**costs**

Cost of the Path / Iterations
- Best Path Cost
- Mean Cost

**Diversity**

DIversity / Iterations
- diversity Indicator
- diversity mean

**k values**

k value / Iterations
- k_selection
- k_elimination

**Mutation and crossover probabilit**

Probability / Iterations
- meamMutation
- meamCrossover

```
populationsize = 200
#selection & elimination
init_k_selection = 5
k_selection = 3
init_k_elimination = 5
k_selection = 3
#mutation
init_mutation_proba = 0.9
percentageOfSwitches = 0.2
numberOfSwitchies = 50
#crossover
init_crossover_proba = 1

iterations = 500
genForConvergence = 5
stoppingConvergenceSlope = 0.0001
numberOfCities = 250

#diversity
sigma = 25
alpha = 3
sharedCost_percentageOfSearchSpace = 0.1
```

I: 356 meanObjective:154255.55246578154 bestObjective:149535.17201265768 diff:4720.380453123857
diversityIndicator:0.045204599999999984

mean_mutation:0.10000000000000007 mean_crossover0.7000000000000008
min_mutation:0.1 min_crossover:0.7

select_diversity:True elim_diveristy:False percentageCostSharing:0.8

LsoInit:False
LsoToParents:False LsoToWorstOnes:False LsoToRandomSubset:True
percentOfPopuLso:0.25

reDiversificationScheme:False
RandomHardMutationThenLso:True percentHardMutation = 0.2

TIME: selectTime:      0.37505494476704115=>49.460108301372415
TIME: LsoTime:         0.052952779812759226=>6.983110770675416
TIME: elimTime:        0.0653362073255389=>8.6161666054804
TIME: AssesQualityTime:0.2645449953132801=>34.88668607451117
TIME: ReDiversityTime:1.711122105630596e-06=>0.00022565302988853954
TIME: ReportTime:      0.0003962577059027854=>0.05225620758414129
TIME: Total iterTime:  0.7582978639709815=>100
TOTAL TIME:270.88946986198425