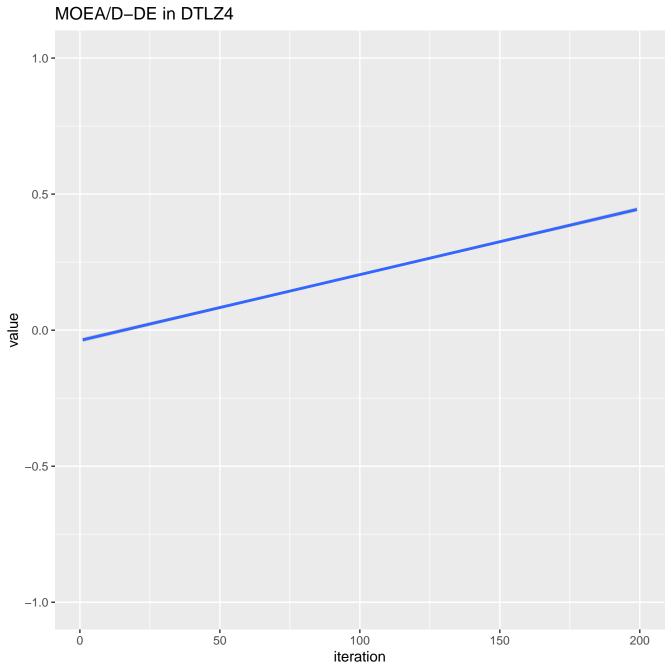
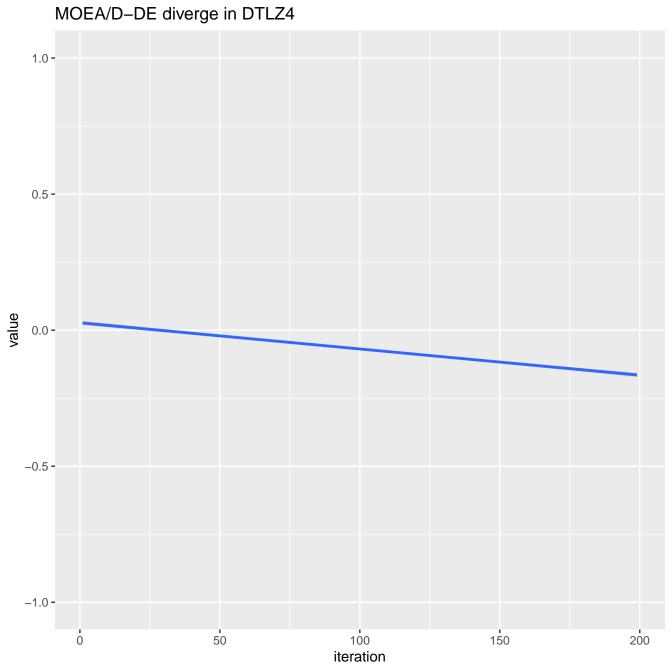


MOEA/D-PS with n = 50 in DTLZ4 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 1500 500 1000 2000 iteration

MOEA/D-PS with n = 100 in DTLZ4 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 750 250 500 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ4 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**10000 20000 30000 Ö iteration



