

1 Simulation Results

1.1 50_3_800_100

Time used: 71.66908250172764s

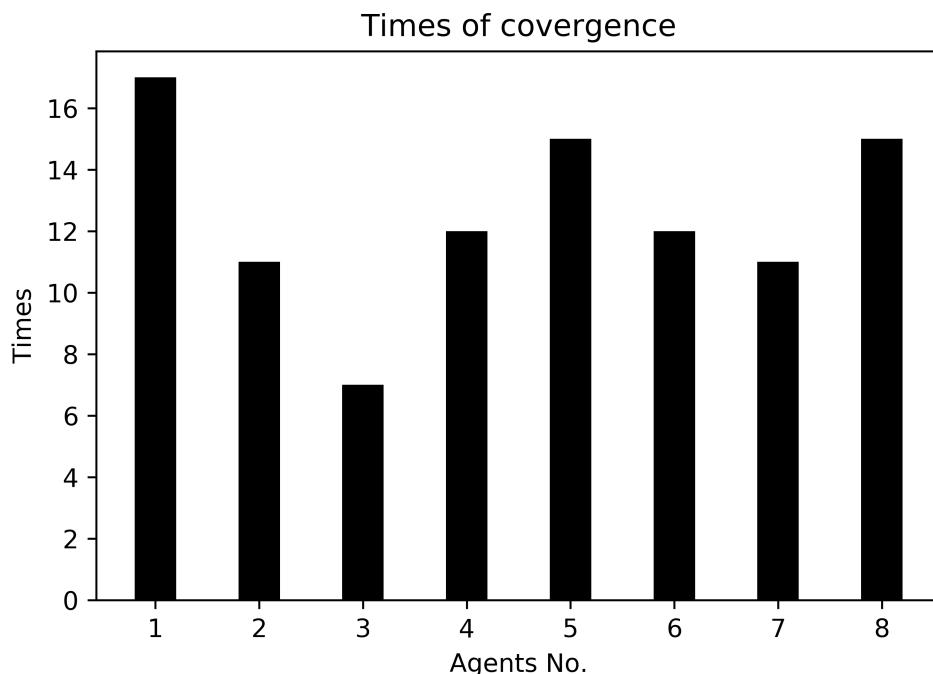


Figure 1: Where the iterations converge

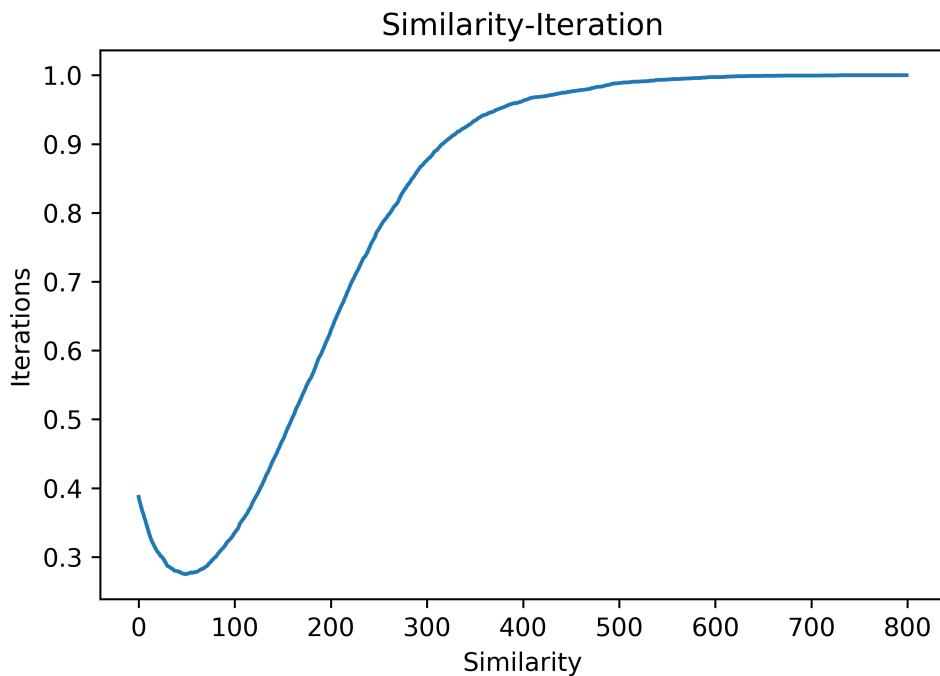


Figure 2: Similarity

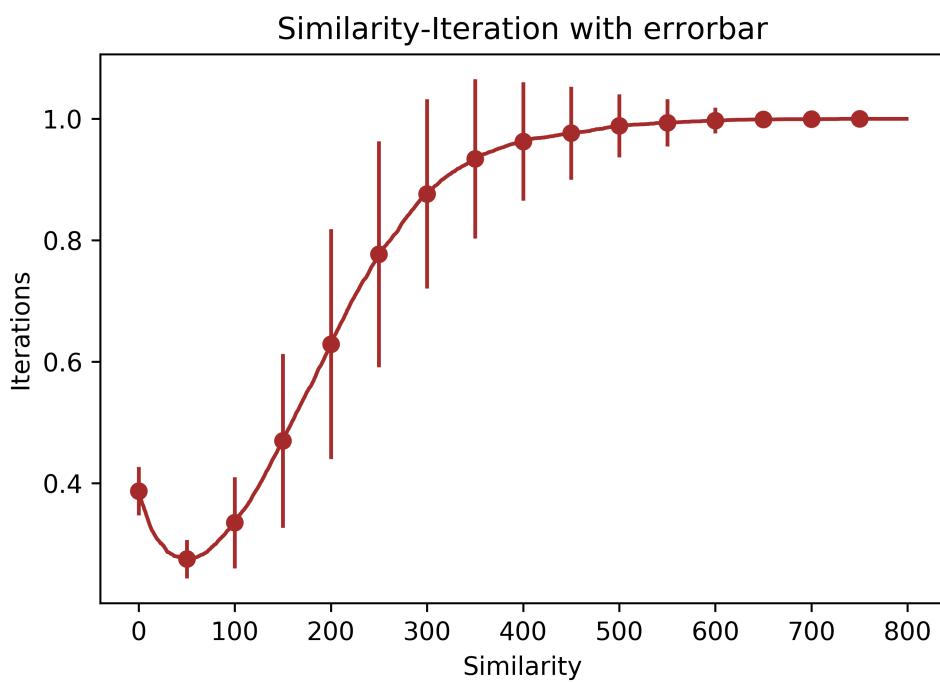


