Bhuvana Kanakam
SE21UCSE035

Differential Evolution

0.1 Eggholder function

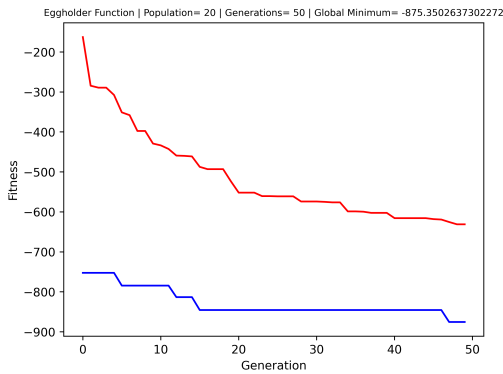**Fitness results of the Eggholder function for Generation 50, 100 and 200**

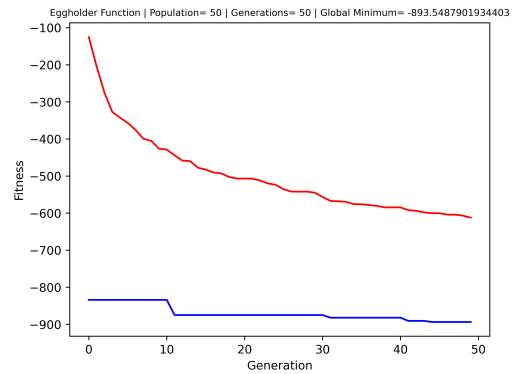Figure 1: Population 20, Gen 50

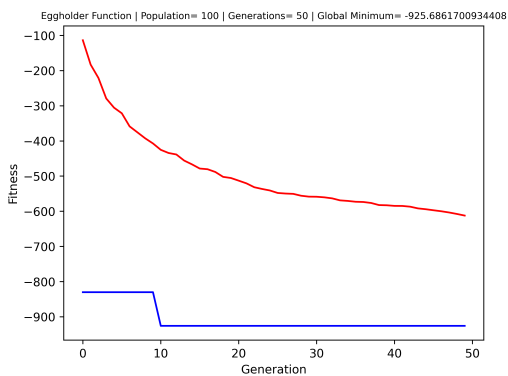Figure 2: Population 50, Gen 50

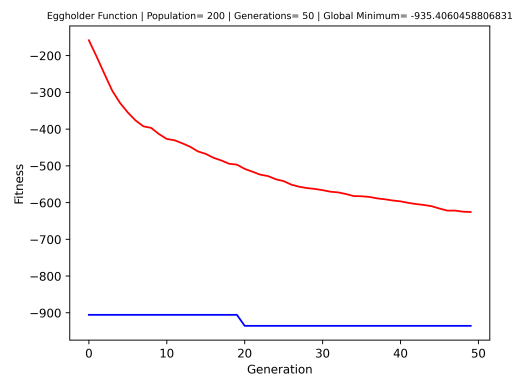Figure 3: Population 100, Gen 50
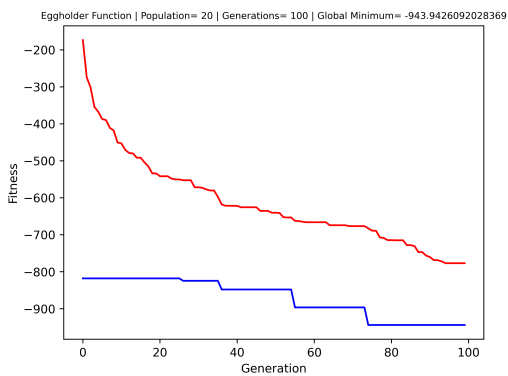