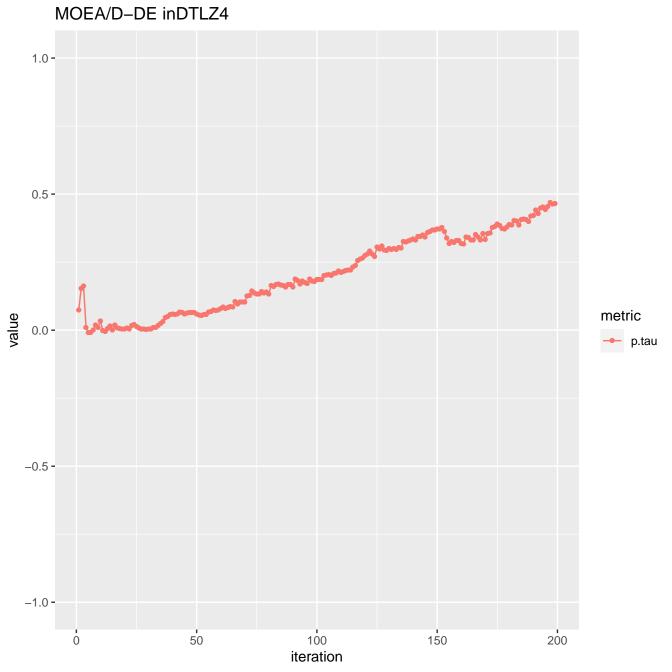


MOEA/D-PS with n = 3 in DTLZ4 1.0 -The shall be the source of the state of the 0.5 metric - 0.0 --0.5 **-**-1.0 **-**10000 20000 30000 Ö iteration

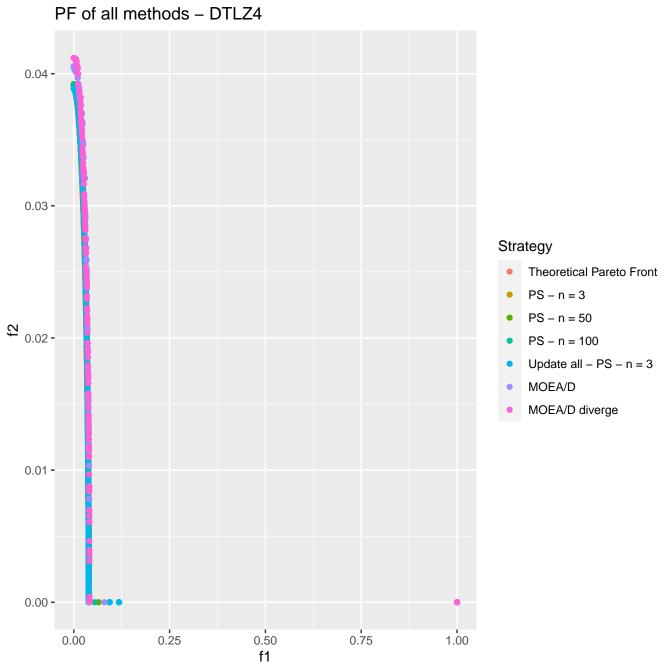
MOEA/D-PS with n = 50 in DTLZ4 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**0 500 1000 1500 2000 iteration

MOEA/D-PS with n = 100 in DTLZ4 1.0 -0.5 metric value value -0.5 **-**-1.0 **-**0 250 500 750 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ4 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**0 10000 20000 30000 iteration



MOEA/D-DE diverge inDTLZ4 1.0 -0.5 metric -0.5 **-**-1.0 **-**50 150 100 200 iteration

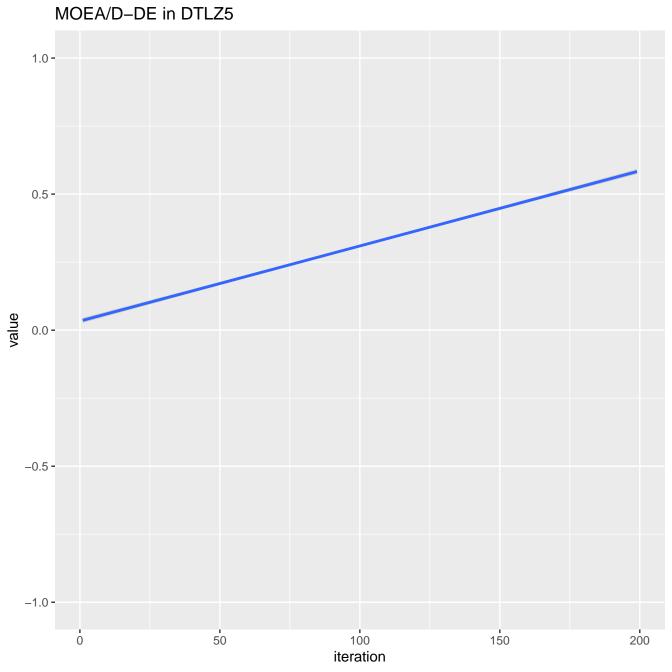


MOEA/D-PS with n = 3 in DTLZ5 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 10000 20000 30000 iteration

