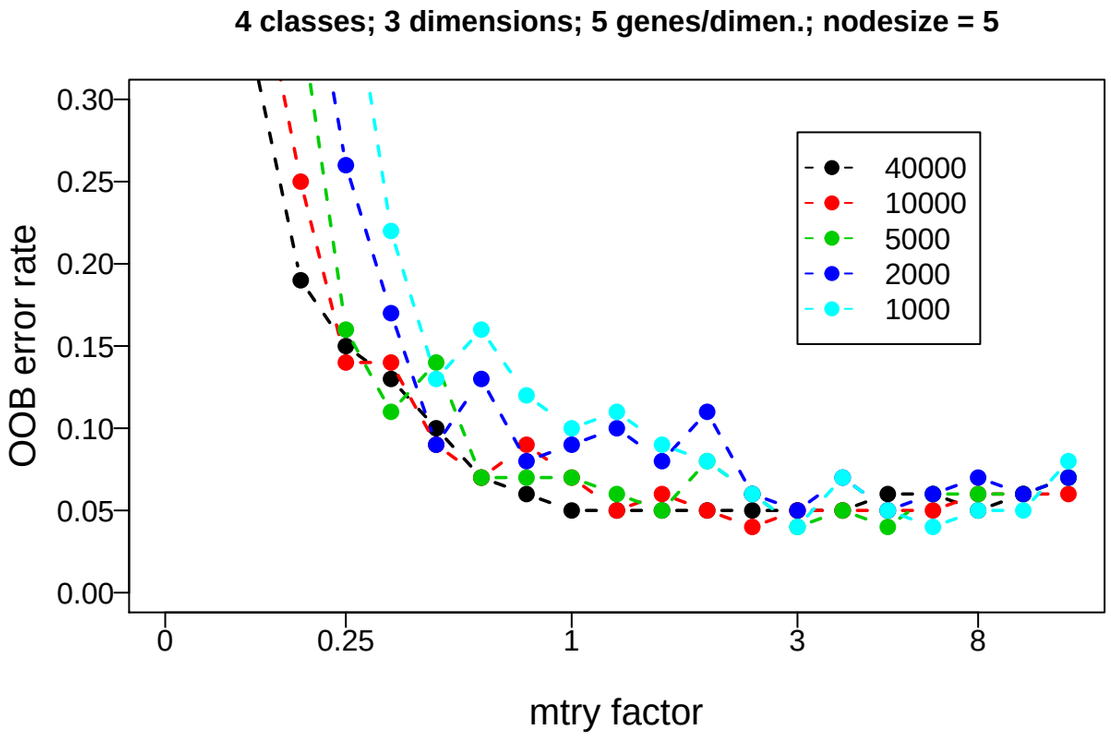

4 classes; 2 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

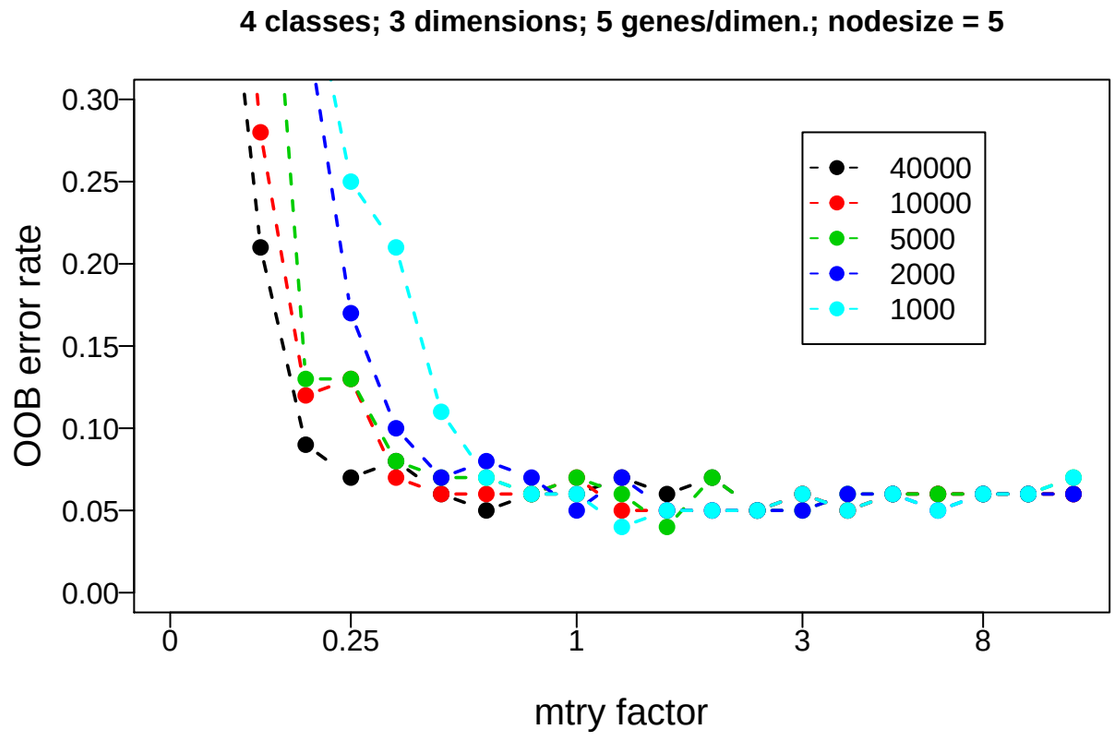

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

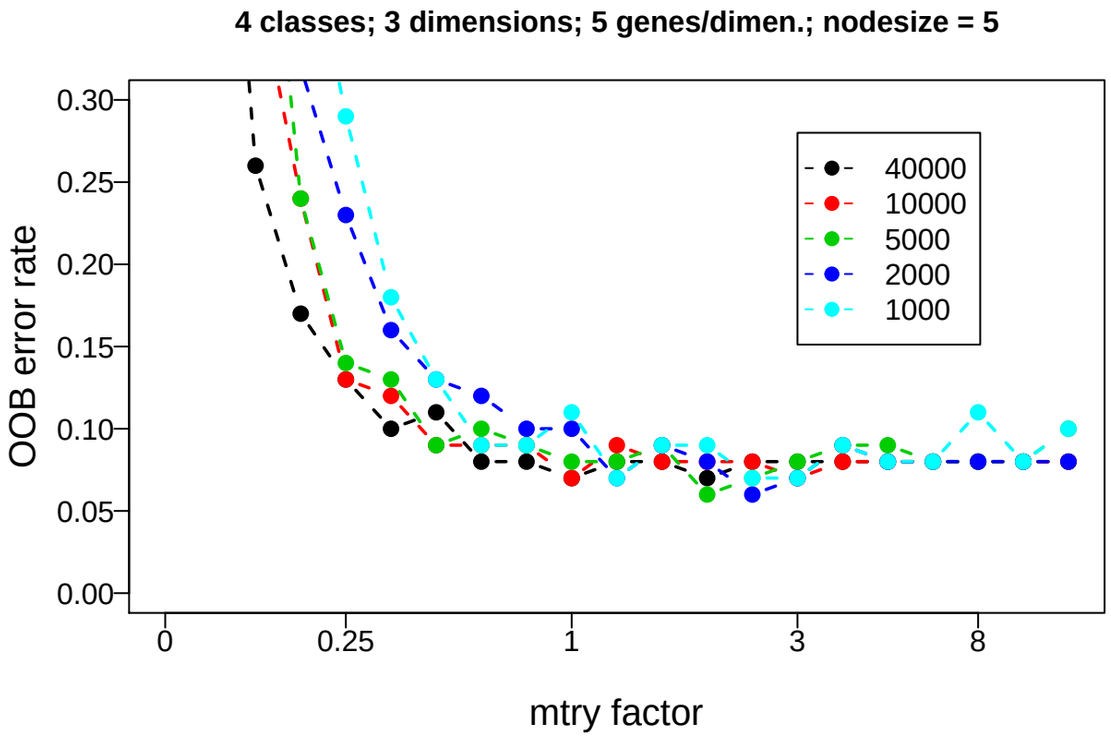

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

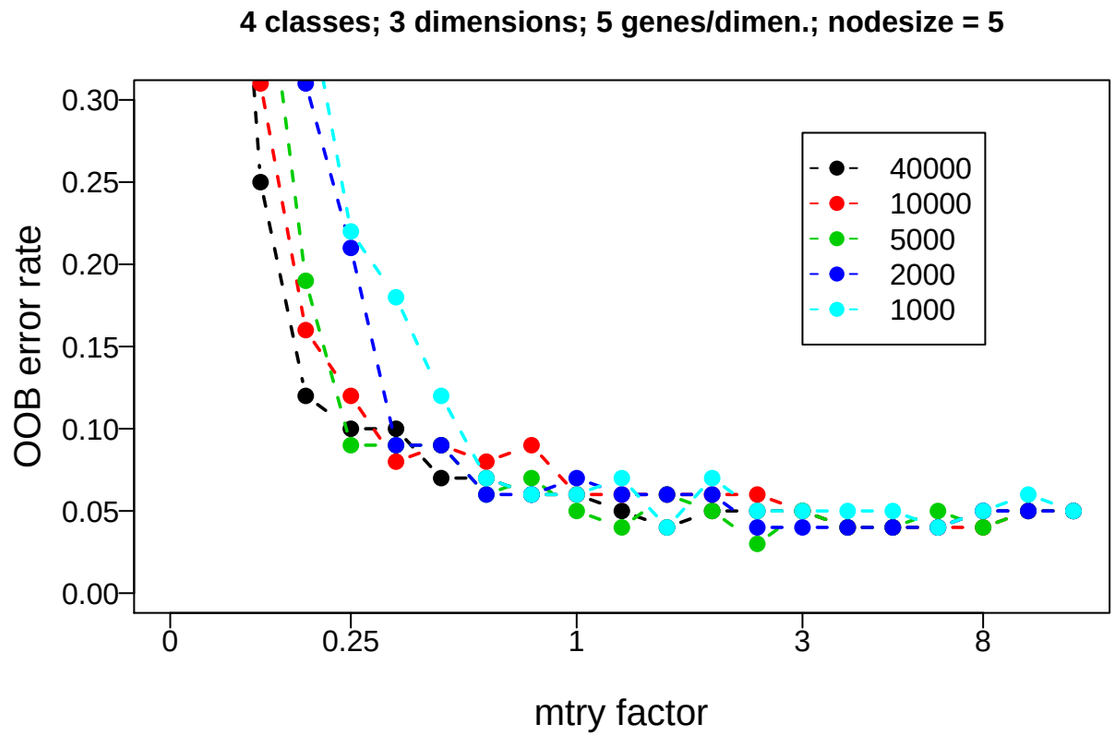

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

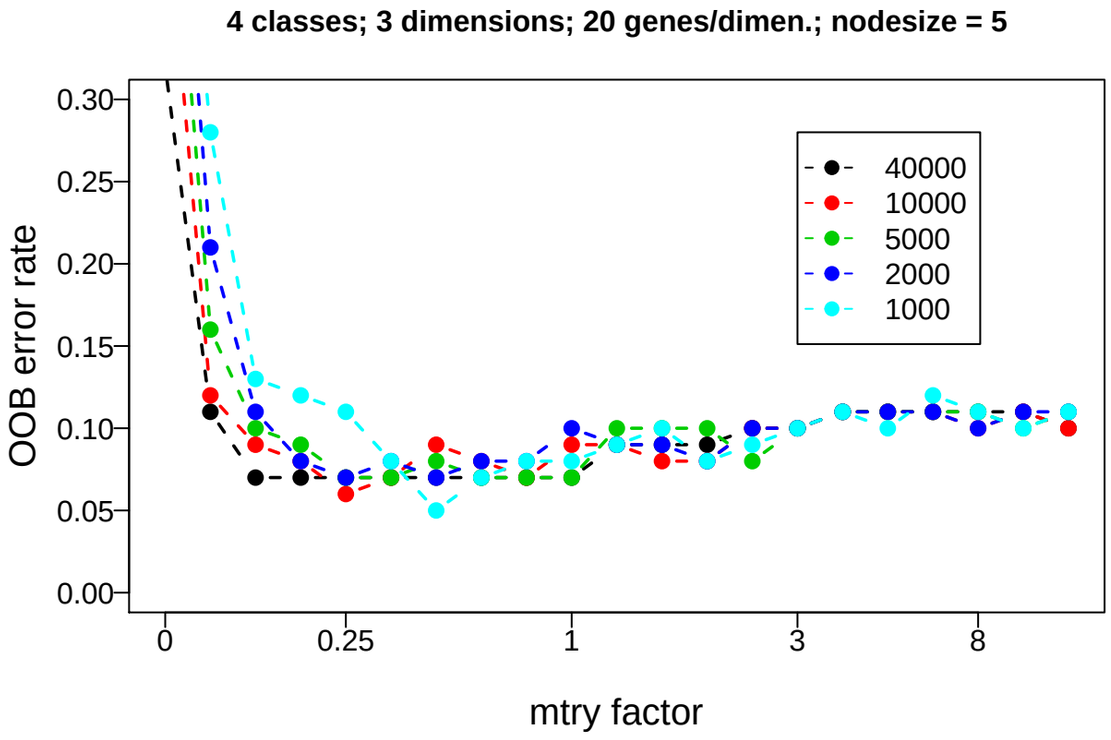

4 classes; 2 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

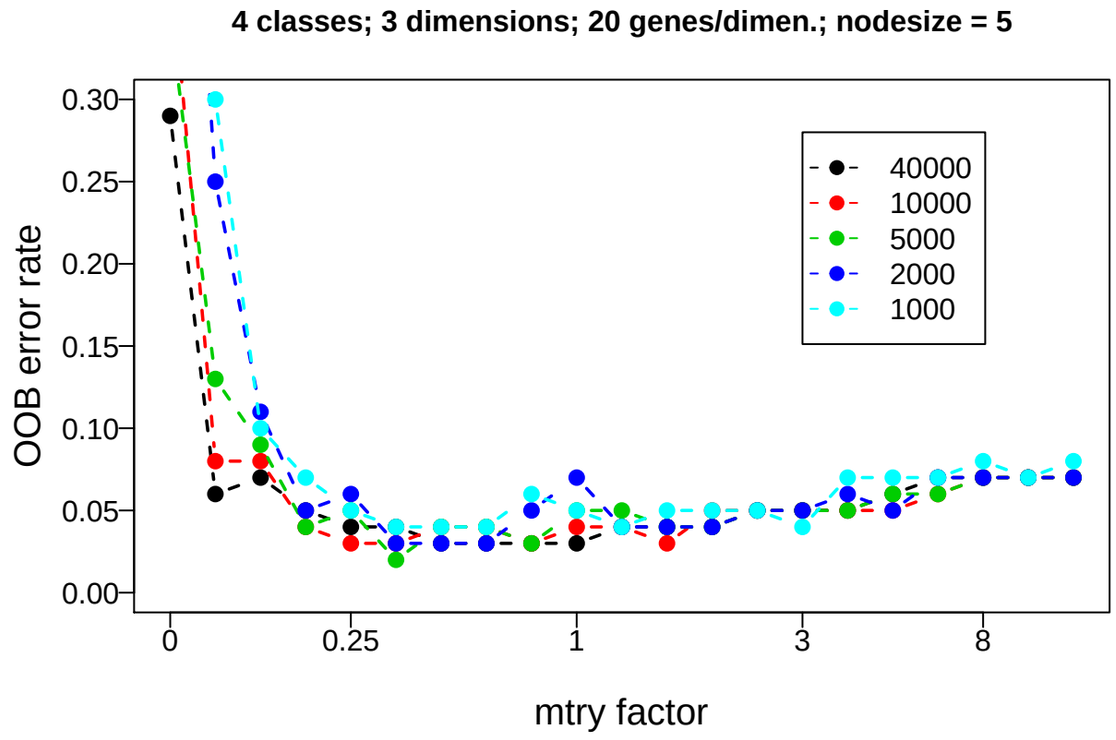

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

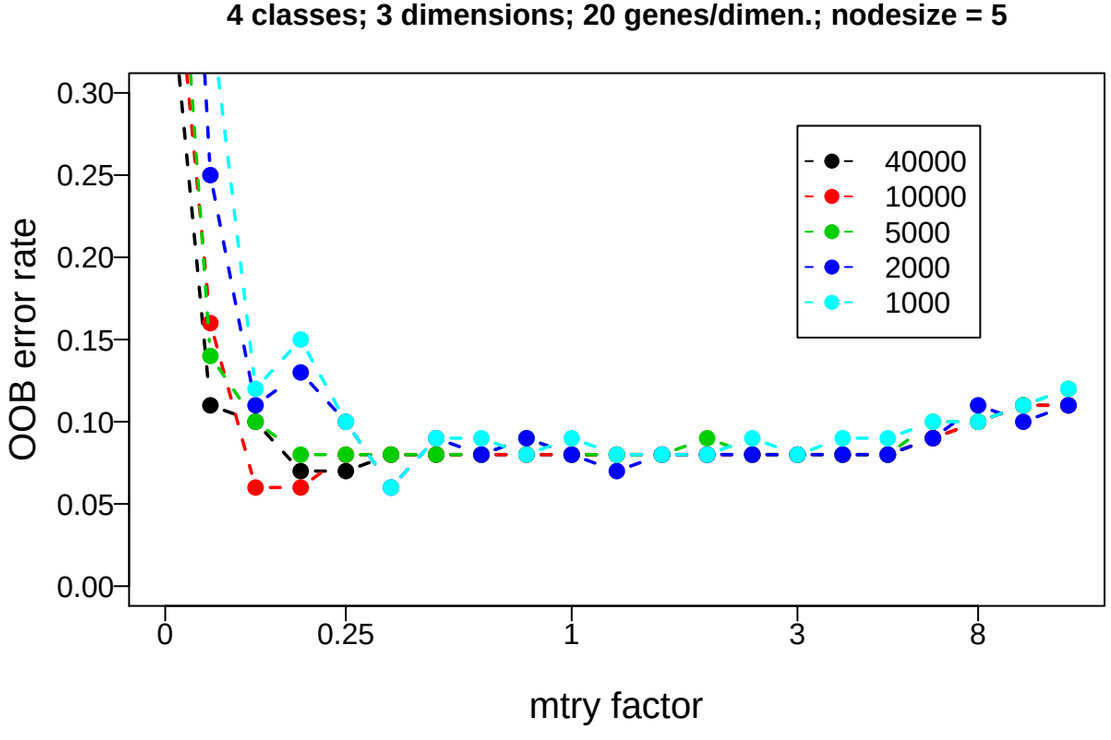