Figure 4: Population 200, Gen 50
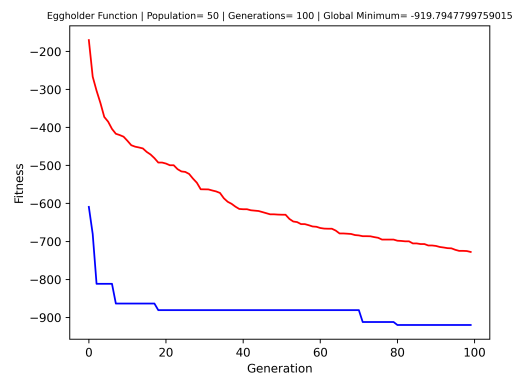

Figure 5: Population 20, Gen 100
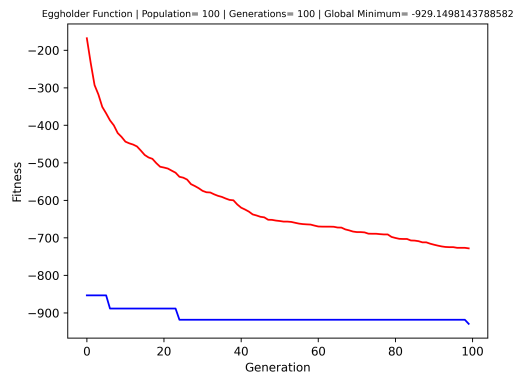

Figure 6: Population 50, Gen 100

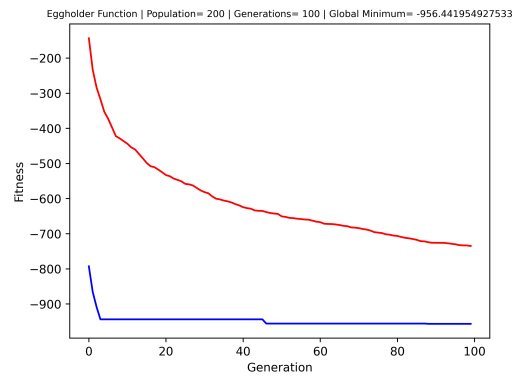Figure 7: Population 100, Gen 100

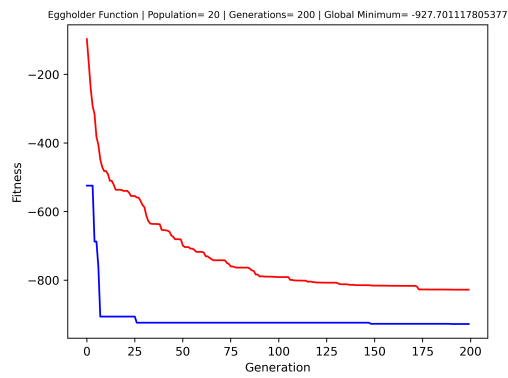Figure 8: Population 200, Gen 100
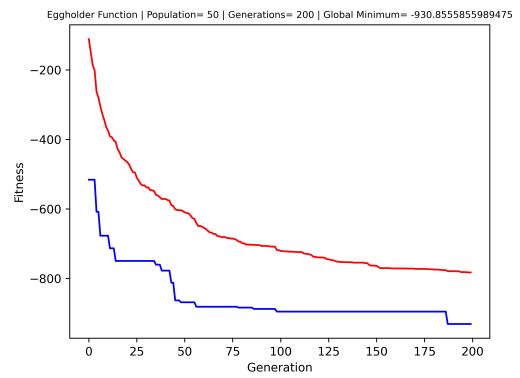