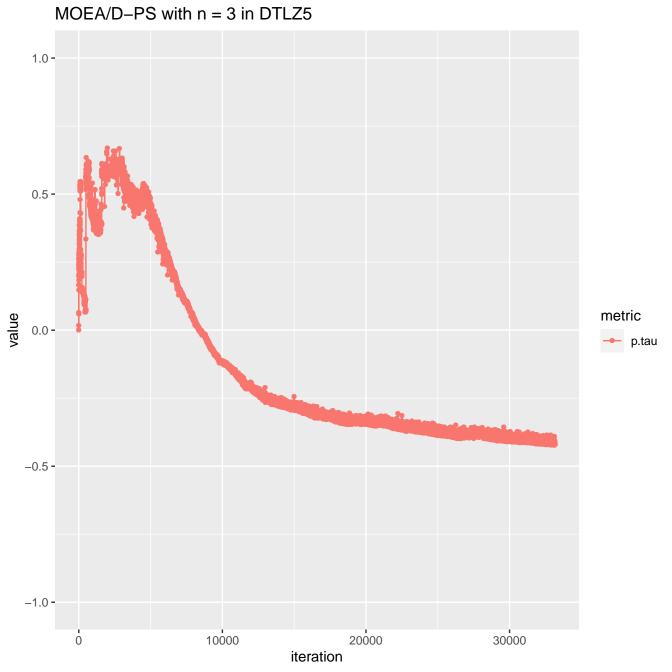
MOEA/D-PS with n = 50 in DTLZ5 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 1500 500 1000 2000 iteration

MOEA/D-PS with n = 100 in DTLZ5 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 750 250 500 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ5 1.0 -0.5 -- 0.0 **-**-0.5 **-**-1.0 **-**10000 20000 30000 Ö iteration



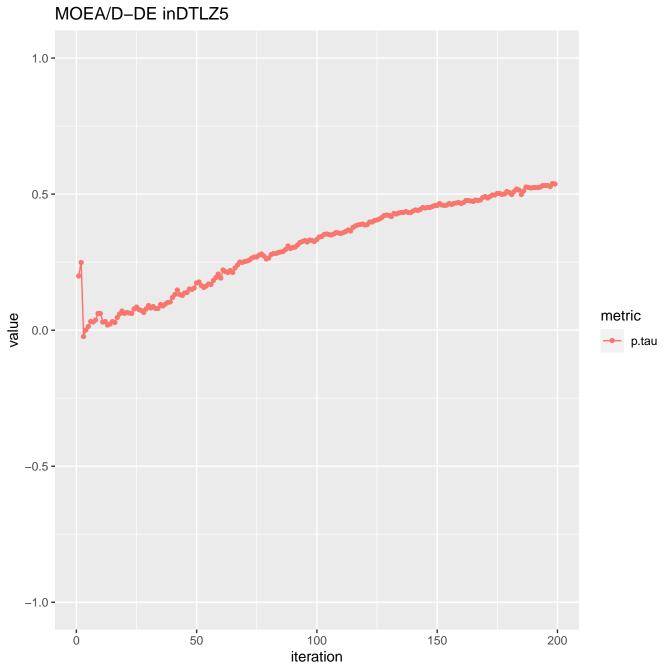
MOEA/D-DE diverge in DTLZ5 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 50 150 100 200 iteration