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

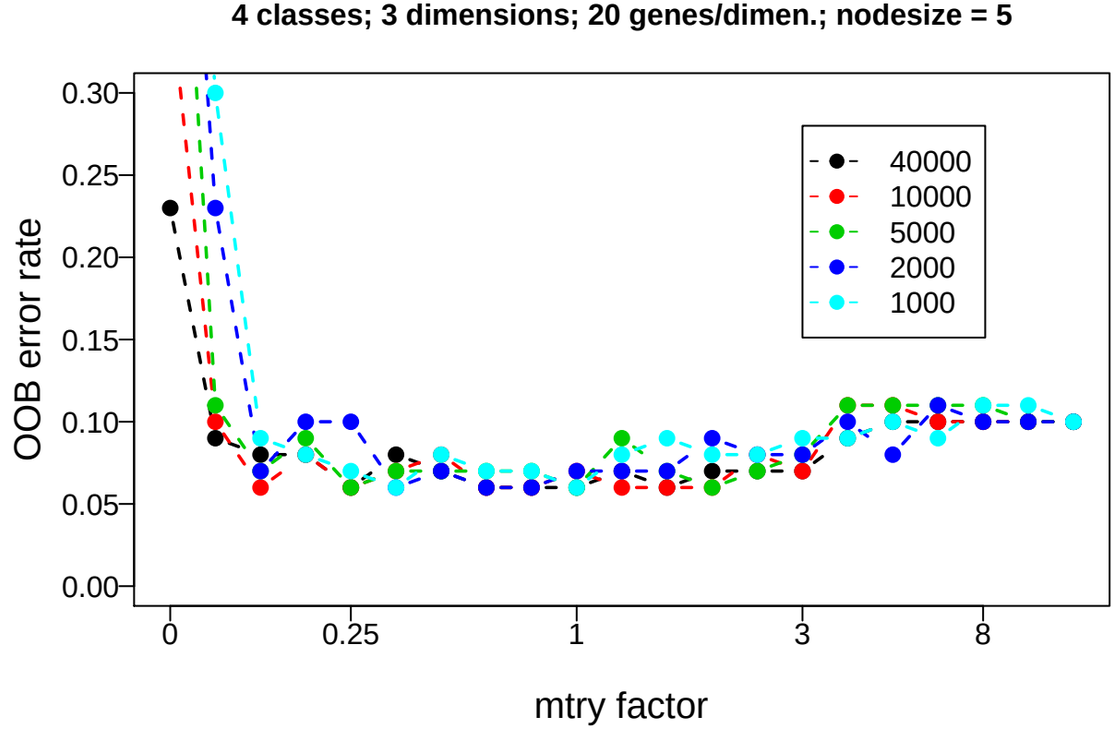

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

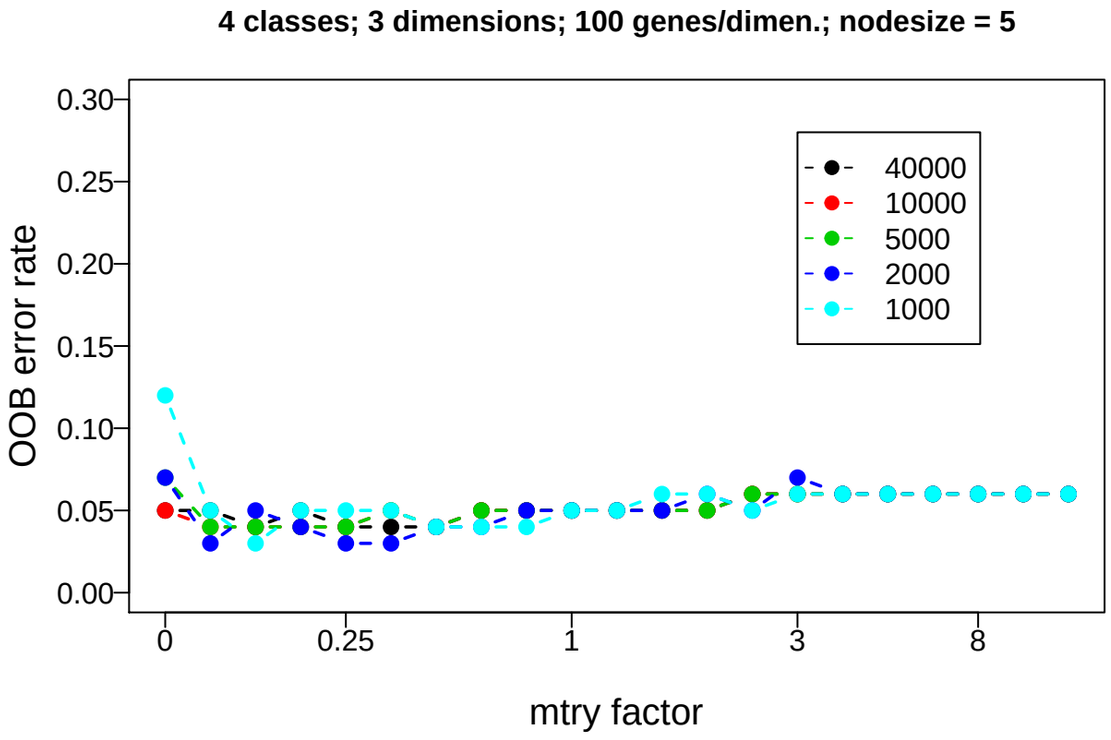

4 classes; 3 dimensions; 5 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

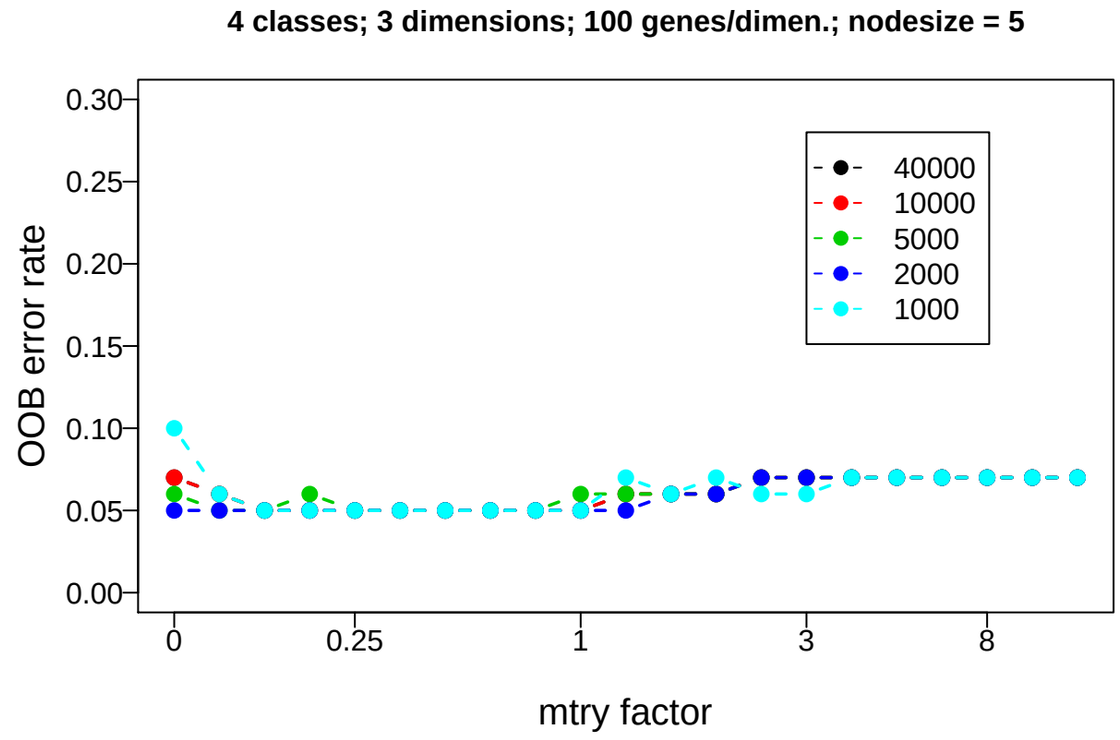

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

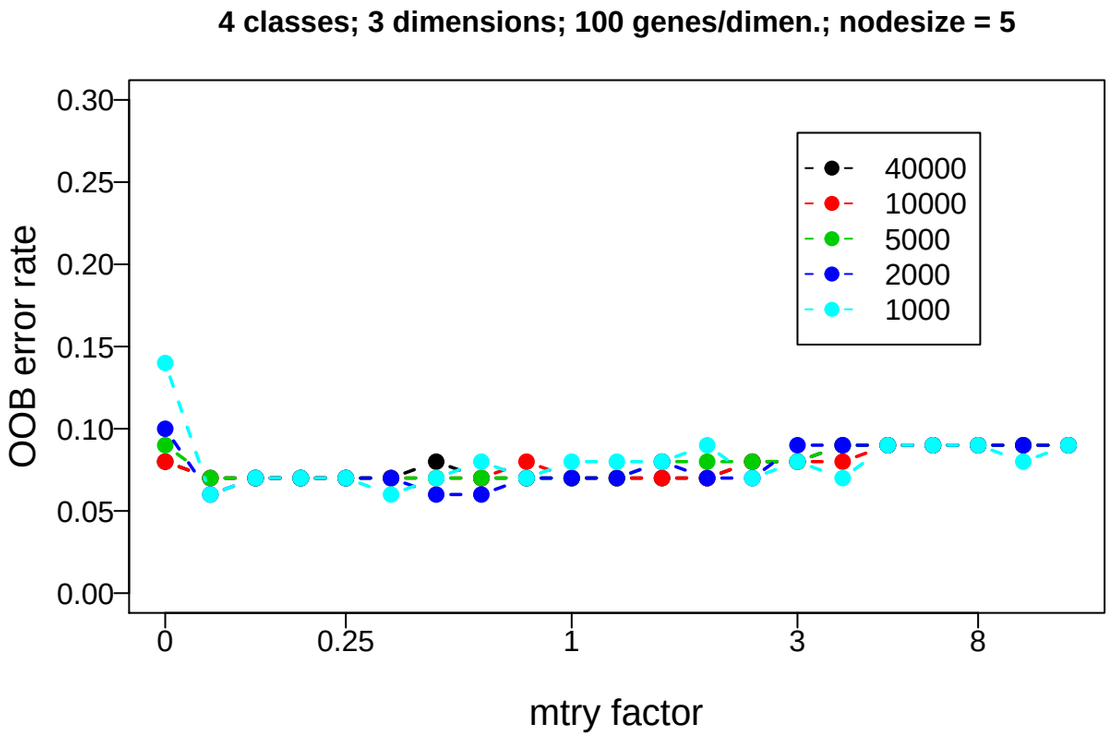

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

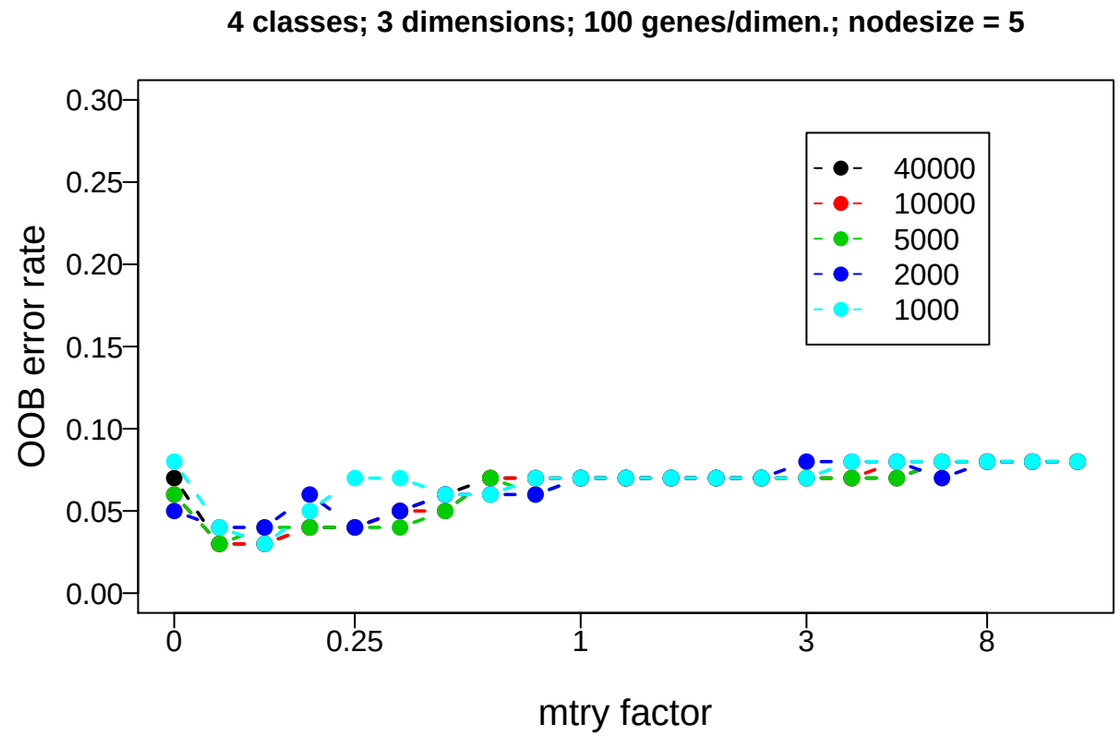

4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000


4 classes; 3 dimensions; 20 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000


4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor


4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

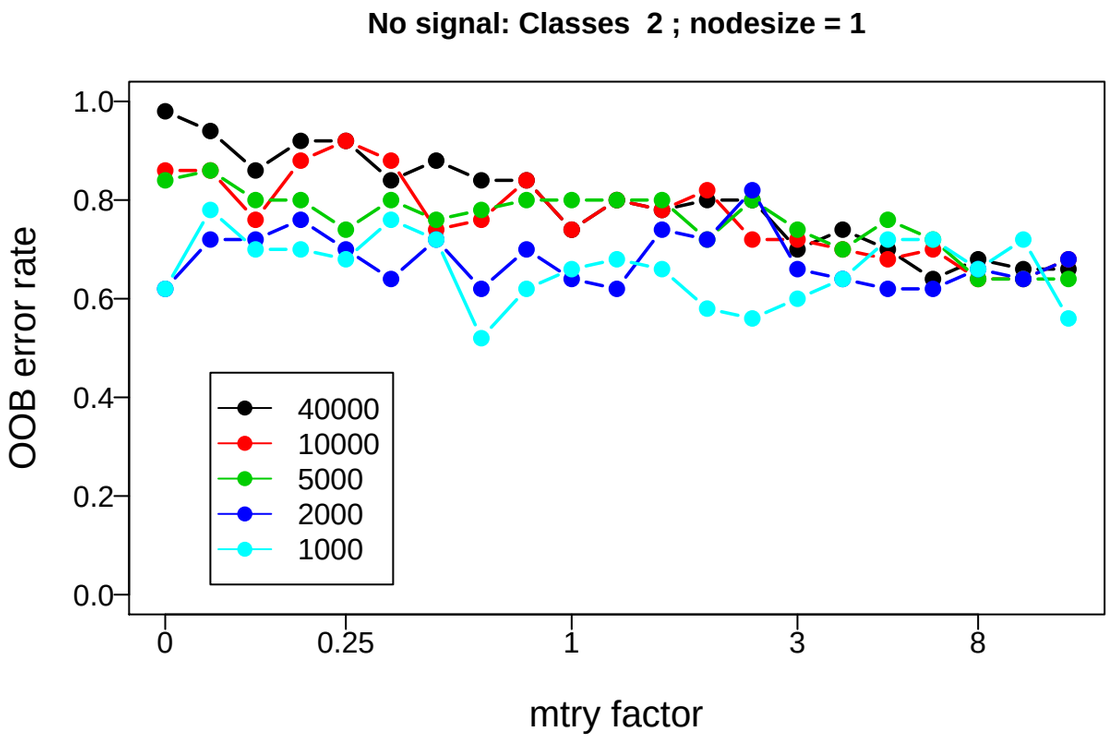

4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

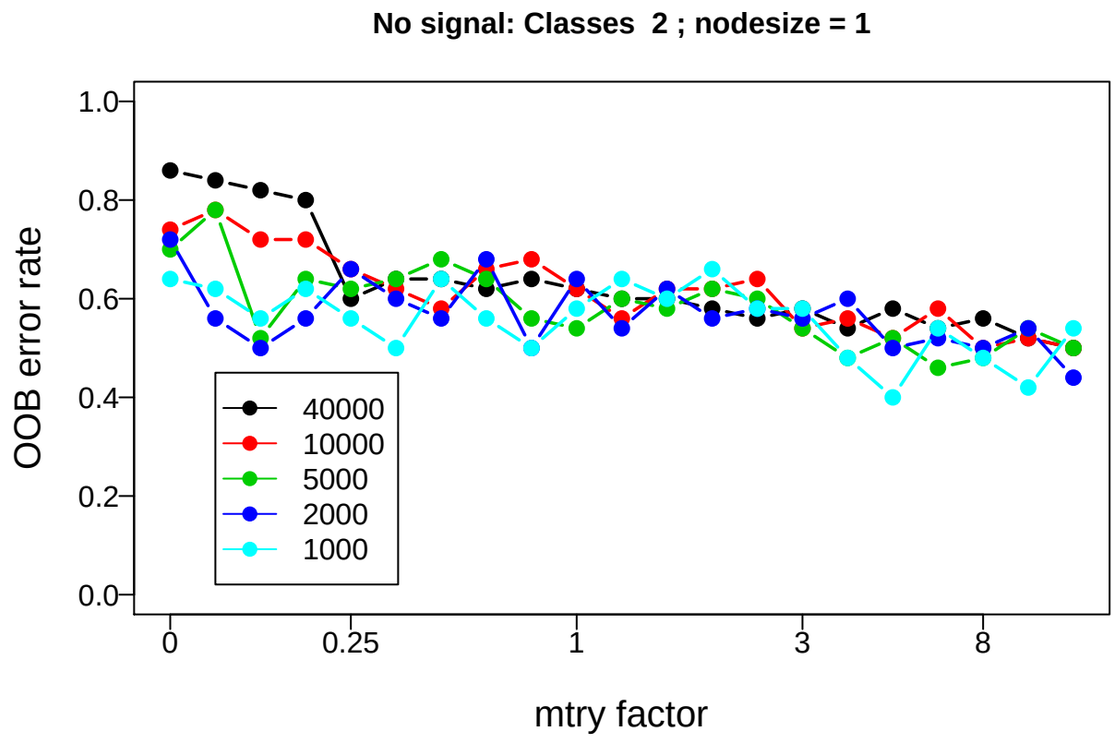

4 classes; 3 dimensions; 100 genes/dimen.; nodesize = 5
OOB error rate
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

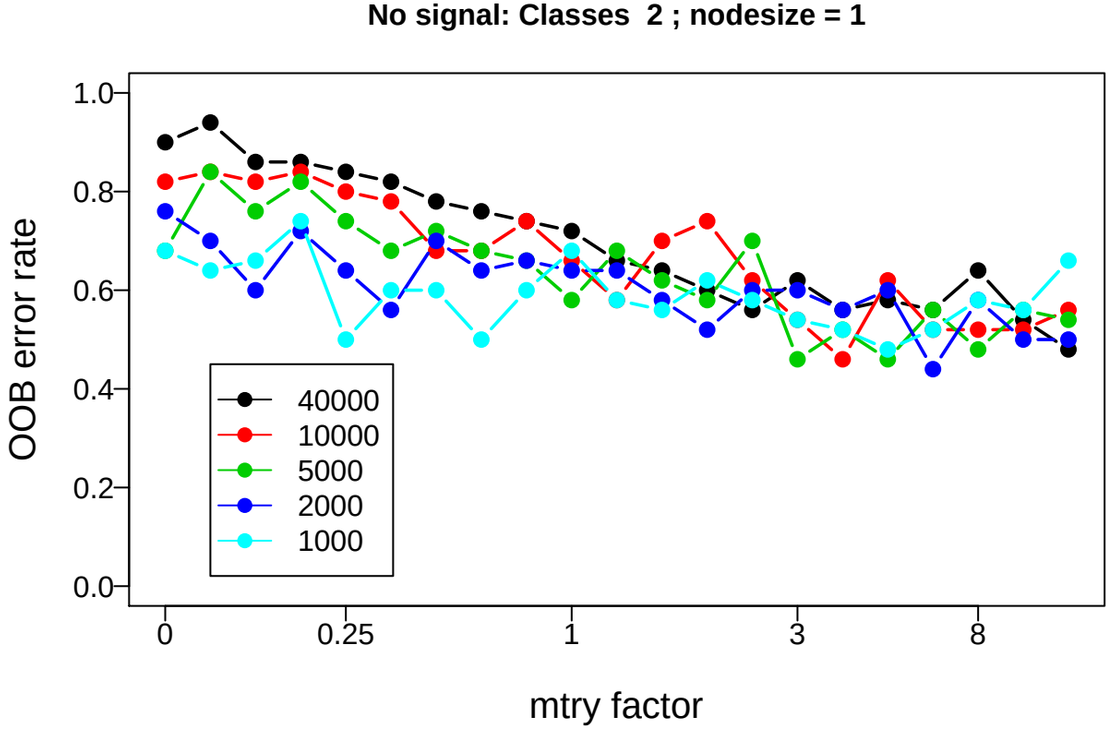
II: Simulated data sets:

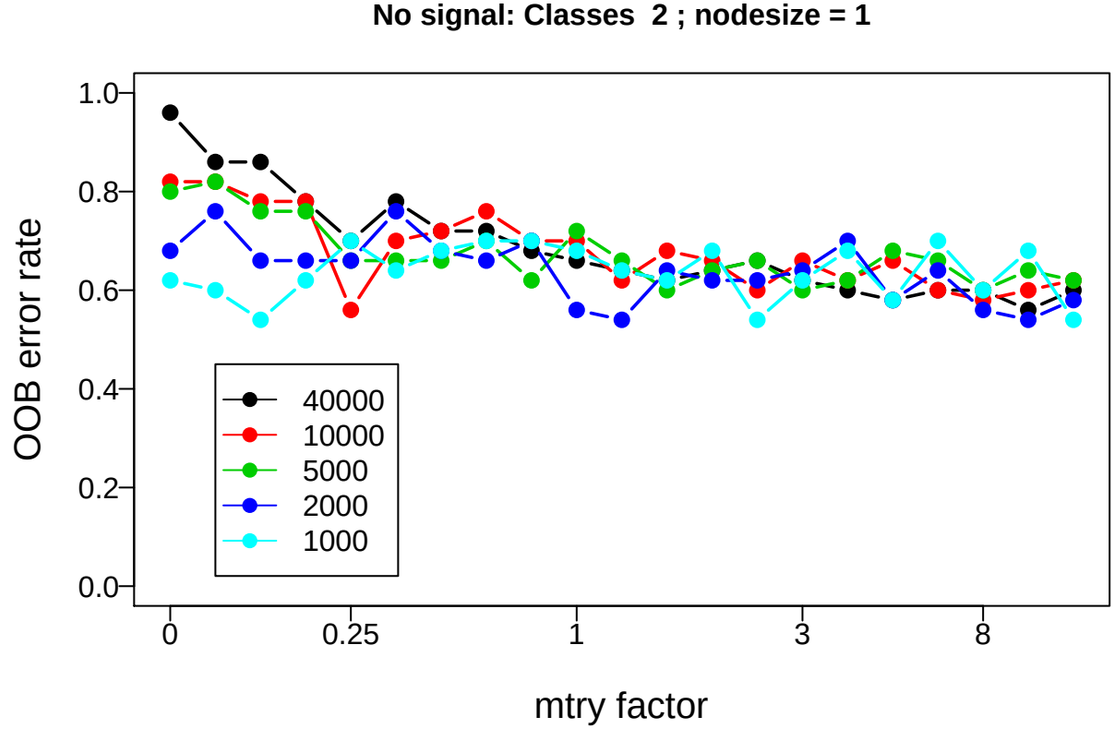
No signal: 4000 noise random variables

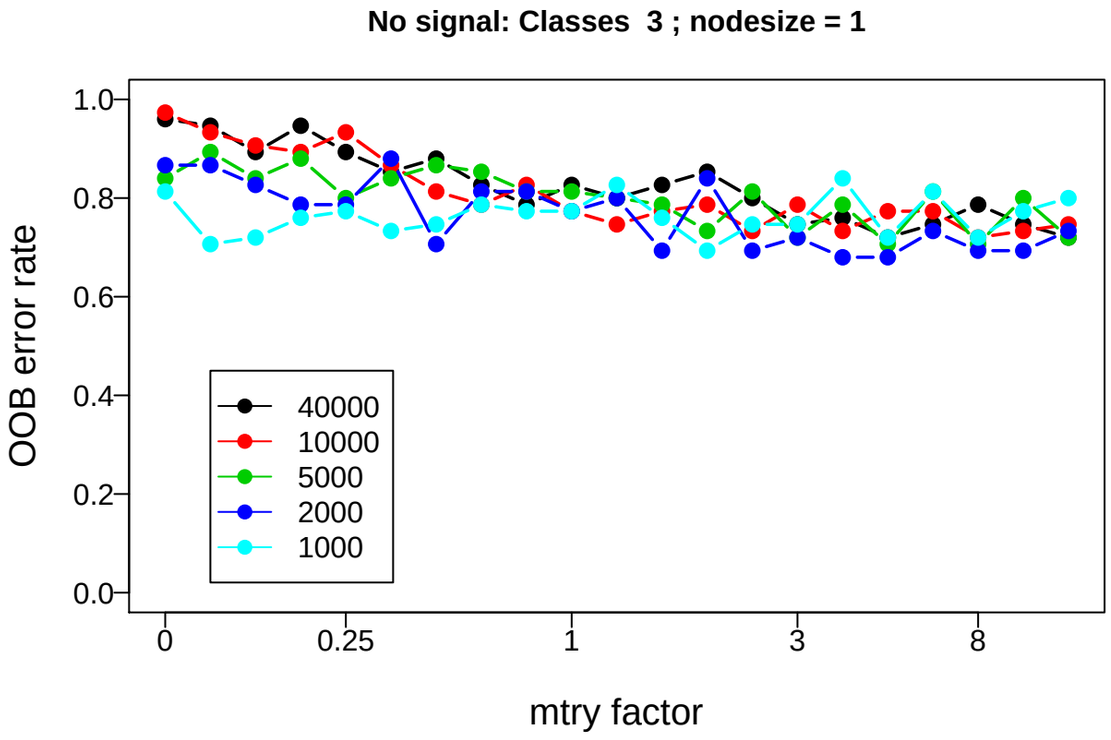
(shown first with nodesize = 1, then nodesize = 5)