Figure 9: Population 20, Gen 200
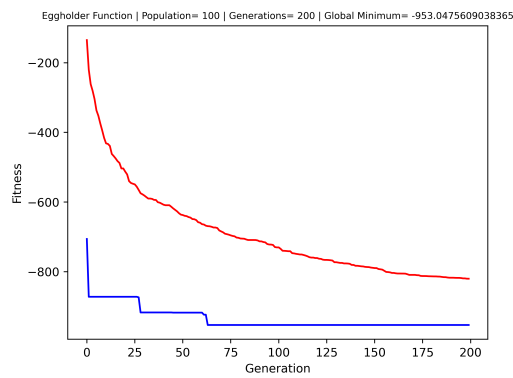

Figure 10: Population 50, Gen 200

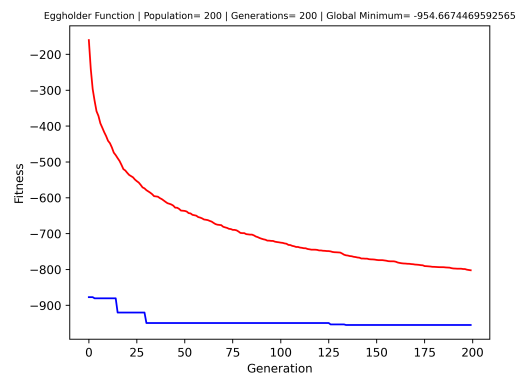Figure 11: Population 100, Gen 200

Figure 12: Population 200, Gen 200

0.2 Holder Table function

Fitness results of the Eggholder function for Generation 50, 100 and 200
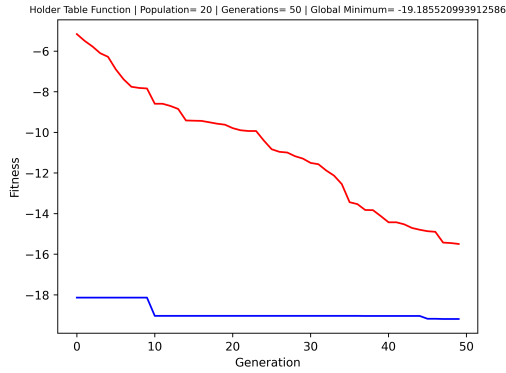