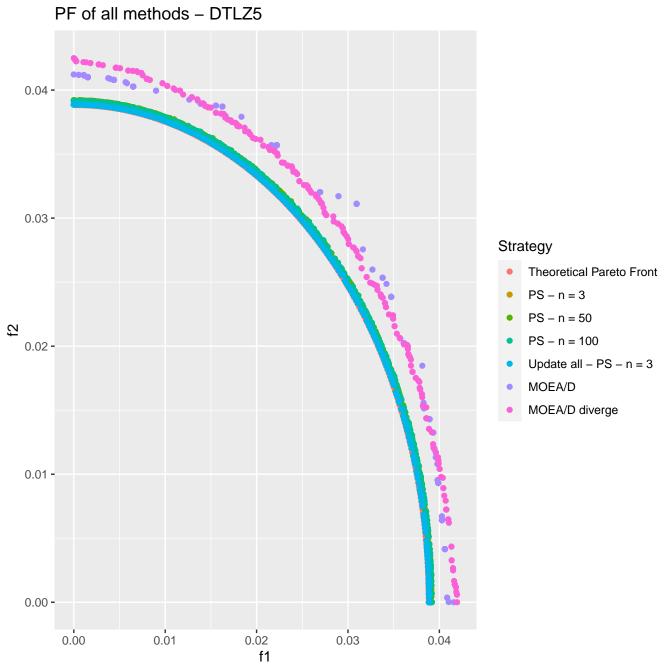
MOEA/D-PS with n = 50 in DTLZ5 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**0 500 1000 1500 2000 iteration

MOEA/D-PS with n = 100 in DTLZ5 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**0 250 500 750 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ5 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**0 10000 20000 30000 iteration



MOEA/D-DE diverge inDTLZ5 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**50 100 150 200 iteration