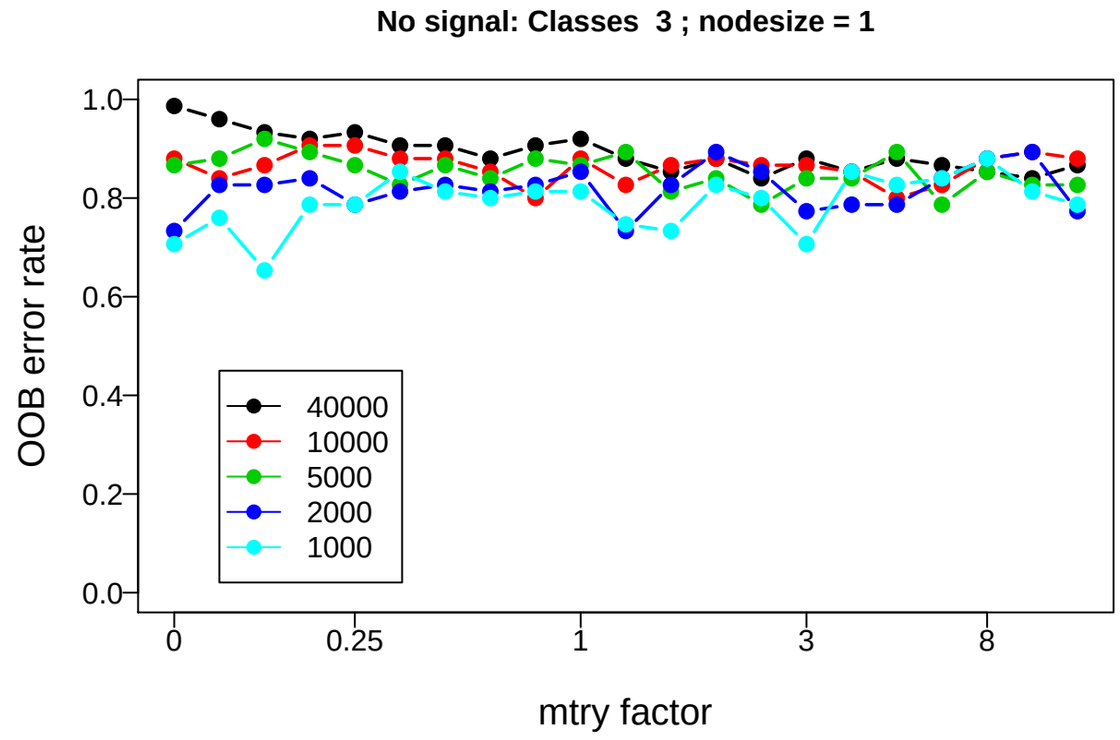

No signal: Classes 2 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

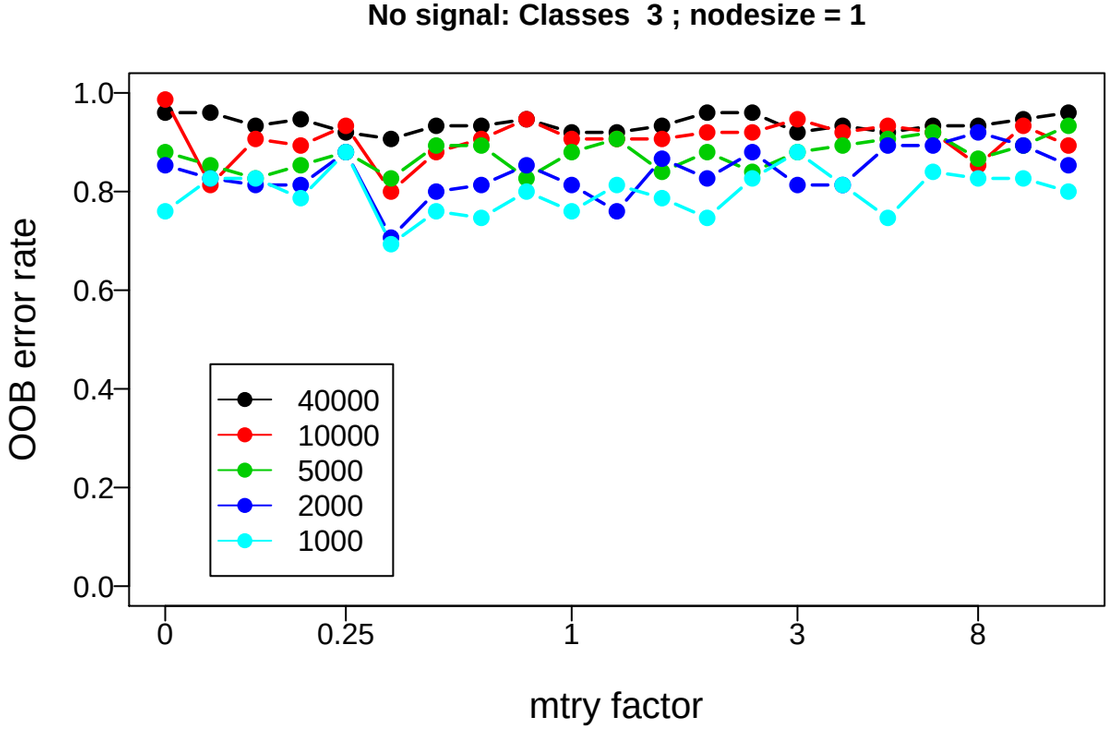

No signal: Classes 2 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

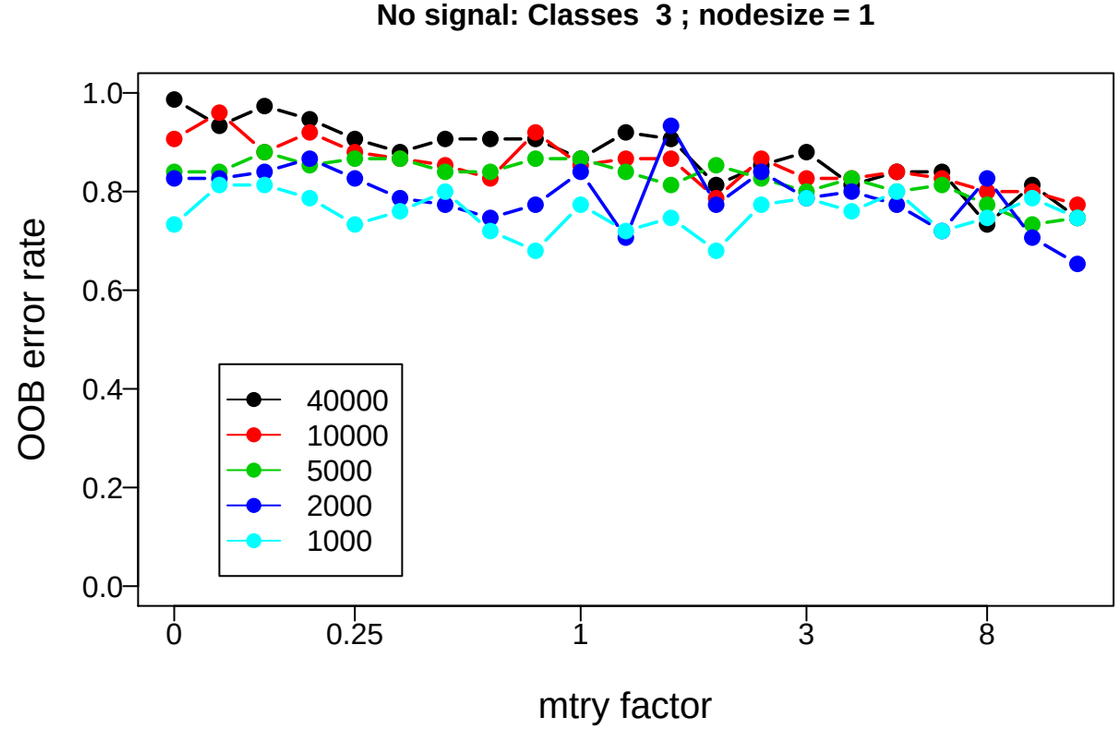

No signal: Classes 2 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

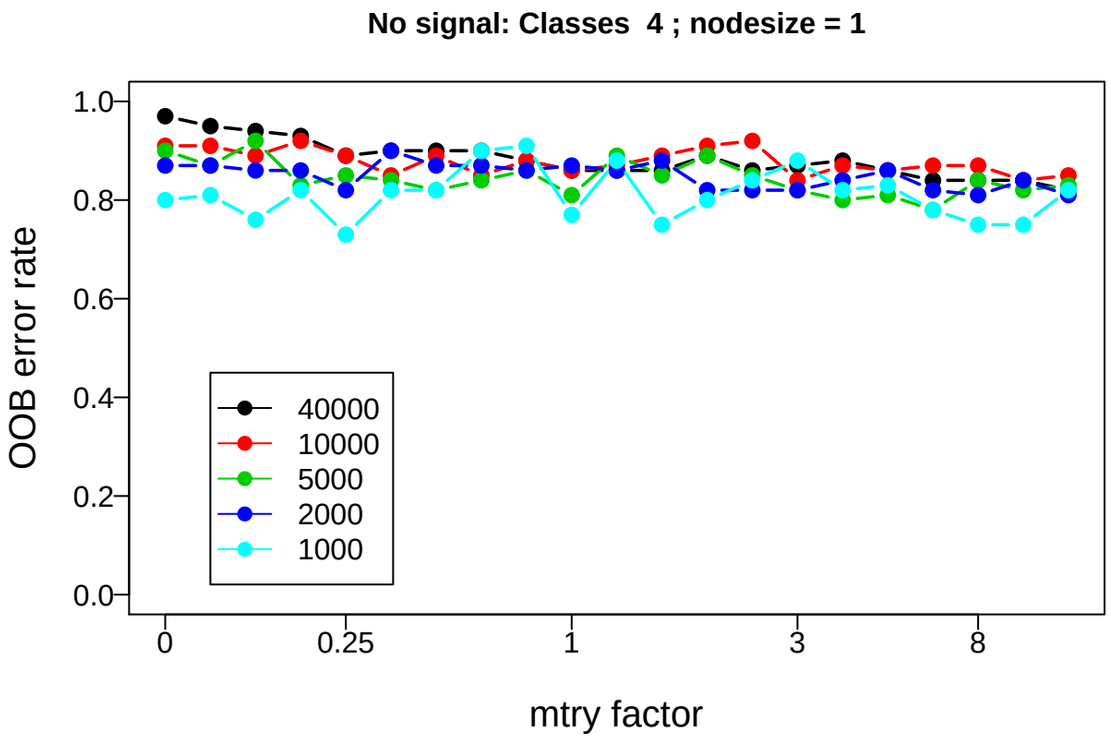

No signal: Classes 2 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
0
0.25
1
3
8
mtry factor
40000
10000
5000
2000
1000