Figure 13: Population 20, Gen 50
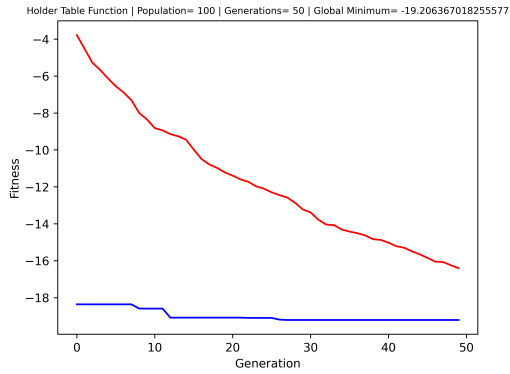

Figure 14: Population 50, Gen 50
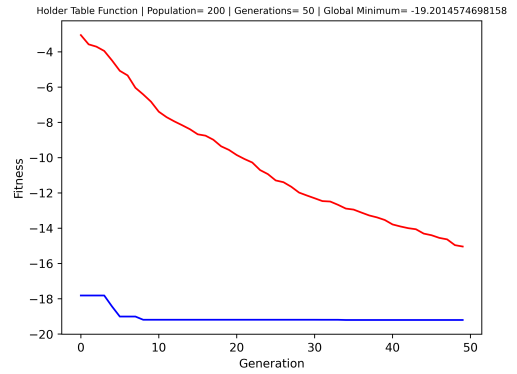

Figure 15: Population 100, Gen 50
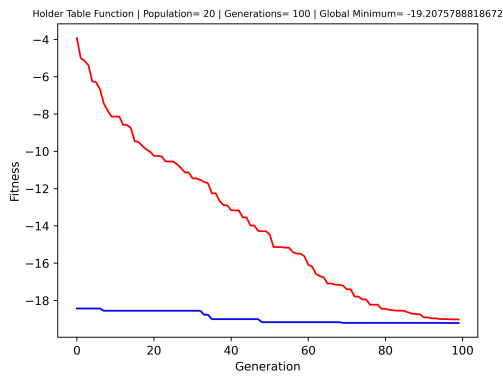

Figure 16: Population 200, Gen 50

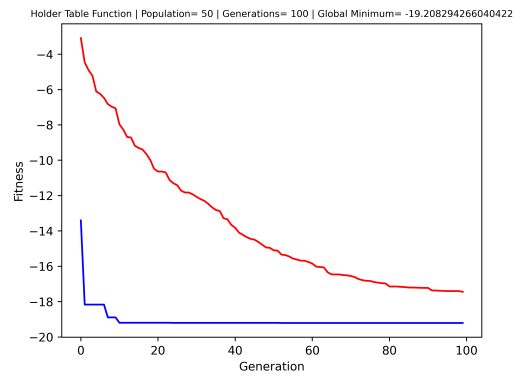Figure 17: Population 20, Gen 100

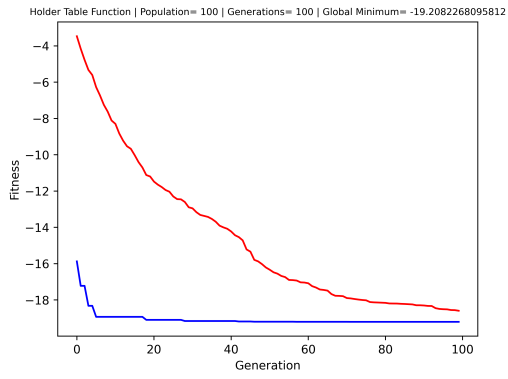

Figure 18: Population 50, Gen 100
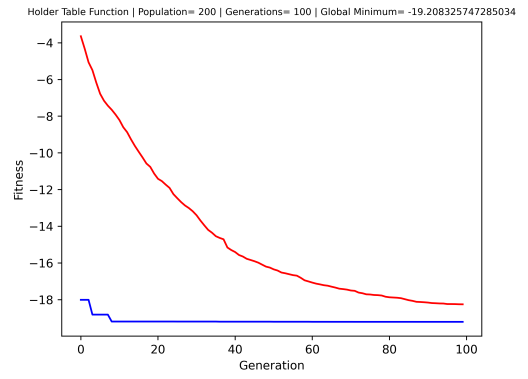
Figure 19: Population 100, Gen 100