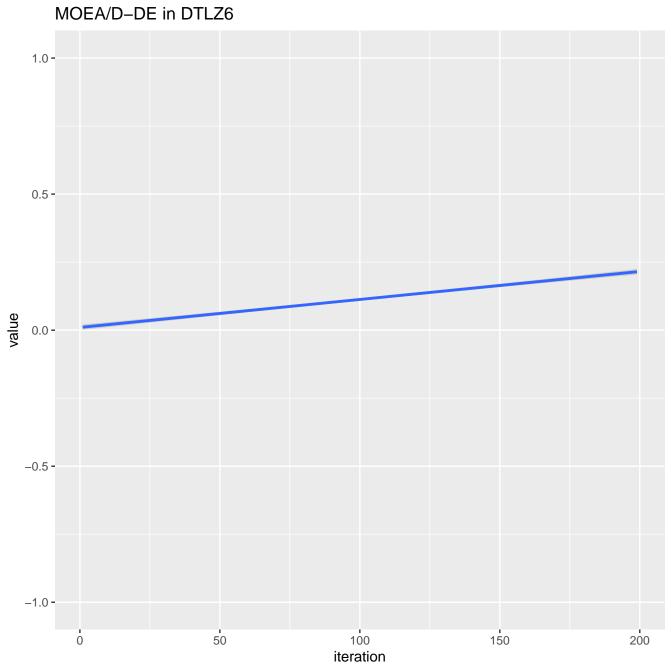


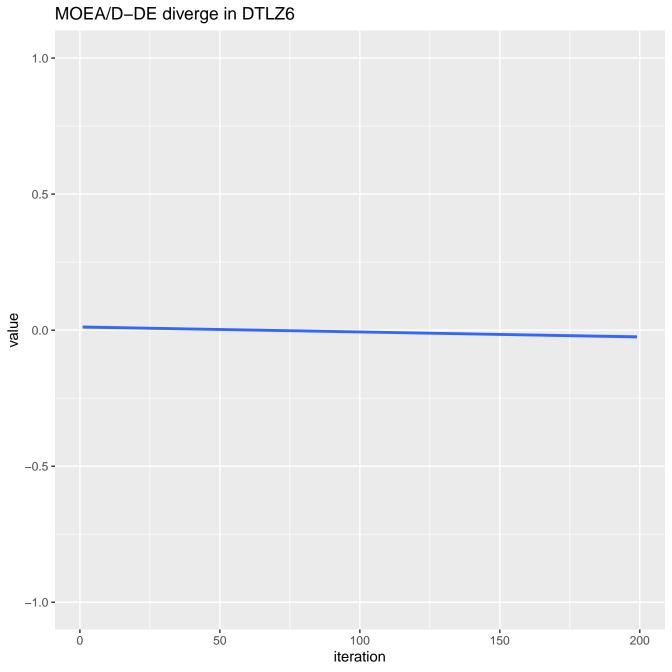
MOEA/D-PS with n = 3 in DTLZ6 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 10000 20000 30000 iteration

MOEA/D-PS with n = 50 in DTLZ6 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 1500 500 1000 2000 iteration

MOEA/D-PS with n = 100 in DTLZ6 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 750 250 500 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ6 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**10000 20000 30000 Ö iteration



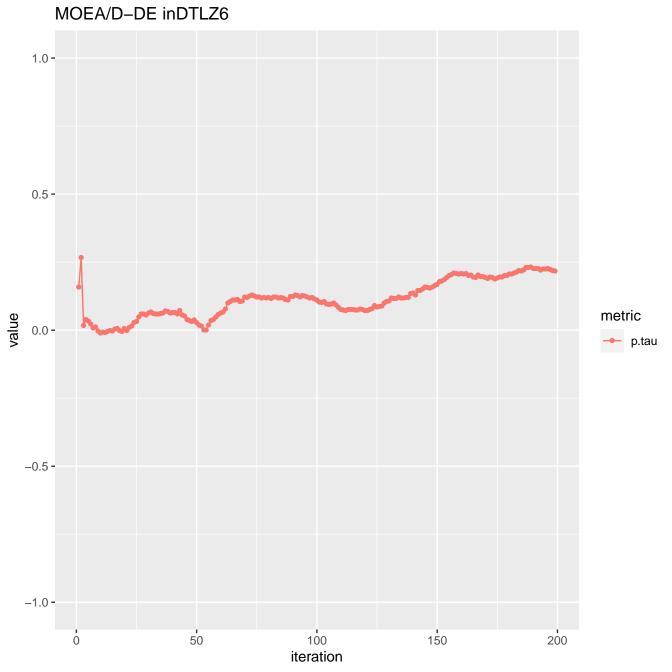


MOEA/D-PS with n = 3 in DTLZ6 1.0 -0.5 metric -0.5 --1.0 **-**10000 20000 30000 0 iteration

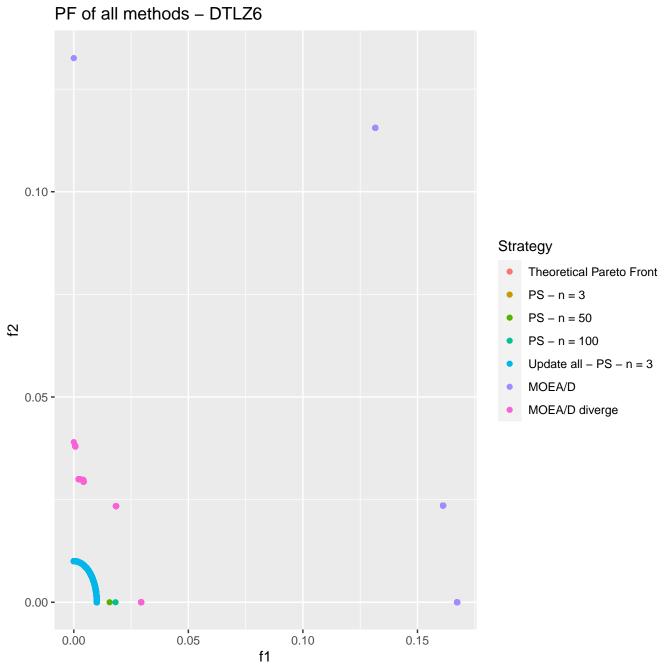
MOEA/D-PS with n = 50 in DTLZ6 1.0 -0.5 value value metric the little is the little in th -0.5 **-**-1.0 **-**500 1000 1500 2000 Ö iteration

