**Diagrams (Uniform Order Crossover)**

Figure 1: Elite Fitness, 100% Crossover, 0% Mutation

Figure 2: Average Fitness, 100% Crossover, 0% Mutation

Figure 3: Elite Fitness, 100% Crossover, 10% Mutation

Figure 4: Average Fitness, 100% Crossover, 10% Mutation

Figure 5: Elite Fitness, 80% Crossover, 0% Mutation

Figure 6: Average Fitness, 80% Crossover, 0% Mutation

Figure 7: Elite Fitness, 80% Crossover, 10% Mutation

Figure 8: Average Fitness, 80% Crossover, 10% Mutation

Figure 9: Elite Fitness, 80% Crossover, 10% Mutation, Dynamic Mutation: On

Figure 10: Average Fitness, 80% Crossover, 10% Mutation, Dynamic Mutation: On

**Diagrams (2 Point Crossover)**

Figure 11: Elite Fitness, 100% Crossover, 0% Mutation

Figure 12: Average Fitness, 100% Crossover, 0% Mutation

Figure 13: Elite Fitness, 100% Crossover, 10% Mutation

Figure 14: Average Fitness, 100% Crossover, 10% Mutation

Figure 15: Elite Fitness, 80% Crossover, 0% Mutation

Figure 16: Average Fitness, 80% Crossover, 0% Mutation

Figure 17: Elite Fitness, 80% Crossover, 10% Mutation

Figure 18: Average Fitness, 80% Crossover, 10% Mutation

Figure 19: Elite Fitness, 80% Crossover, 10% Mutation, Dynamic Mutation: On

Figure 20: Average Fitness, 80% Crossover, 10% Mutation, Dynamic Mutation: On

Table 1: Uniform Order Crossover Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crossover Rate | %100 | %100 | %80 | %80 | %80 |
| Mutation Rate | %0 | %10 | %0 | %10 | %10 |
| Dynamic Mutation | Off | Off | Off | Off | On |
| Best Fitness | 13295.8 | 10853.2 | 14039.9 | 8281.15 | 8069.61 |

Table 2: 2-Point Crossover Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crossover Rate | %100 | %100 | %80 | %80 | %80 |
| Mutation Rate | %0 | %10 | %0 | %10 | %10 |
| Dynamic Mutation | Off | Off | Off | Off | On |
| Best Fitness | 17163.1 | 8659.28 | 16111.4 | 8968.78 | 8012.99 |