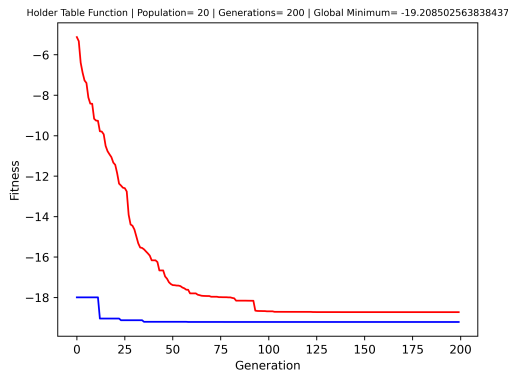Figure 20: Population 200, Gen 100

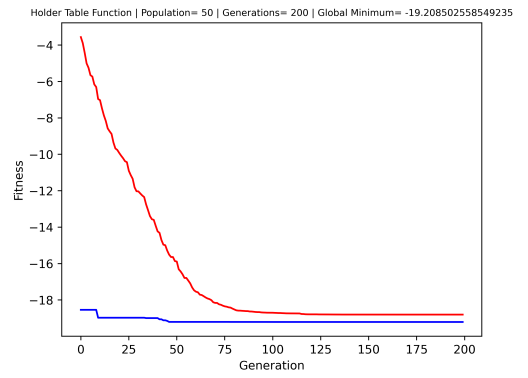Figure 21: Population 20, Gen 200

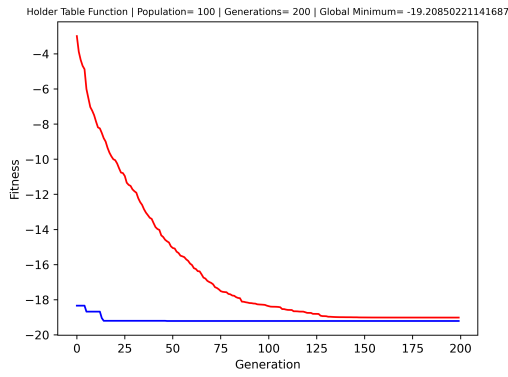

Figure 22: Population 50, Gen 200
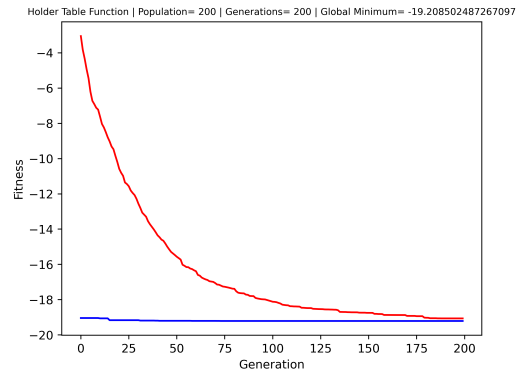

Figure 23: Population 100, Gen 200

Figure 24: Population 200, Gen 200

Particle Swarm Optimization

0.3 Eggholder function

Fitness results of the Eggholder function for Generation 50, 100 and 200
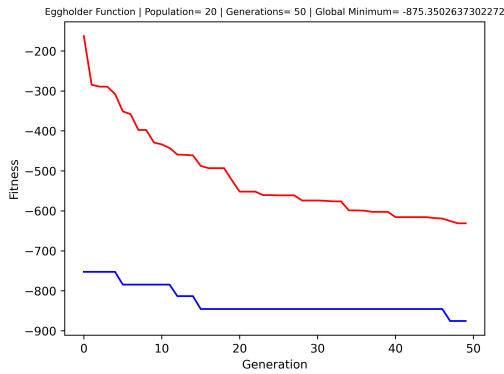

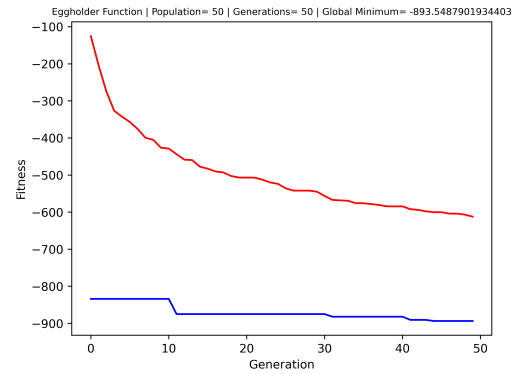Figure 25: Population 20, Gen 50
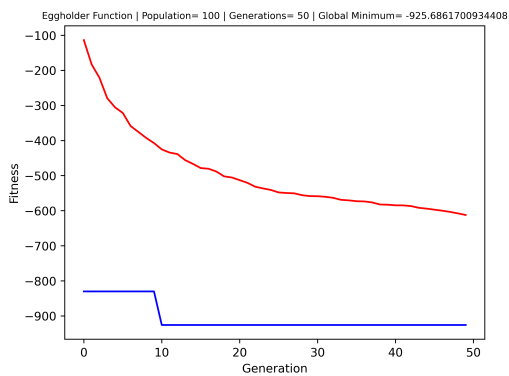