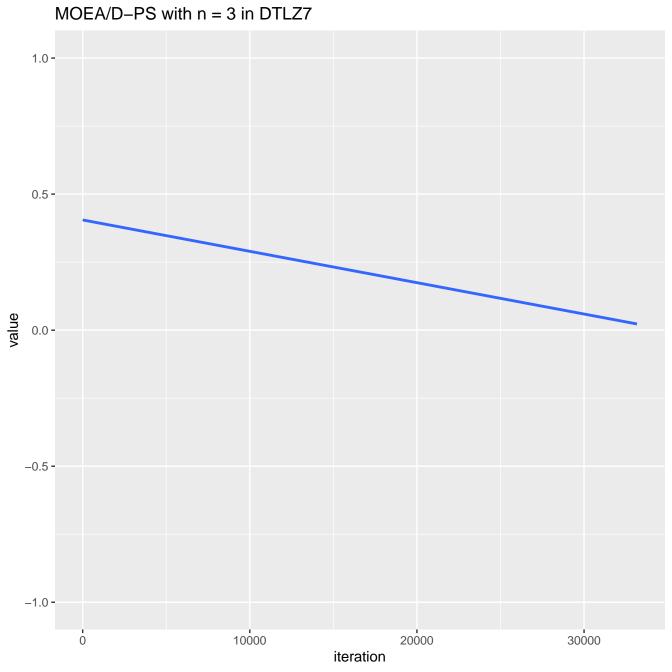
MOEA/D-PS with n = 100 in DTLZ6 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**0 250 500 750 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ6 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**10000 20000 30000 Ö iteration



MOEA/D-DE diverge inDTLZ6 1.0 -0.5 metric - 0.0 --0.5 **-**-1.0 **-**50 100 150 200 iteration