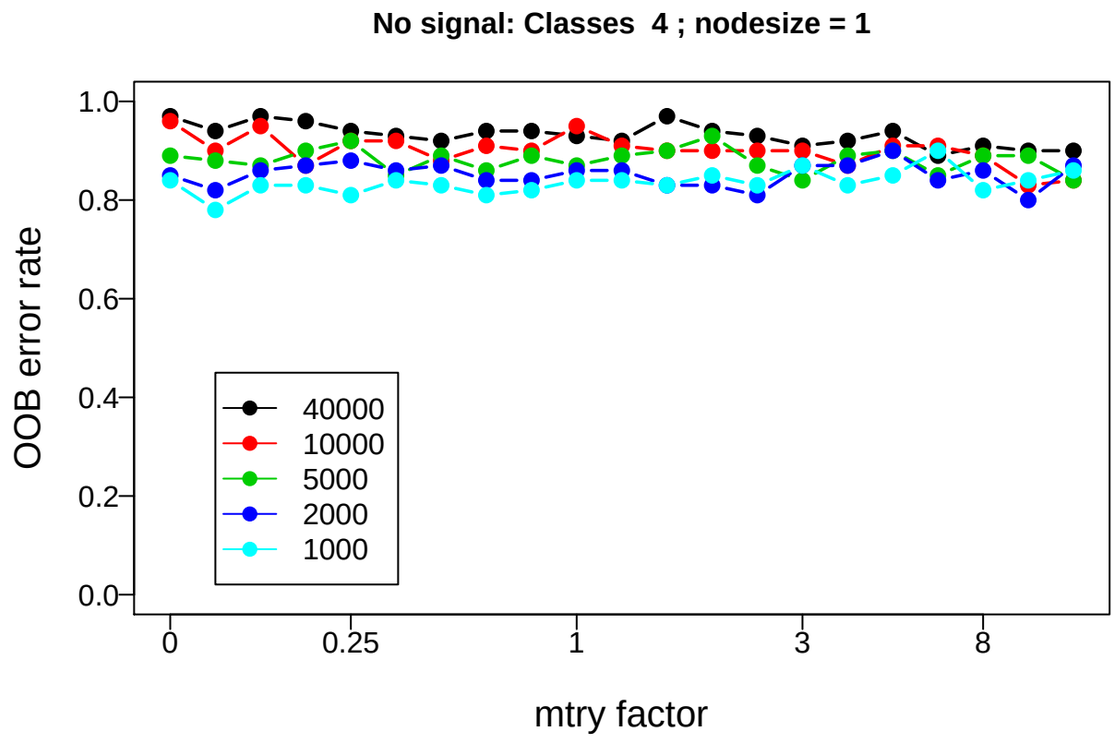

No signal: Classes 3 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

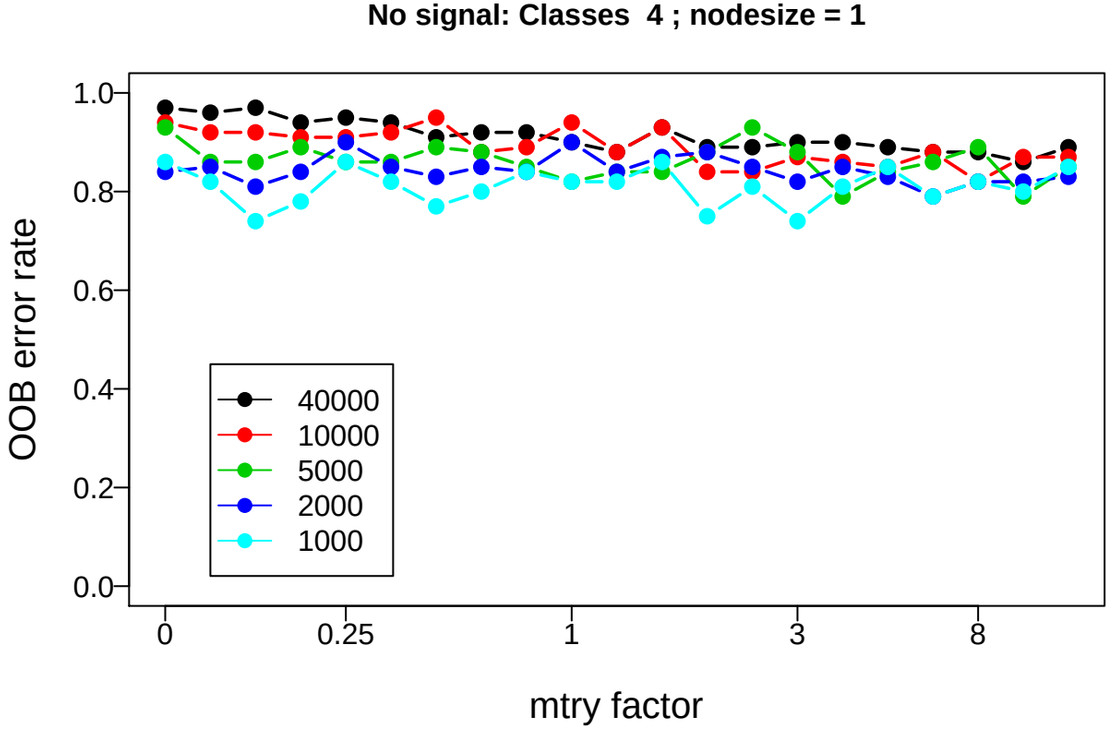

No signal: Classes 3 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

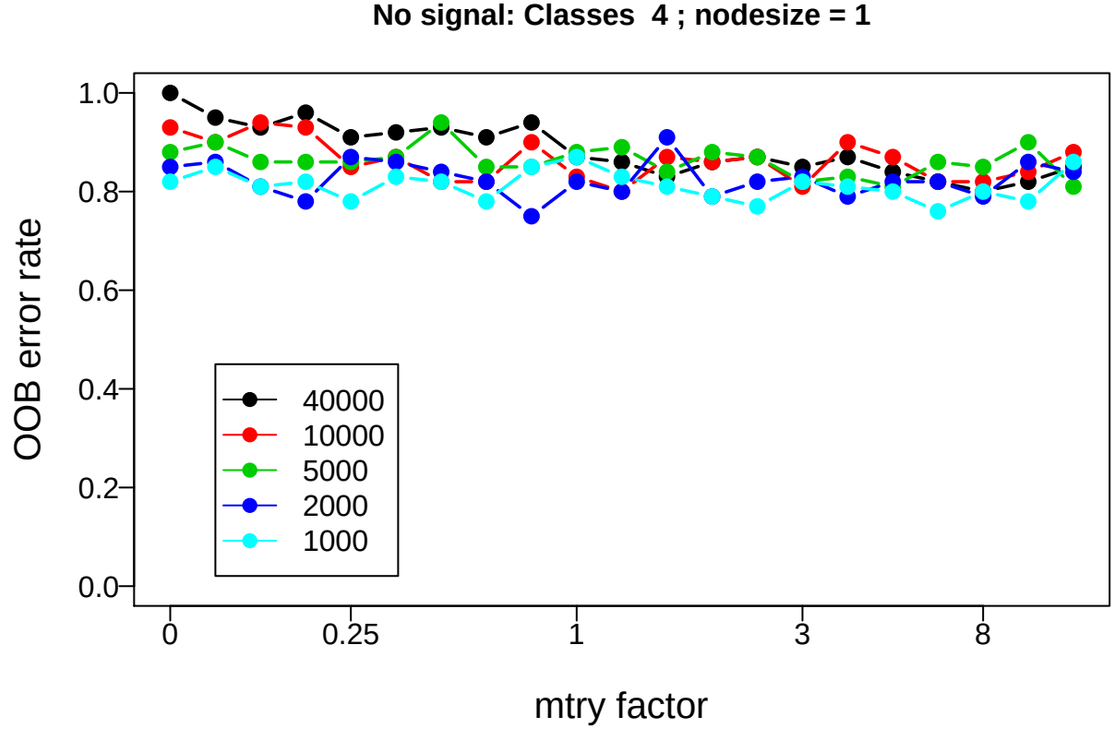

No signal: Classes 3 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

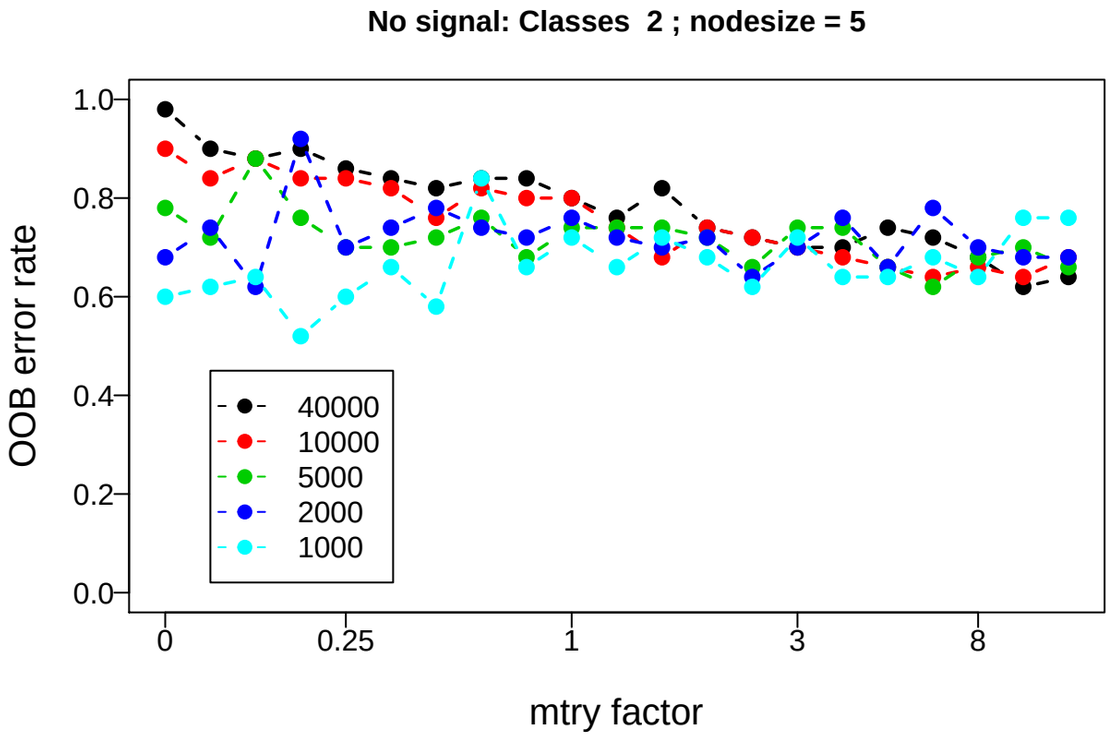

No signal: Classes 3 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

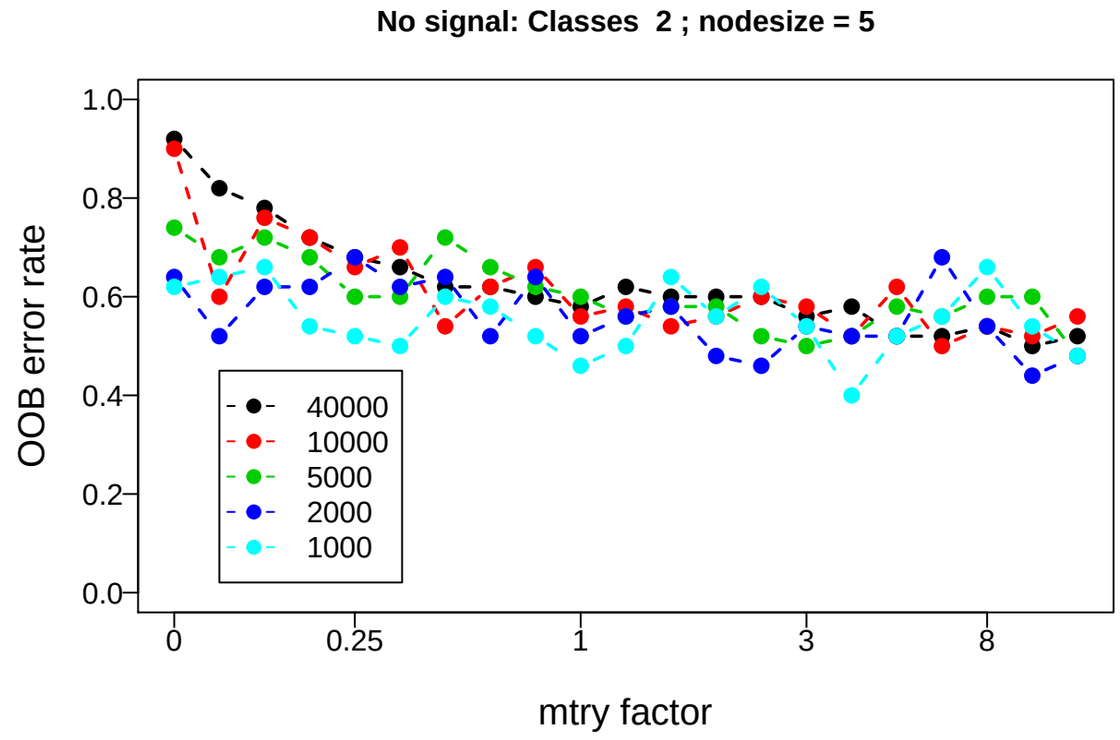

No signal: Classes 4 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

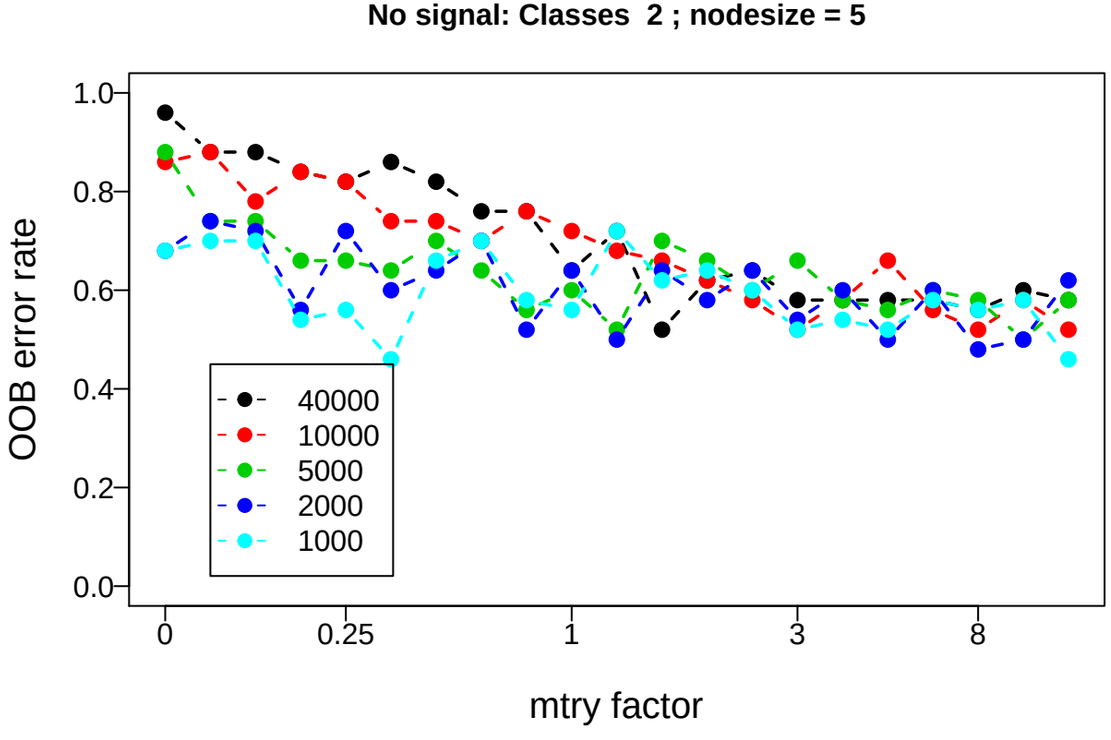

No signal: Classes 4 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

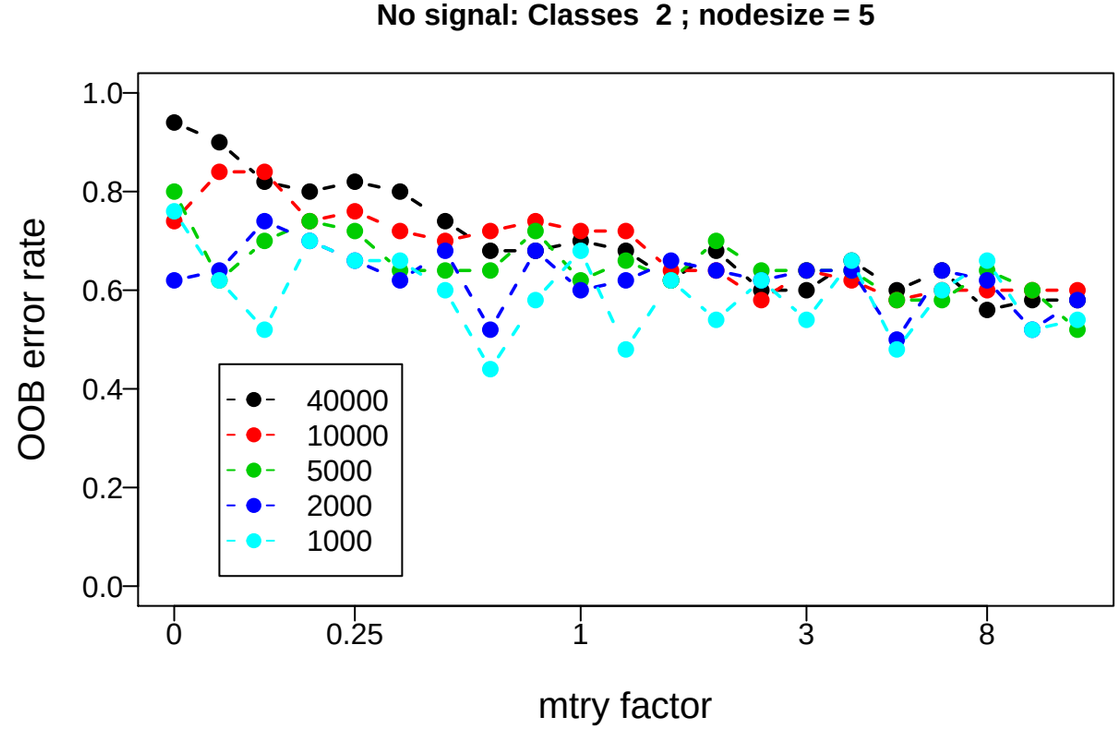

No signal: Classes 4 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

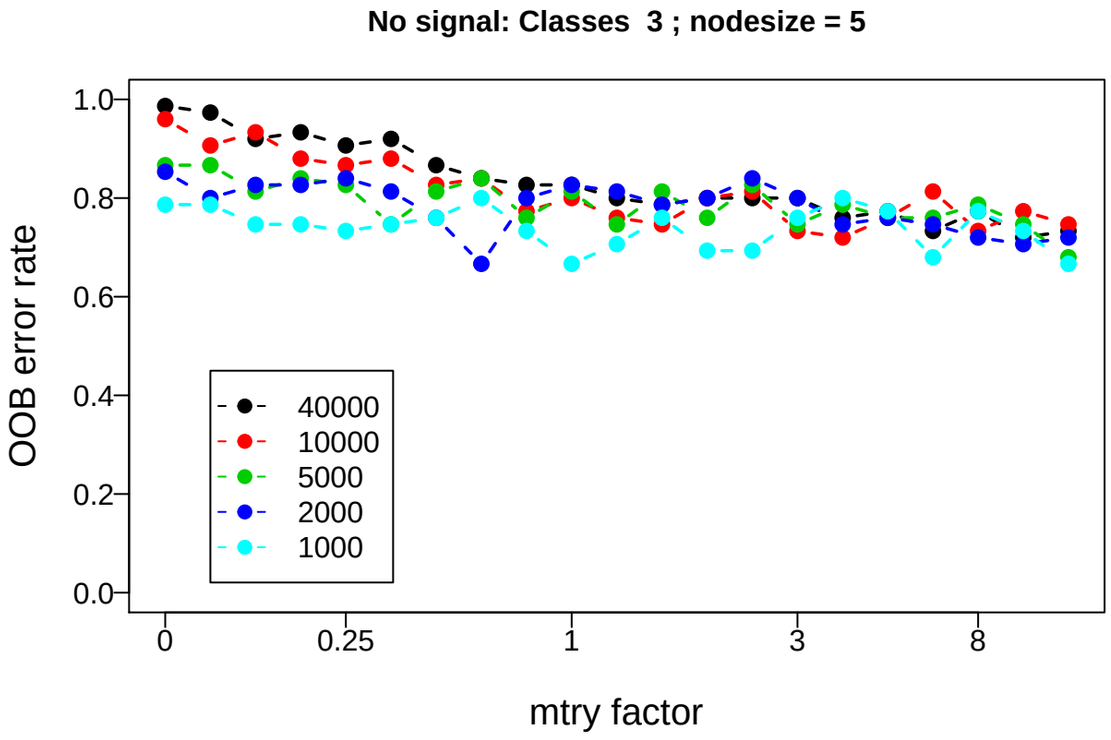

No signal: Classes 4 ; nodesize = 1
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

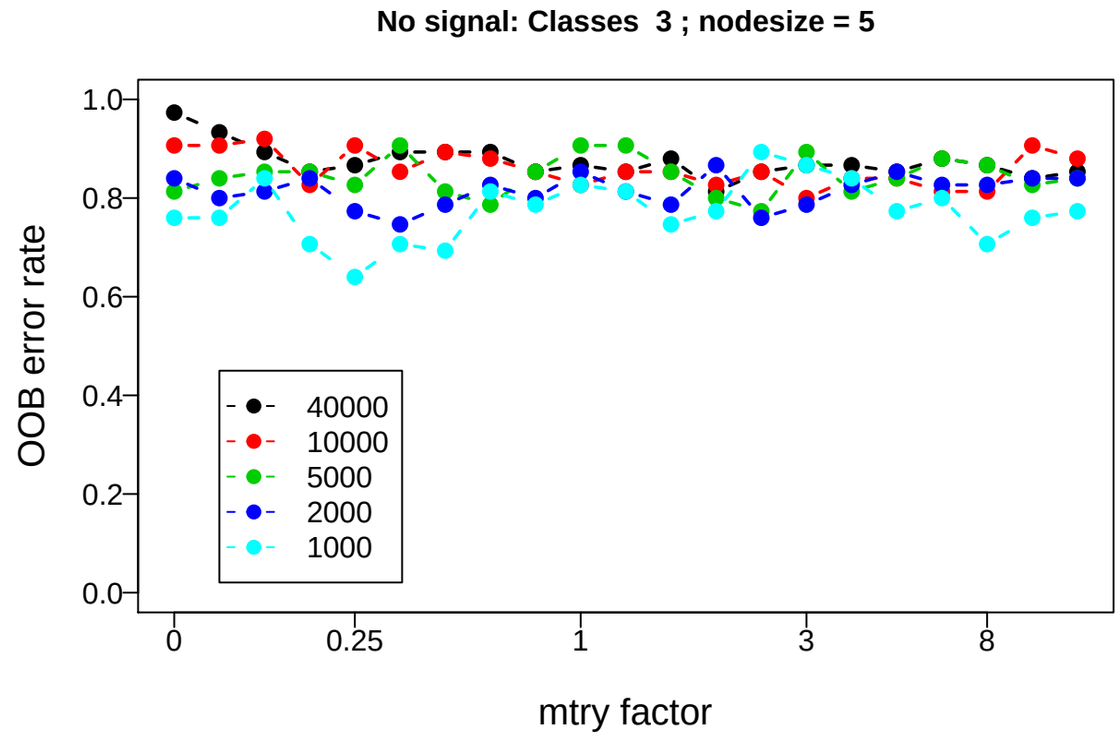

No signal: Classes 2 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

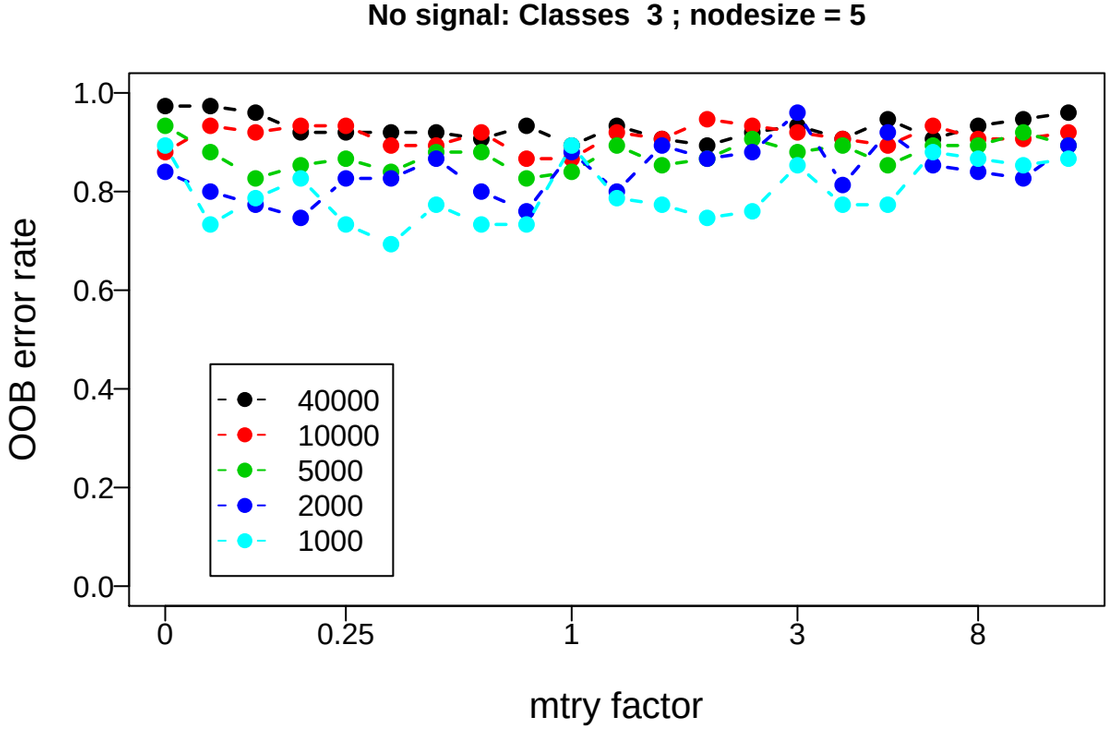

No signal: Classes 2 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

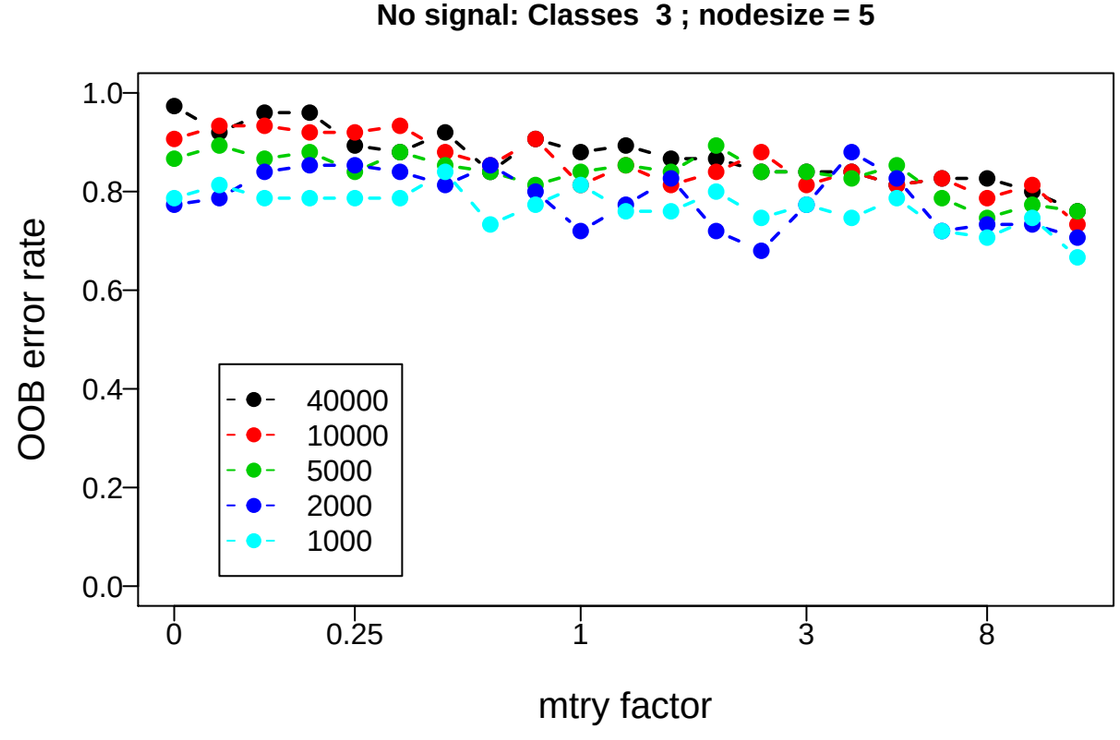

No signal: Classes 2 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

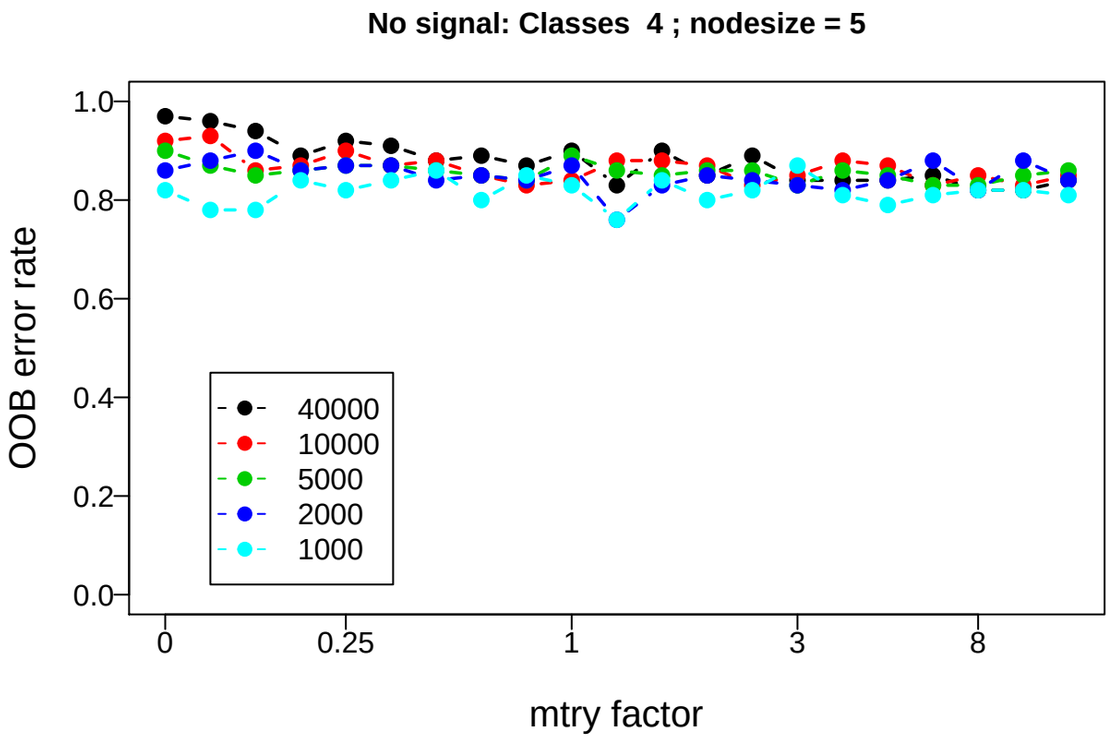

No signal: Classes 2 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

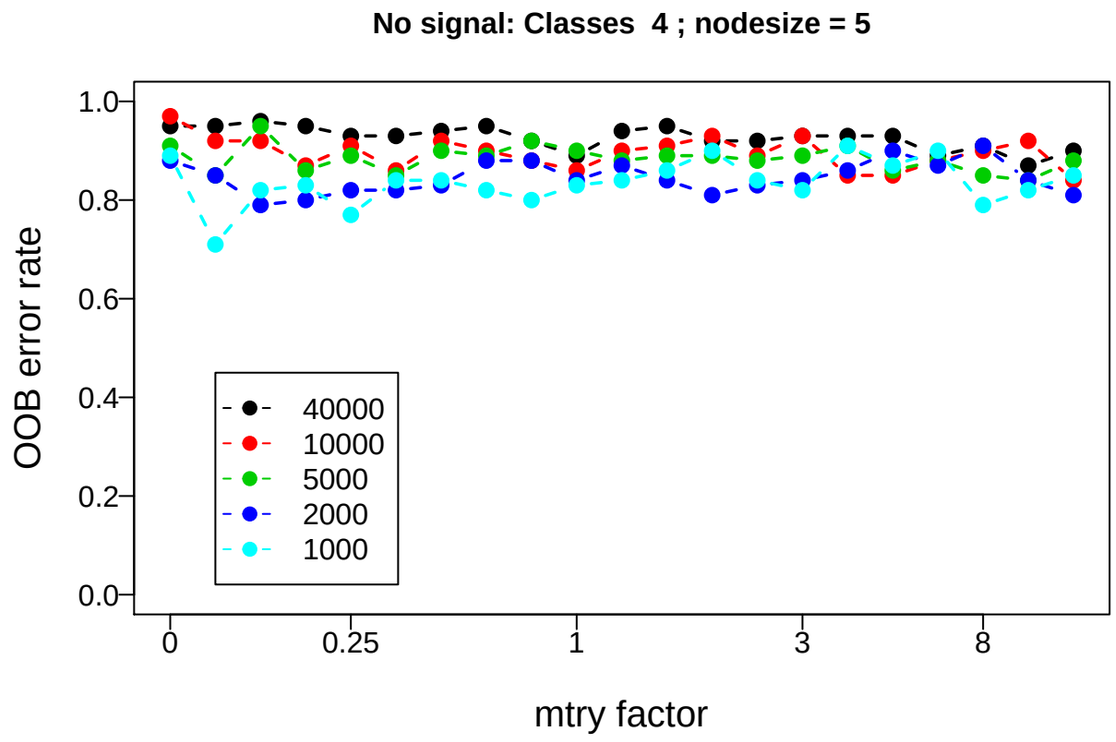

No signal: Classes 3 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

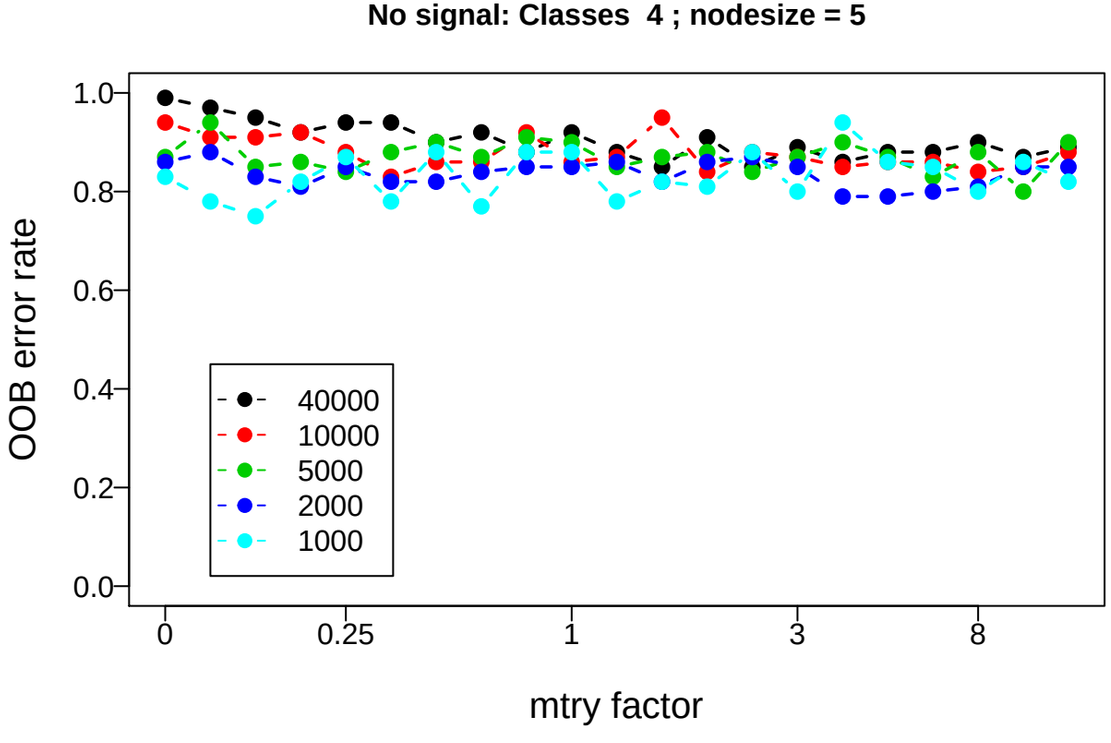

No signal: Classes 3 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

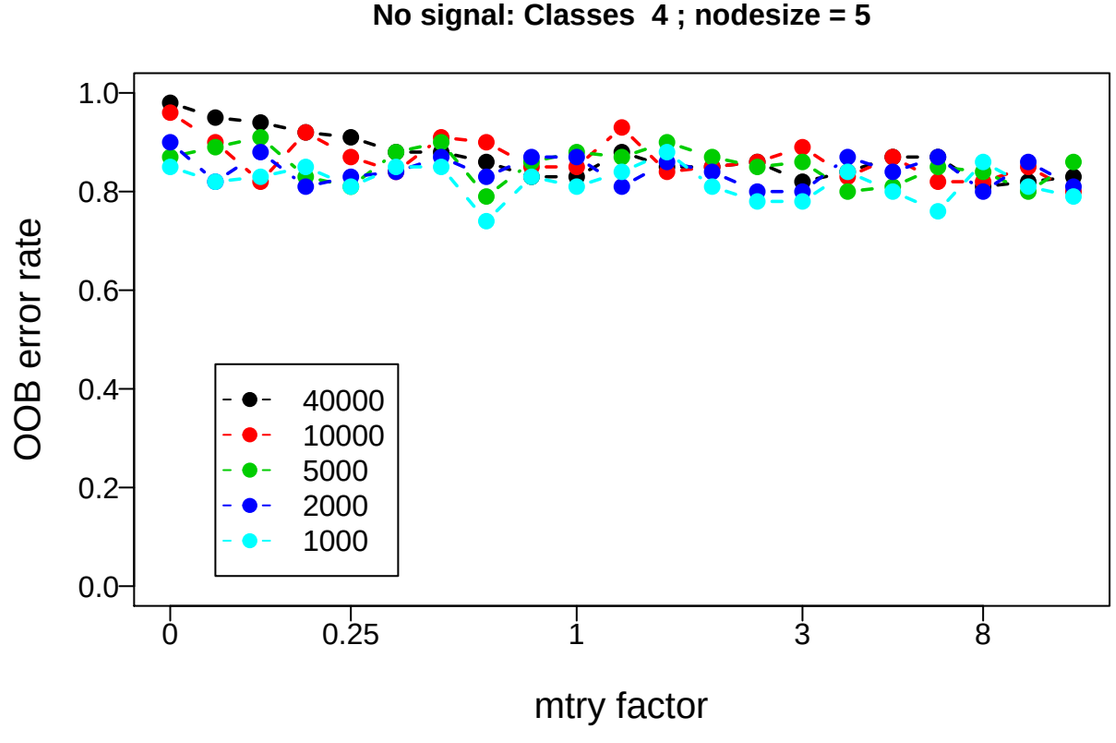

No signal: Classes 3 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor


No signal: Classes 3 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor


No signal: Classes 4 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

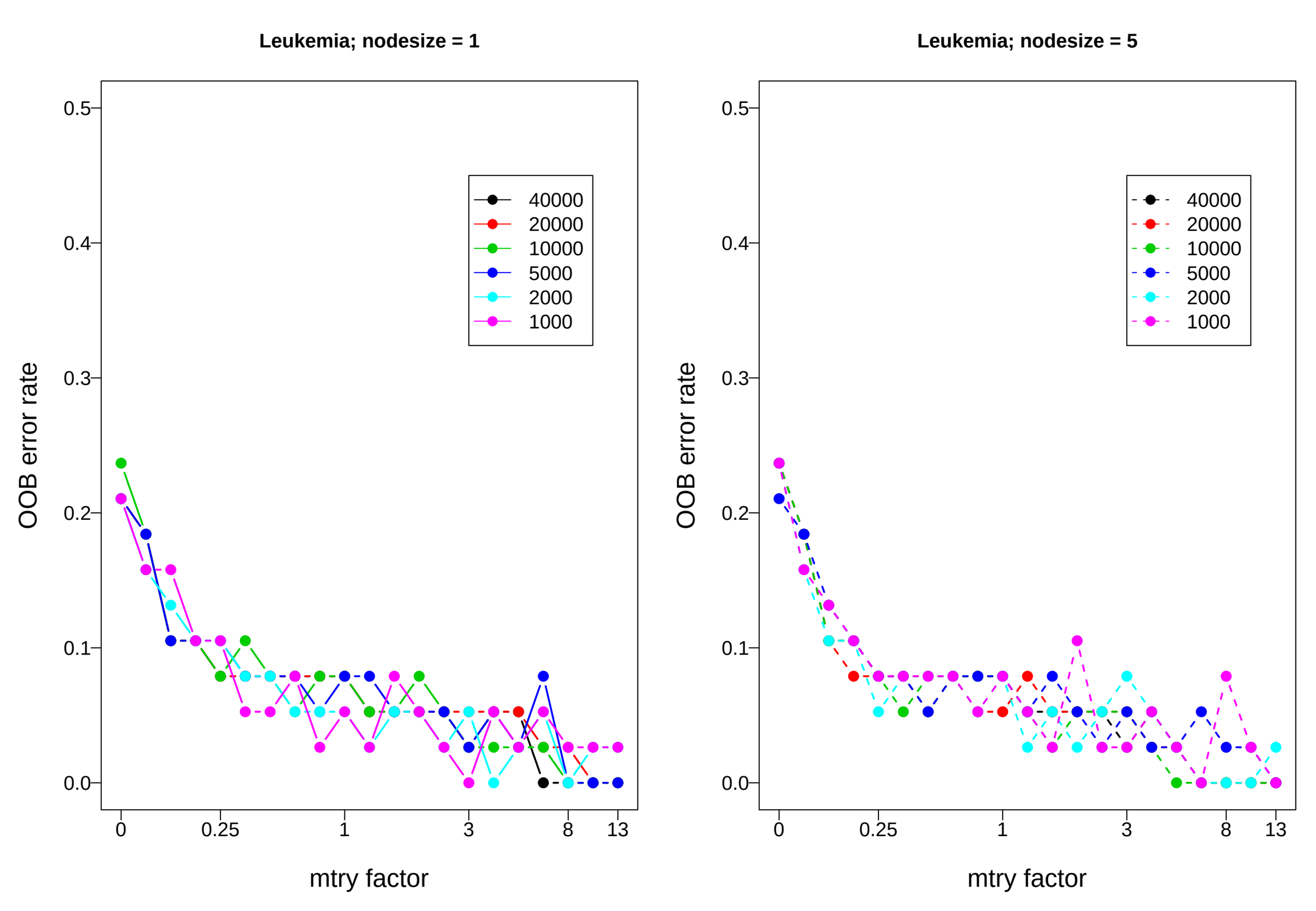

No signal: Classes 4 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

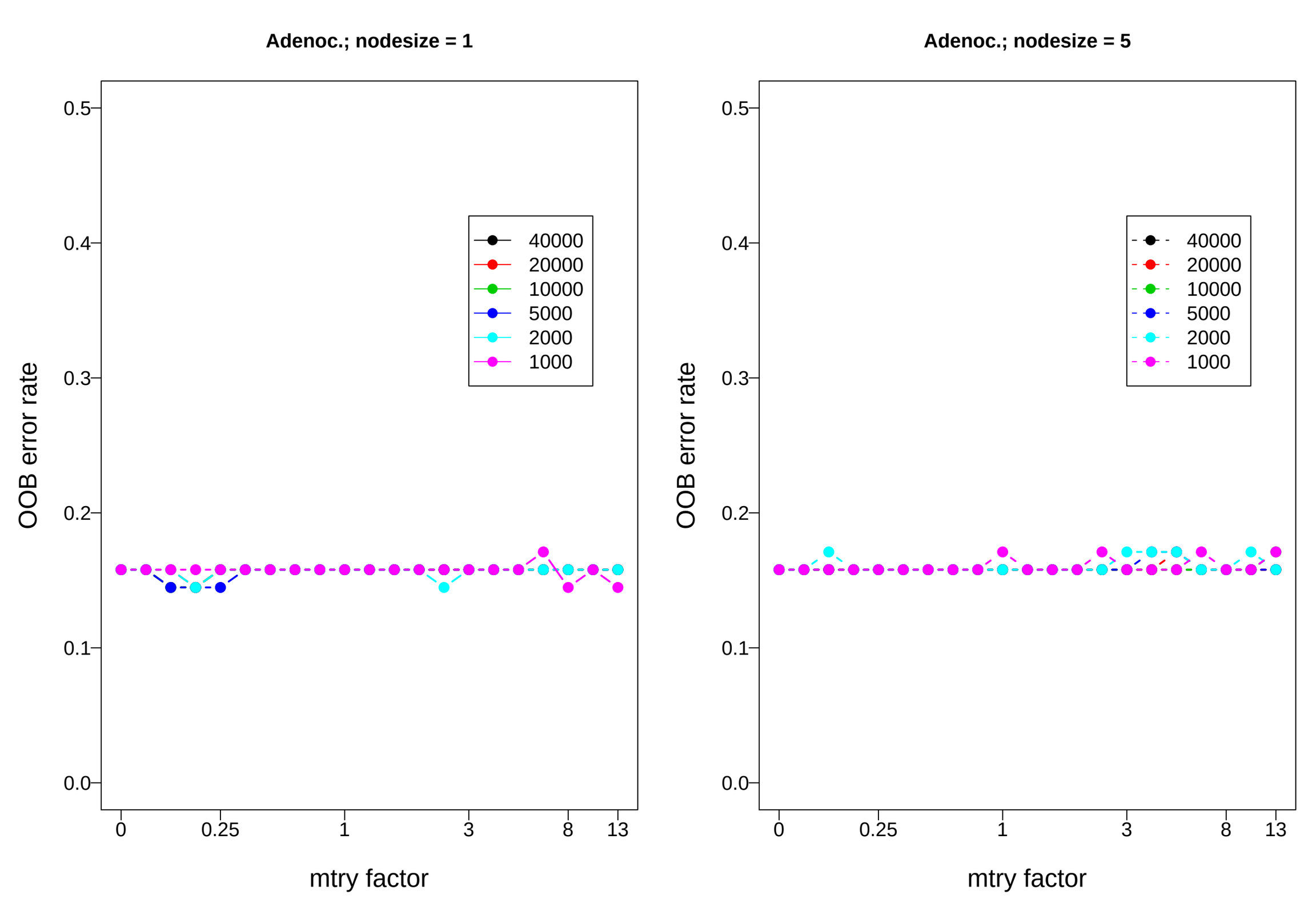

No signal: Classes 4 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

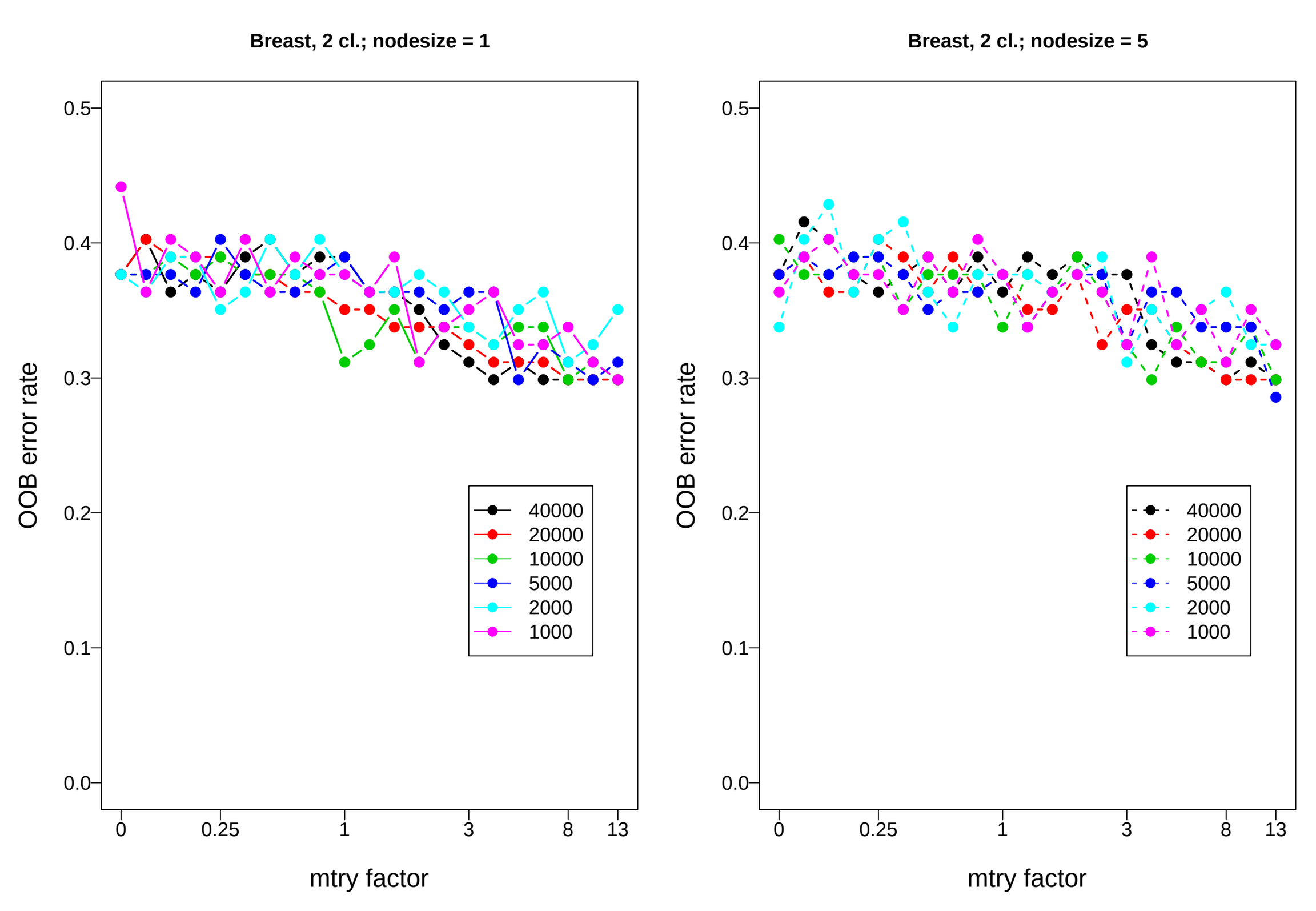

No signal: Classes 4 ; nodesize = 5
OOB error rate
1.0
0.8
0.6
0.4
0.2
0.0
40000
10000
5000
2000
1000
0
0.25
1
3
8
mtry factor

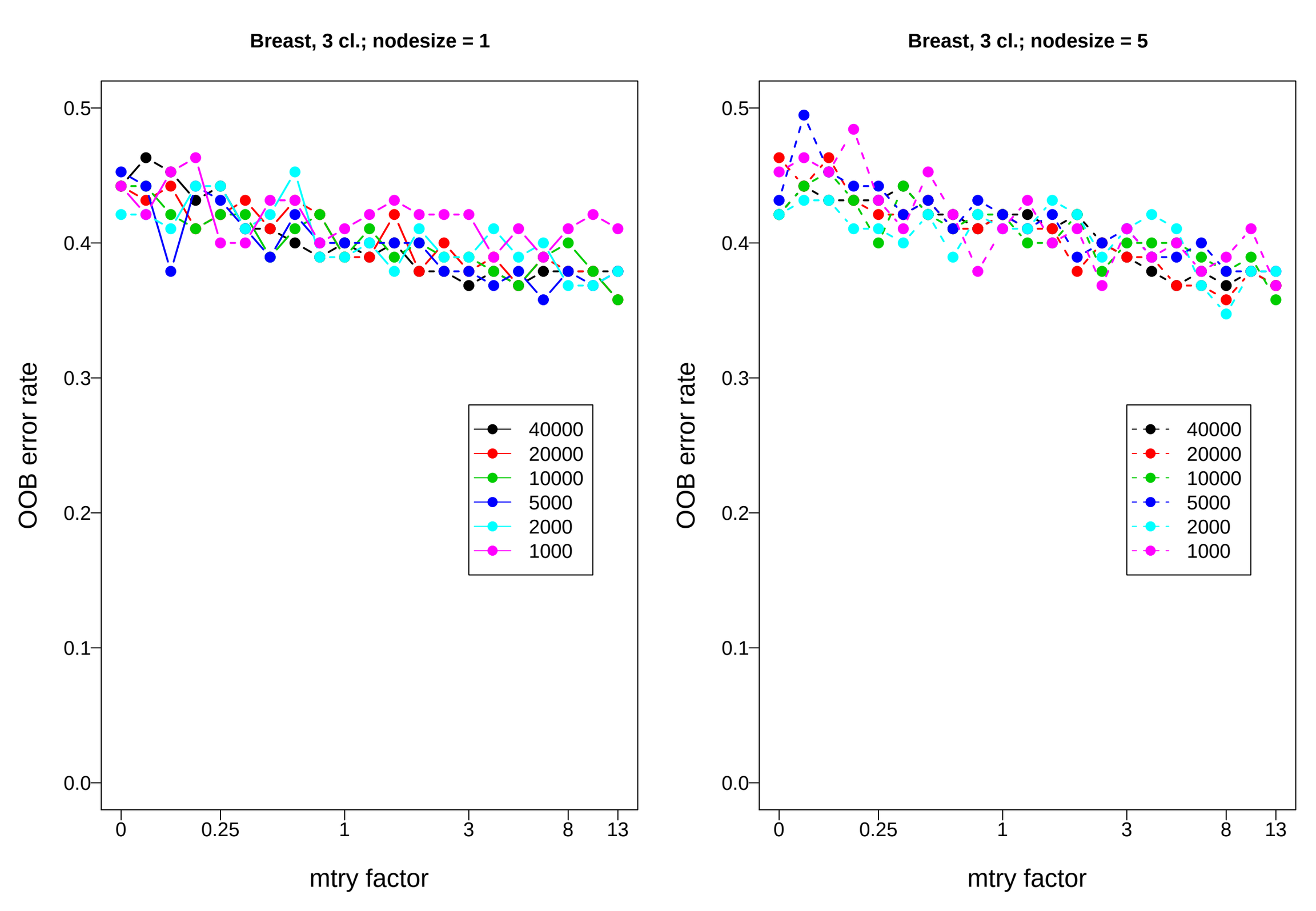
III: Real microarray data sets:

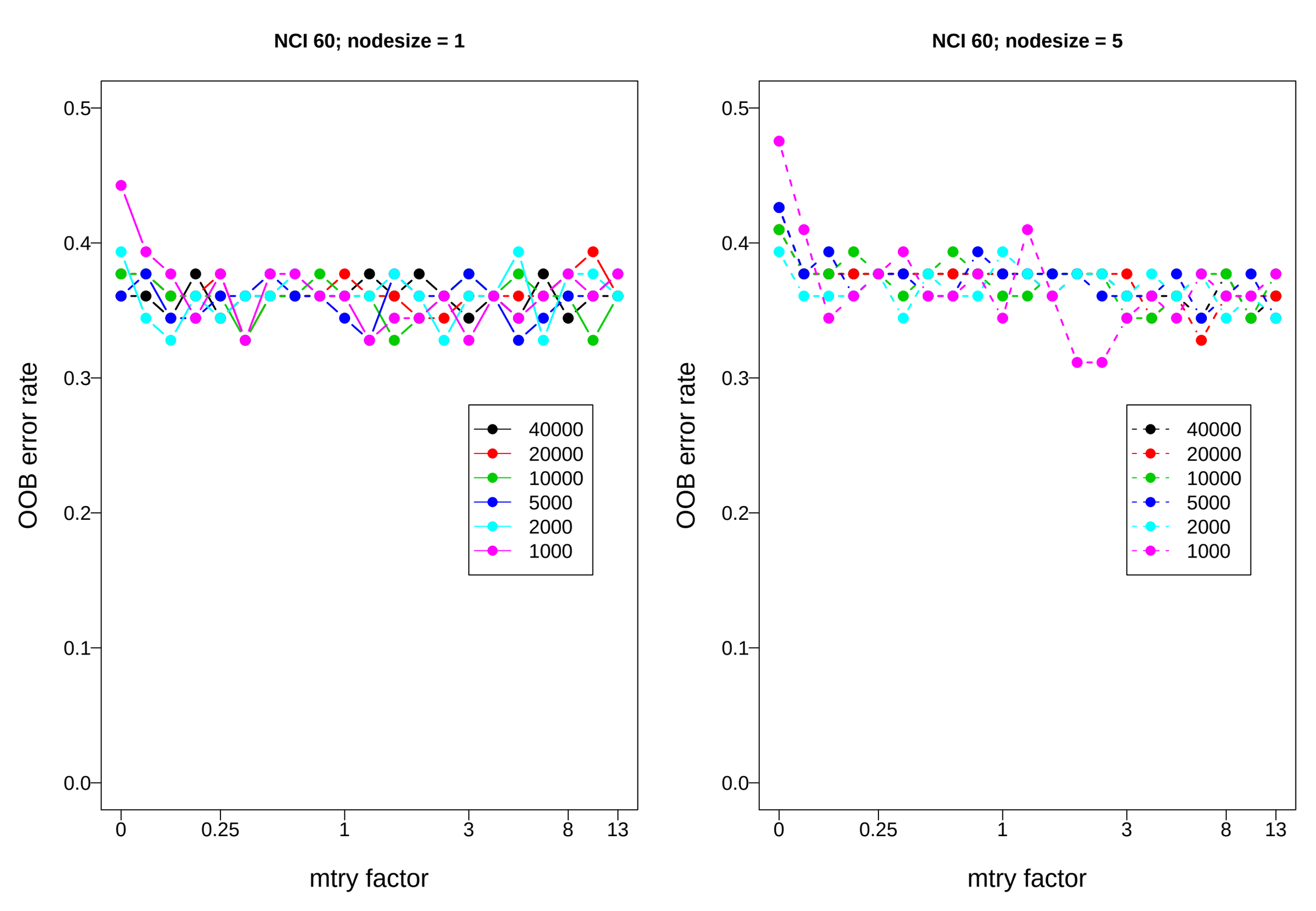
(left: nodesize = 1, right: nodesize = 5)

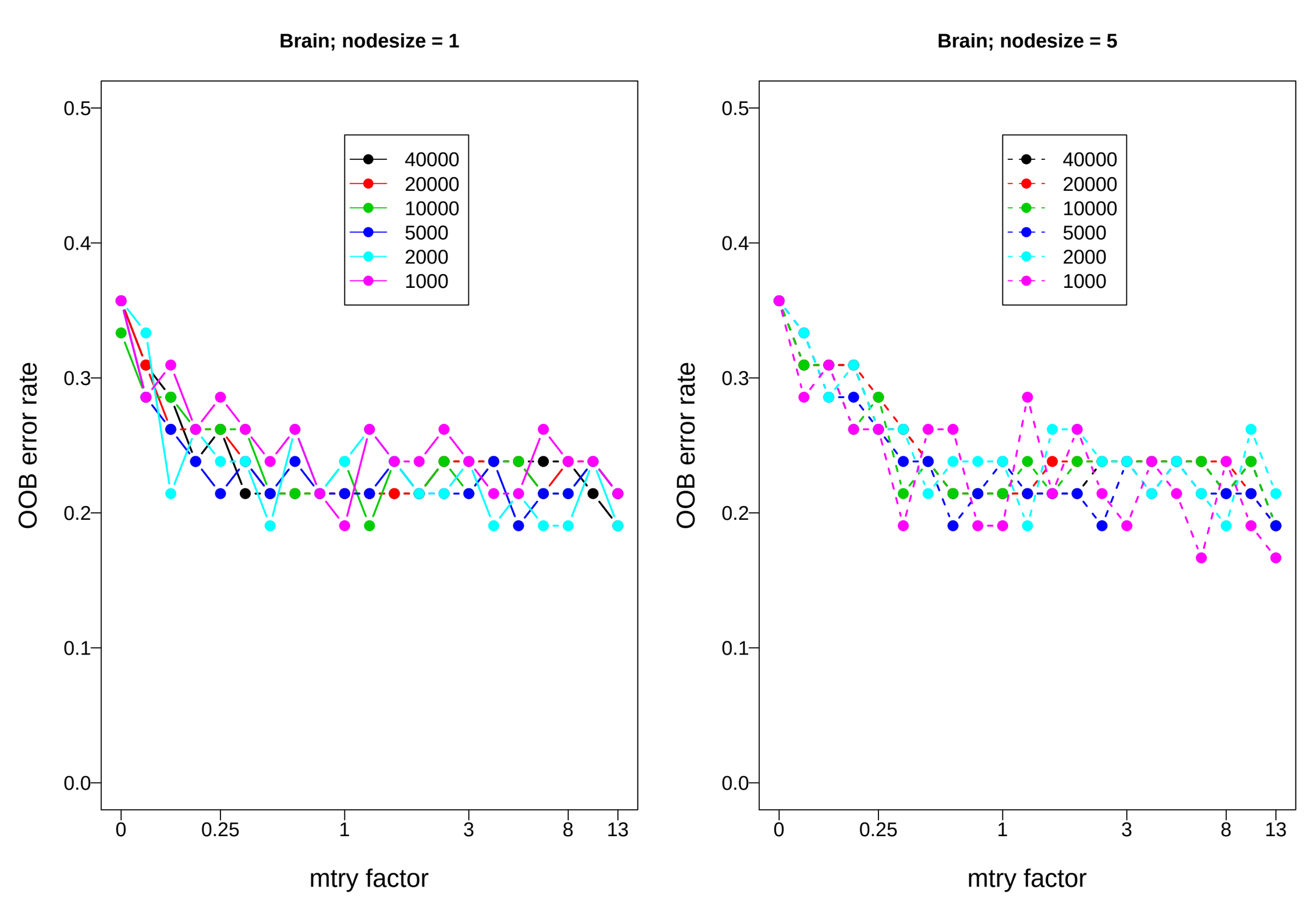

Leukemia; nodesize = 1
Leukemia; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000