Figure 26: Population 50, Gen 50
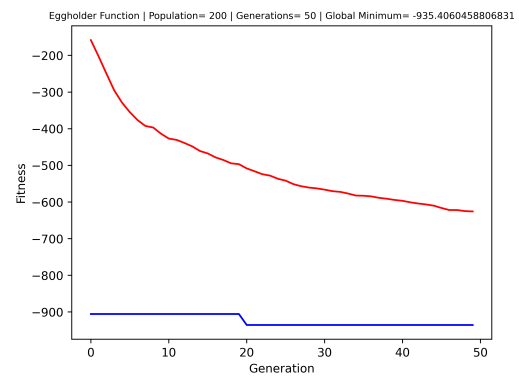

Figure 27: Population 100, Gen 50
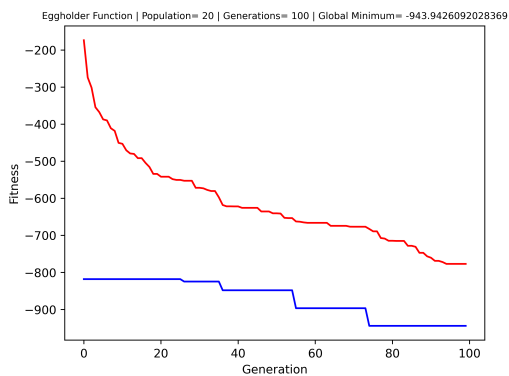

Figure 28: Population 200, Gen 50

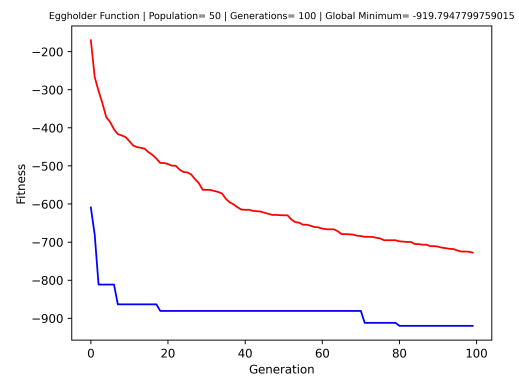Figure 29: Population 20, Gen 100

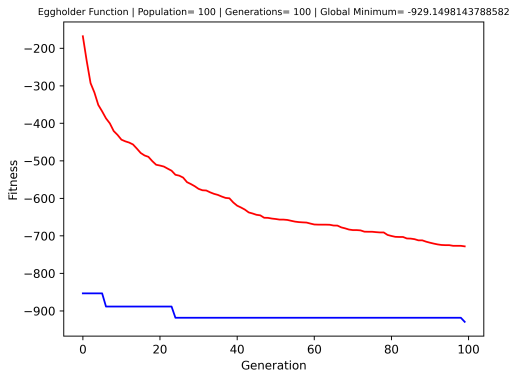Figure 30: Population 50, Gen 100
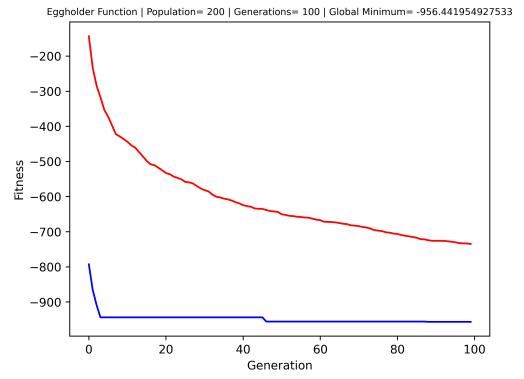
Figure 31: Population 100, Gen 100