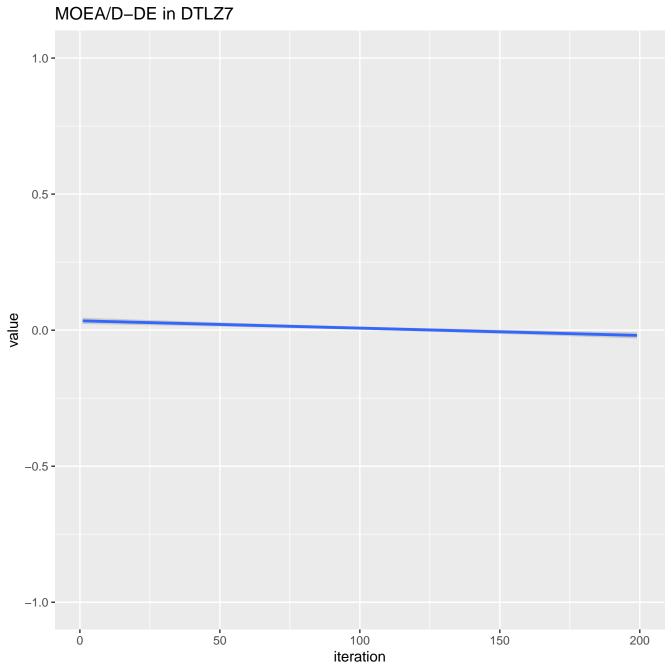


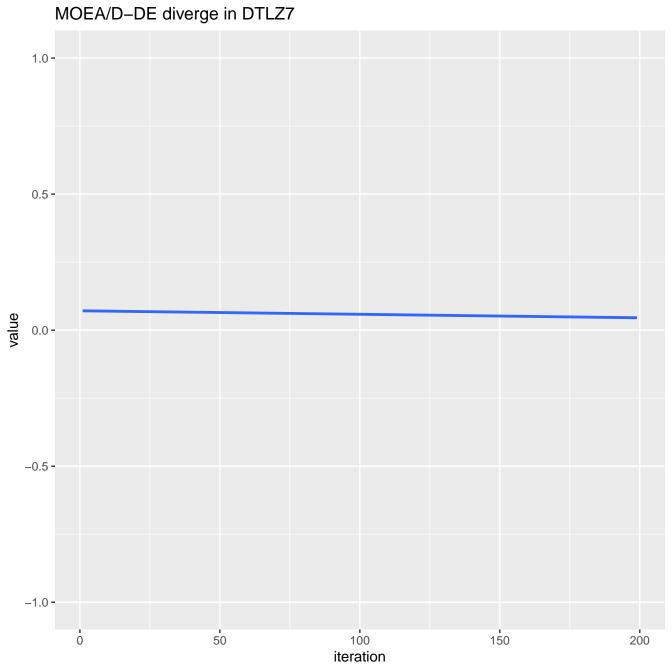


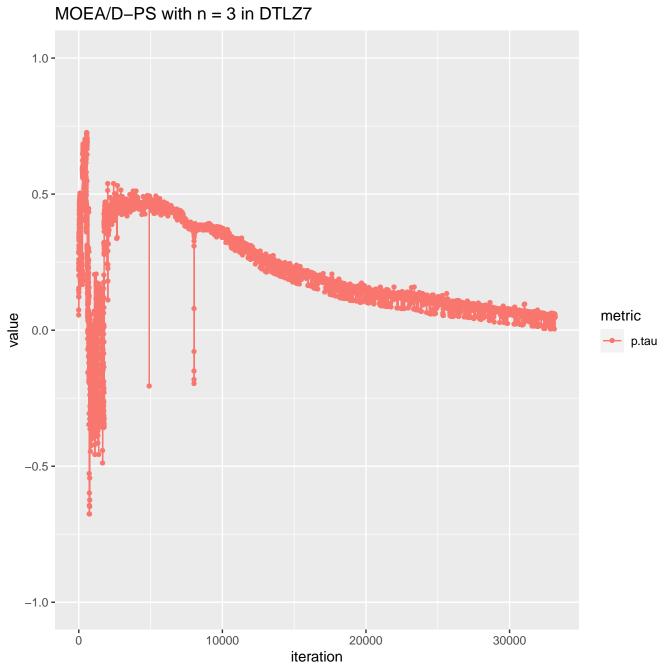
MOEA/D-PS with n = 50 in DTLZ7 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 1500 500 1000 2000 iteration

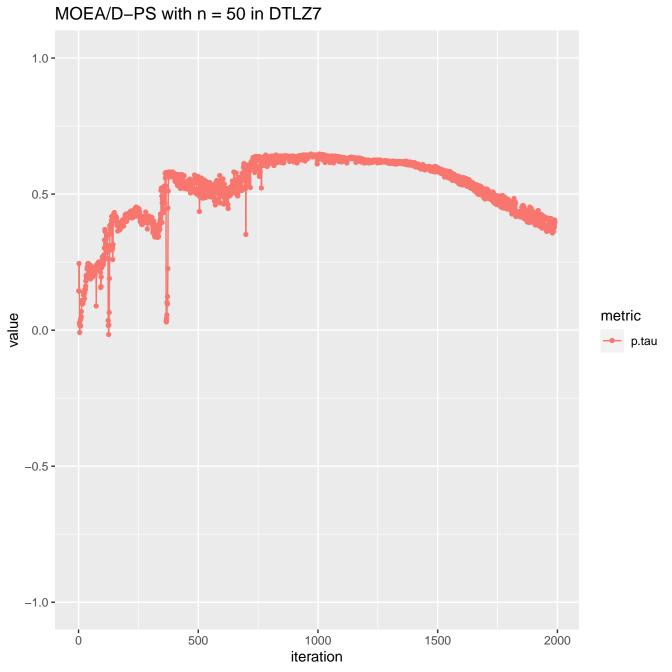
MOEA/D-PS with n = 100 in DTLZ7 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**0 750 250 500 1000 iteration

