Mutation ratios over all generations Intertwine_two Add vertex Delete vertex Invert path vertices 0.14 Insert inside vertex Delete inside vertex Replace_inside_vertex Donate_between_routes 0.12 Merge_terminals Trim one terminal cb Trim one path random cb Grow one terminal cb Mutation ratio Grow one path random cb 0.08 0.06 0.04 0 25 50 75 100 125 150 175 200 Generations