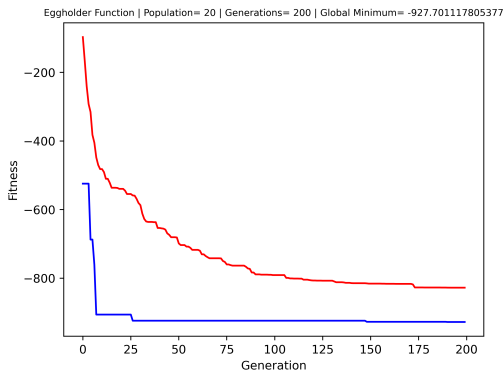Figure 32: Population 200, Gen 100

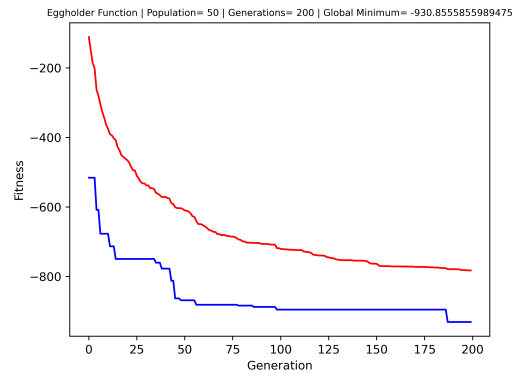Figure 33: Population 20, Gen 200

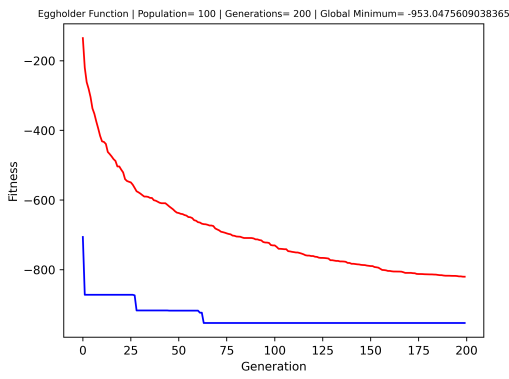

Figure 34: Population 50, Gen 200
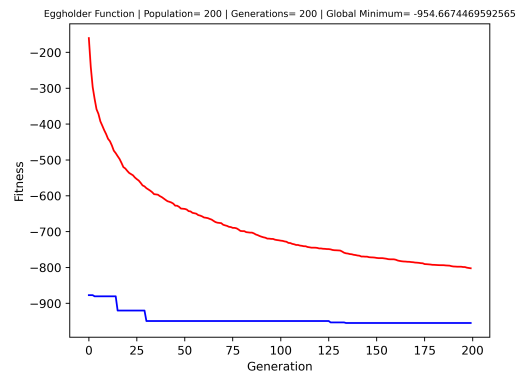

Figure 35: Population 100, Gen 200

Figure 36: Population 200, Gen 200

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0.4 Holder Table function

Fitness results of the Eggholder function for Generation 50, 100 and 200
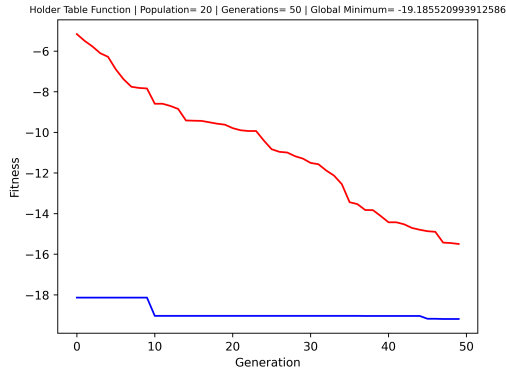