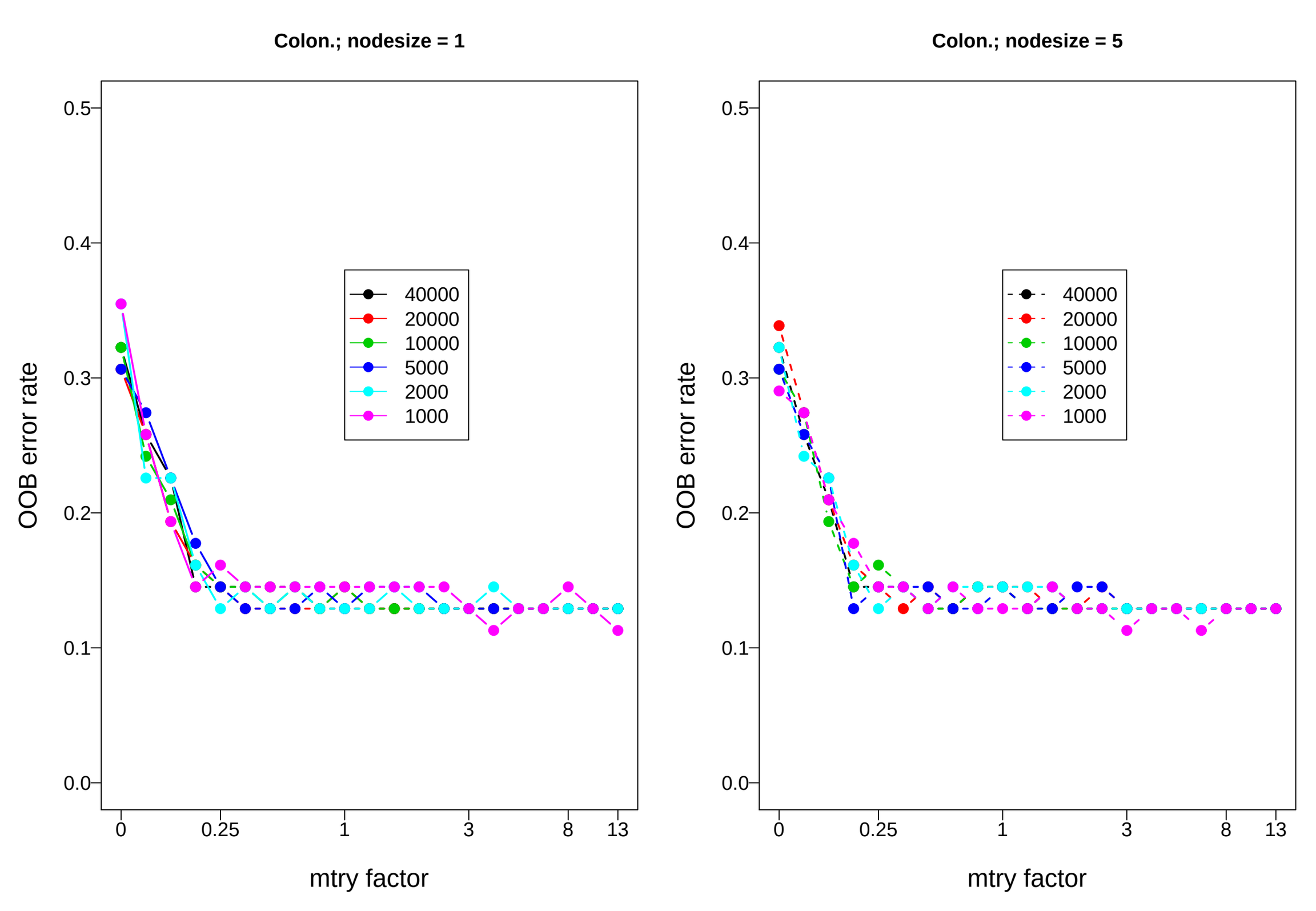

Adenoc.; nodesize = 1
Adenoc.; nodesize = 5
OOB error rate
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
mtry factor
40000
20000
10000
5000
2000
1000

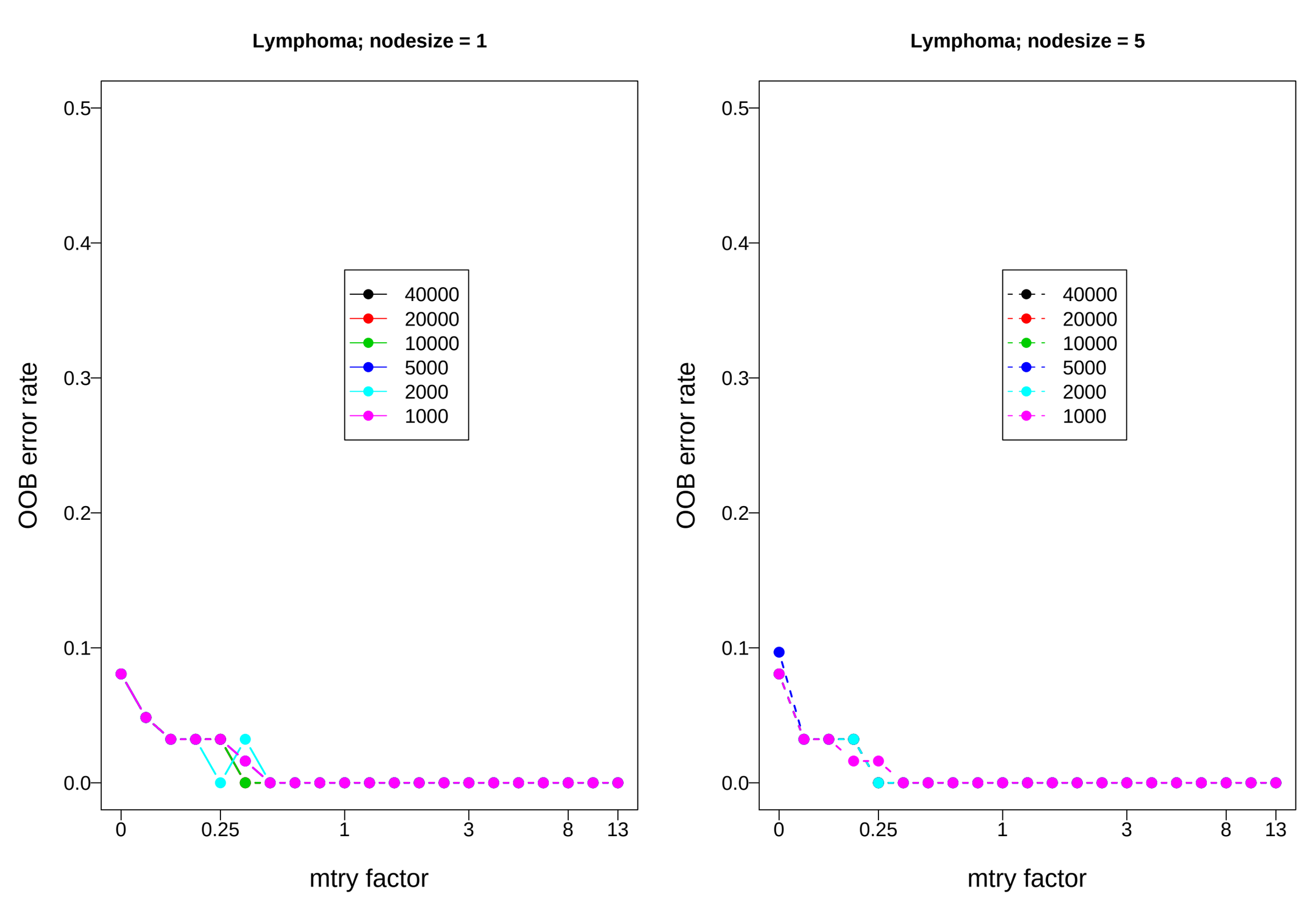

Breast, 2 cl.; nodesize = 1
Breast, 2 cl.; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000

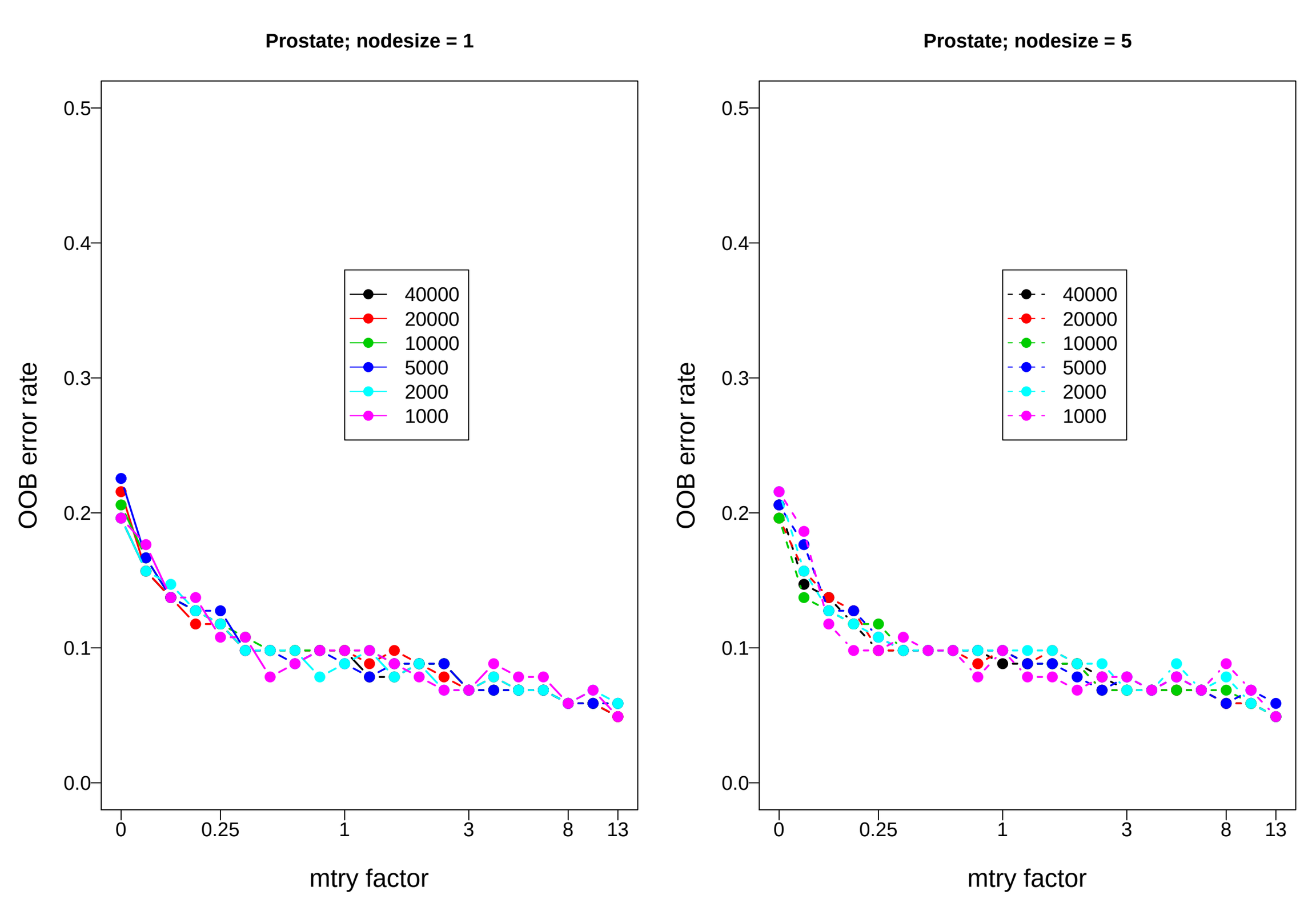

Breast, 3 cl.; nodesize = 1
Breast, 3 cl.; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000

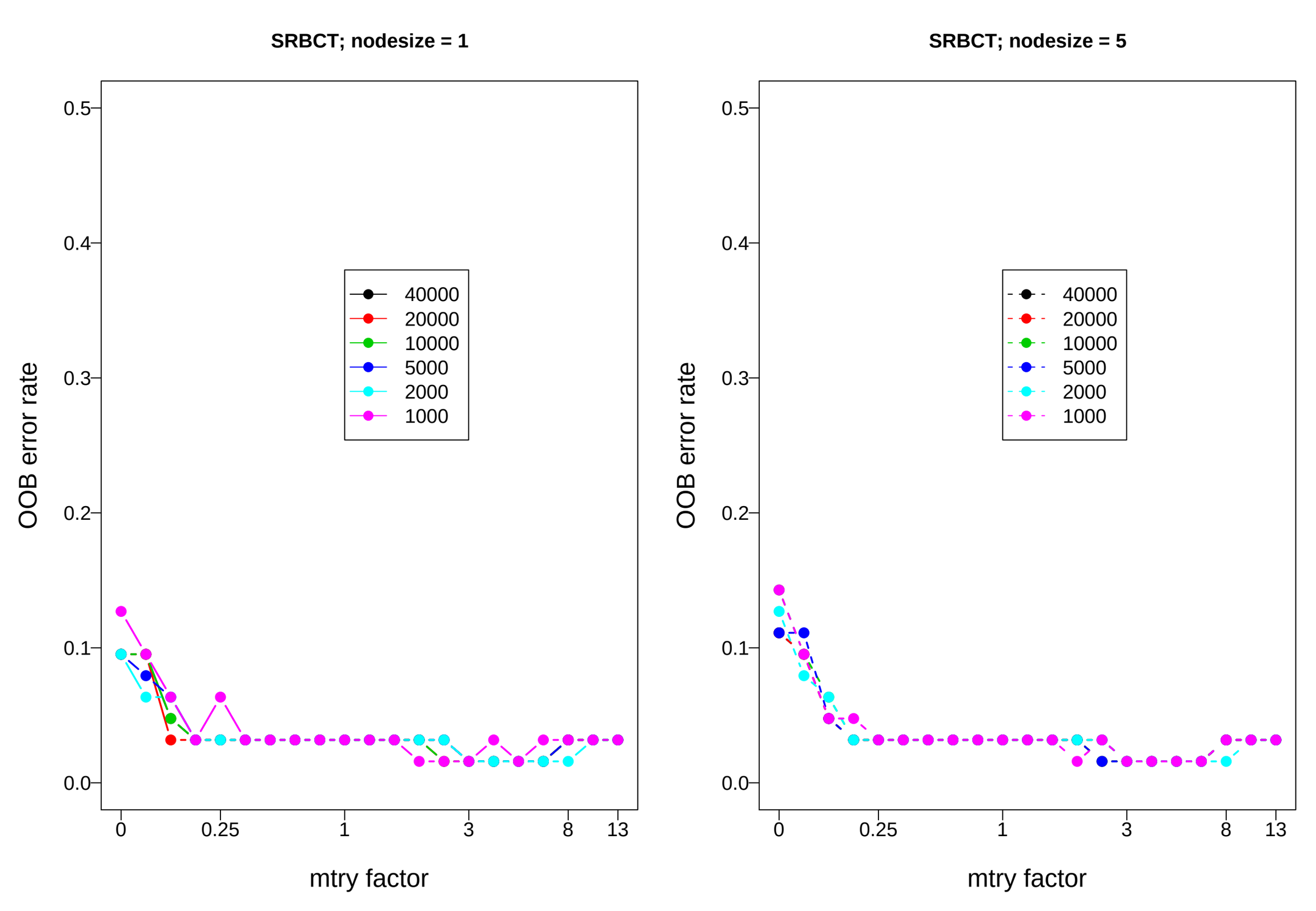

NCI 60; nodesize = 1
NCI 60; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000


Brain; nodesize = 1
Brain; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000


Colon.; nodesize = 1
Colon.; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000


Lymphoma; nodesize = 1
Lymphoma; nodesize = 5
OOB error rate
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
mtry factor
40000
20000
10000
5000
2000
1000


Prostate; nodesize = 1
Prostate; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000


SRBCT; nodesize = 1
SRBCT; nodesize = 5
OOB error rate
mtry factor
0.0
0.1
0.2
0.3
0.4
0.5
0
0.25
1
3
8
13
40000
20000
10000
5000
2000
1000