Update all in MOEA/D-PS with n = 3 in DTLZ7 1.0 -0.5 -- 0.0 --0.5 **-**-1.0 **-**10000 20000 30000 Ö iteration

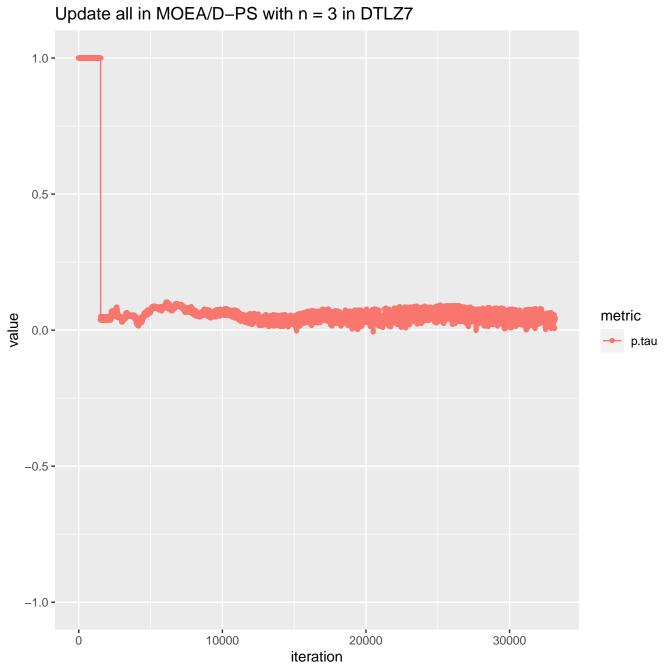


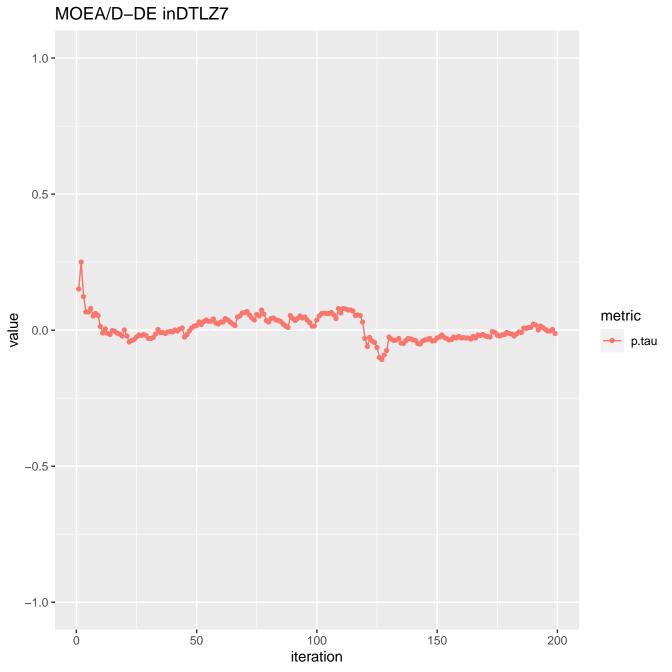






MOEA/D-PS with n = 100 in DTLZ7 1.0 -0.5 metric - 0.0 **-**-0.5 **-**-1.0 **-**0 250 750 500 1000 iteration





MOEA/D-DE diverge inDTLZ7 1.0 -0.5 metric - 0.0 **-**-0.5 **-**-1.0 **-**50 150 100 200 iteration