Figure 37: Population 20, Gen 50

Figure 38: Population 50, Gen 50
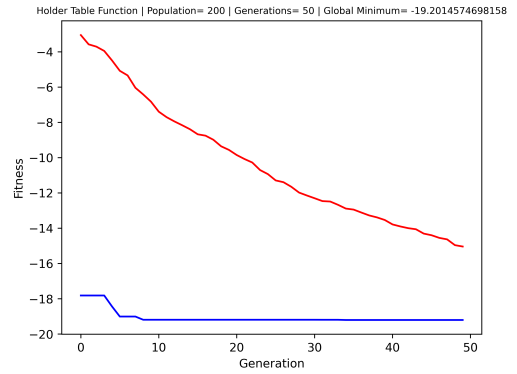

Figure 39: Population 100, Gen 50
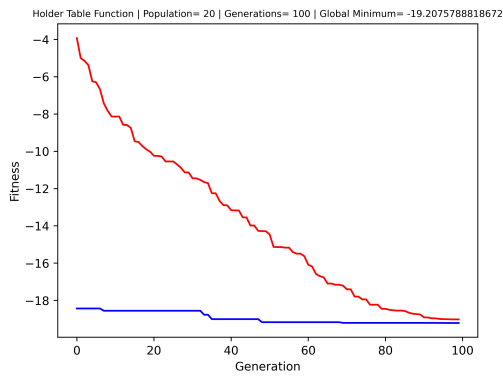

Figure 40: Population 200, Gen 50

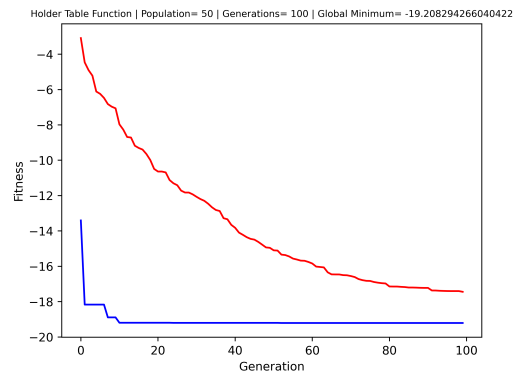Figure 41: Population 20, Gen 100

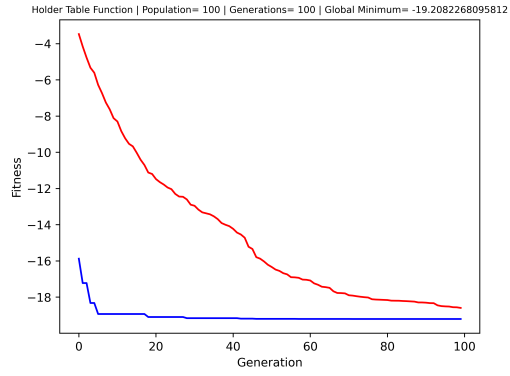

Figure 42: Population 50, Gen 100
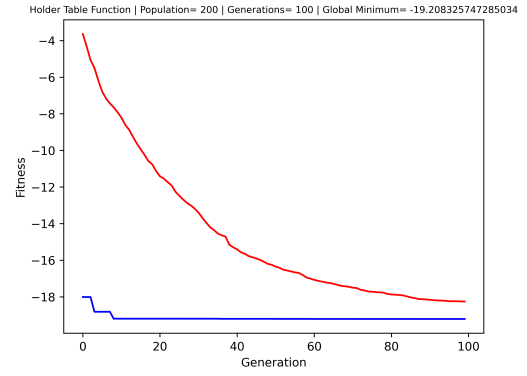
Figure 43: Population 100, Gen 100

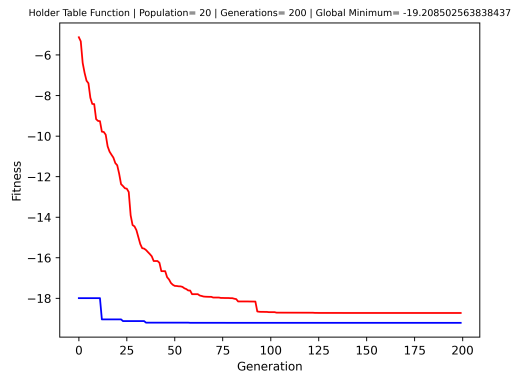Figure 44: Population 200, Gen 100

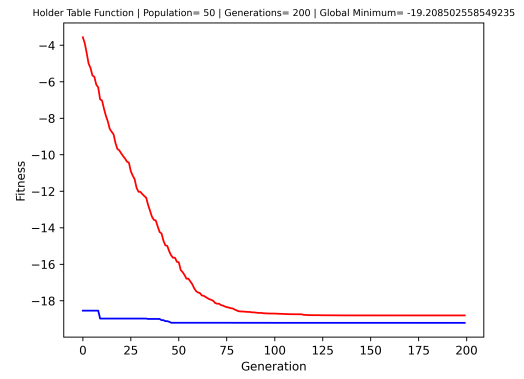Figure 45: Population 20, Gen 200

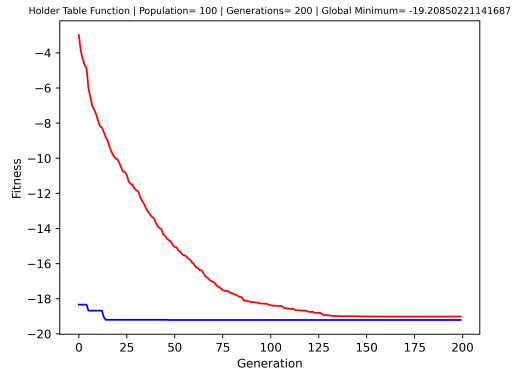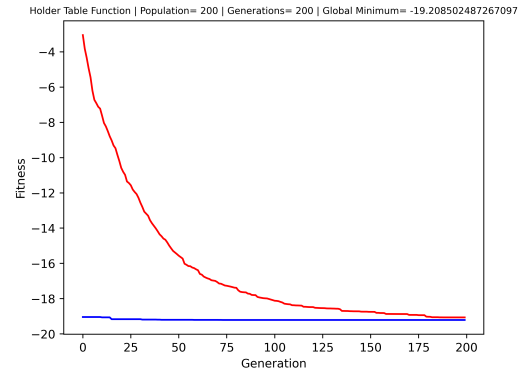

Figure 46: Population 50, Gen 200

Figure 47: Population 100, Gen 200

Figure 48: Population 200, Gen 200