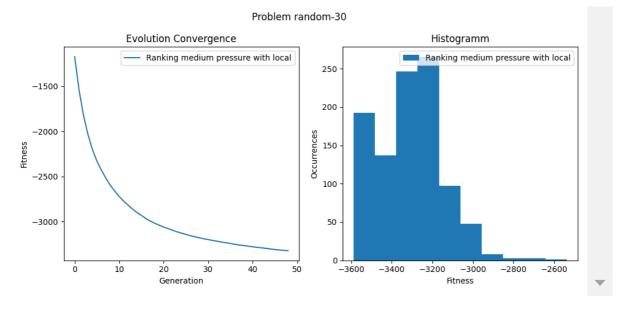
In [4]: ▶

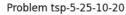
```
import qhea
import benchmark
problems = benchmark.get_names()
population size = 24
generation_count = 48
executions = 1000
params = [
qhea.Parameters(
population_size=population_size,
generation_count=generation_count,
local_strategy=qhea.LocalOptimization.SimAnnealingThermalRandom,
selection_strategy=qhea.Selection.Ranking,
selection_pressure=1.5,
),
]
names = ['Ranking medium pressure with local']
benchmark.analyze_and_display(params, executions, problems, names)
```

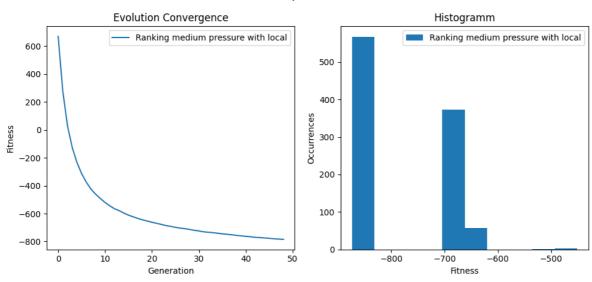
______ Algorithm was tested with 1 different parameter configurations For each parameter configuration, the algorithm was tested against these pro blems: ['random-30', 'tsp-5-25-10-20', 'tsp-5-25-10-100', 'tsp-5-25-1-5'] For each problem, the algorithm was executed 1000 times to collect data. Tested Parameter Configuration: Ranking medium pressure with local Population Size: Generation Count: 48 Mutation Rate: 0.05 Crossover Rate: 1 Selection Pressure: 1.5 Optimization Rate: 1 Adjust Parameters: False Annealing Size: Sub Problems: [[]]Init Strategy: Random Selection Strategy: Ranking Local Optimization: LocalOptimization.SimAnnealingThermalRandom Replacement Strategy: Replacement.ParentAndOffSpring



Parameters Accuracy Average Best Result Worst

National 13.4 -3321.705 -3588 -2536

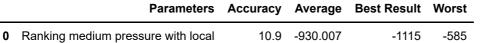


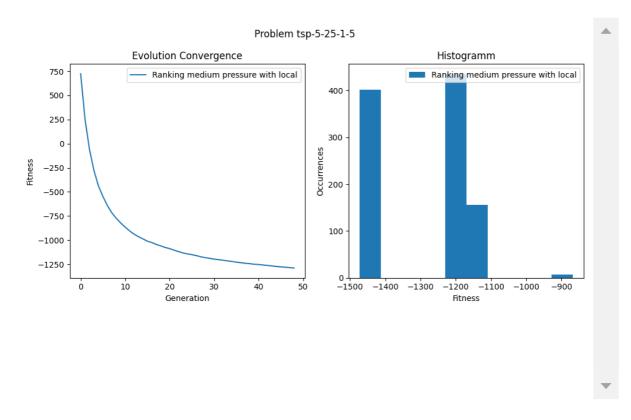


Parameters Accuracy Average Best Result Worst

Name of the parameters accuracy and the parameters accuracy and the parameters accuracy and the parameters accuracy accuracy accuracy and the parameters accuracy a

Problem tsp-5-25-10-100





	Parameters	Accuracy	Average	Best Result	Worst	
0	Ranking medium pressure with local	6.6	-1200 601	-1/173	-867	

C:\Users\bmeins\Desktop\Master Arbeit\code\annealing\classic.py:27: RuntimeW
arning: overflow encountered in exp
 x = update_weights @ np.array([x, 1 / (1 + np.exp(potential / temperatur
e))])

In []: