1　3 1 Mandl6 GA Mutations 20210719 220507
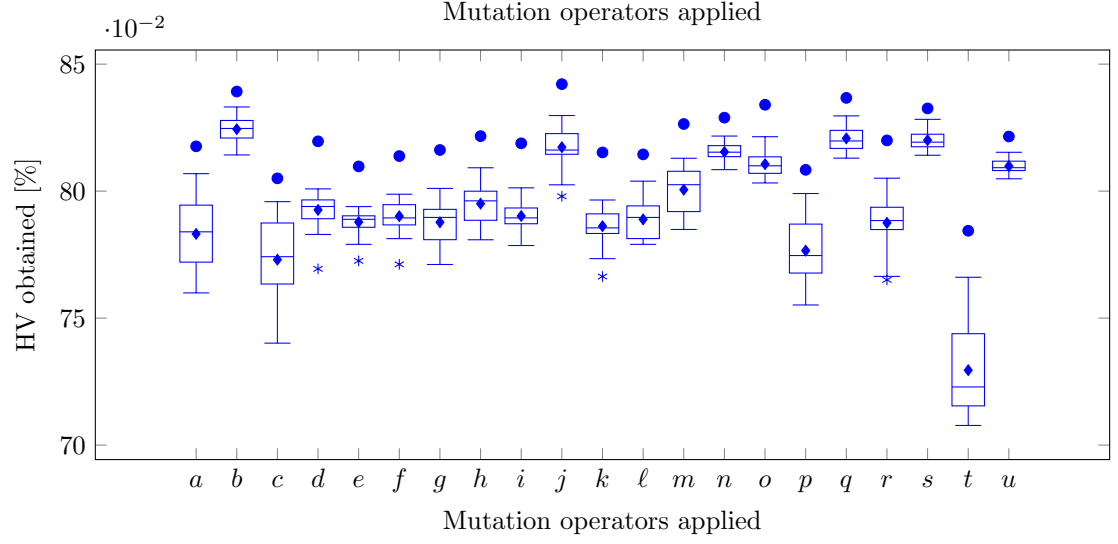
Mutation operators applied

Table 1: Legend for the boxplot.

Index	Name
0	[Intertwine_two]
1	[Add_vertex]
2	[Delete_vertex]
3	[Invert_path_vertices]
4	[Insert_inside_vertex]
5	[Delete_inside_vertex]
6	[Relocate_inside_vertex]
7	[Replace_inside_vertex]
8	[Donate_between_routes]
9	[Swap_between_routes]
10	[Merge_terminals]
11	[Repl_low_dem_route]
12	[Rem_low_dem_terminal]
13	[Rem_lrg_cost_terminal]
14	[Repl_subsets]
15	[Trim_one_terminal_cb]
16	[Trim_one_path_random_cb]
17	[Trim_routes_random_cb]
18	[Grow_one_terminal_cb]
19	[Grow_one_path_random_cb]
20	[Grow_routes_random_cb]

Table 2: Legend for the boxplot.

Index	Name
1	[Add_vertex]
2	[Delete_vertex]
4	[Insert_inside_vertex]
5	[Delete_inside_vertex]
3	[Invert_path_vertices]
6	[Relocate_inside_vertex]
7	[Replace_inside_vertex]
8	[Donate_between_routes]
9	[Swap_between_routes]
0	[Intertwine_two]
10	[Merge_terminals]
11	[Repl_low_dem_route]
14	[Repl_subsets]
12	[Rem_low_dem_terminal]
13	[Rem_lrg_cost_terminal]
18	[Grow_one_terminal_cb]
15	[Trim_one_terminal_cb]
19	[Grow_one_path_random_cb]
16	[Trim_one_path_random_cb]
20	[Grow_routes_random_cb]
17	[Trim_routes_random_cb]

Table 3: Coordinate conversion.

From	To	Adjustment
1	0	+1
2	1	+1
4	2	+1
5	3	+1
3	4	+1
6	5	+1
7	6	+1
8	7	+1
9	8	+1
0	9	+1
10	10	+1
11	11	+1
14	12	+1
12	13	+1
13	14	+1
18	15	+1
15	16	+1
19	17	+1
16	18	+1
20	19	+1
17	20	+1