Figure 3: Similarity with error bar

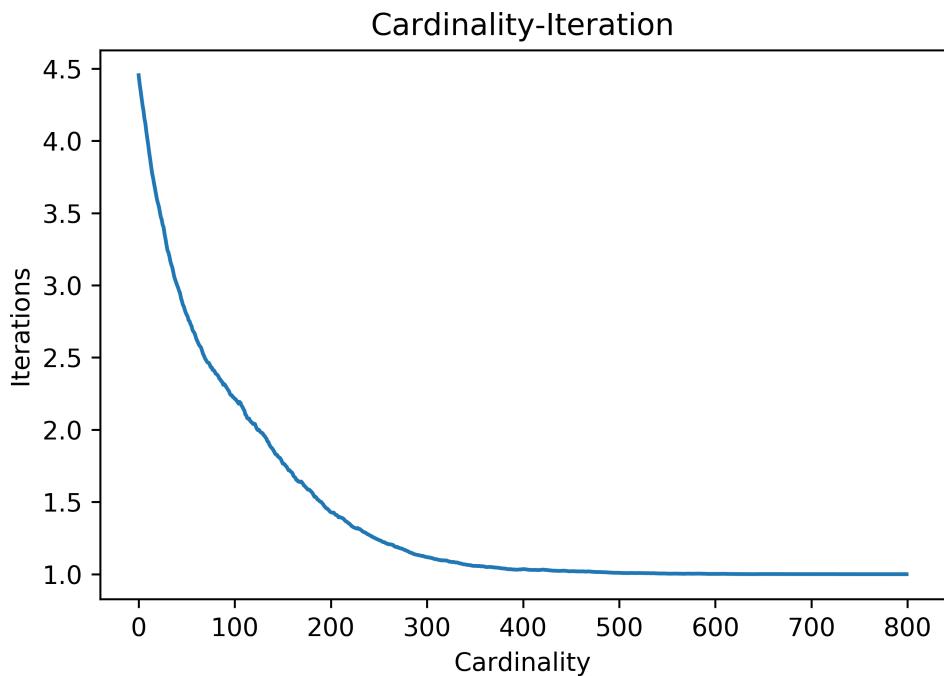


Figure 4: Cardinality

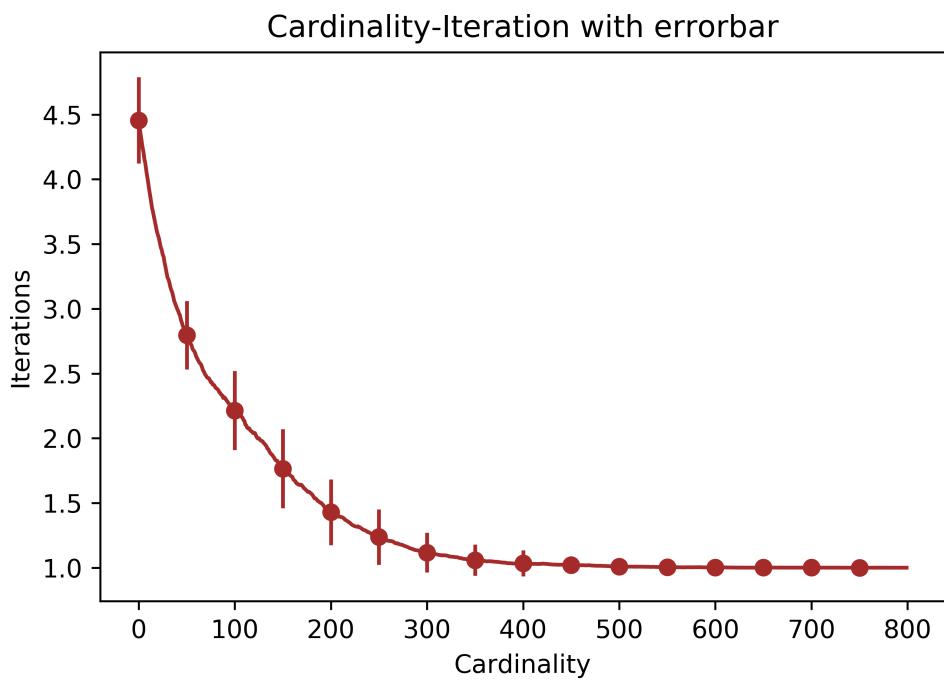


Figure 5: Cardinality with error bar

1.2 50_4_1000_100

Time used: 87.256231800553s

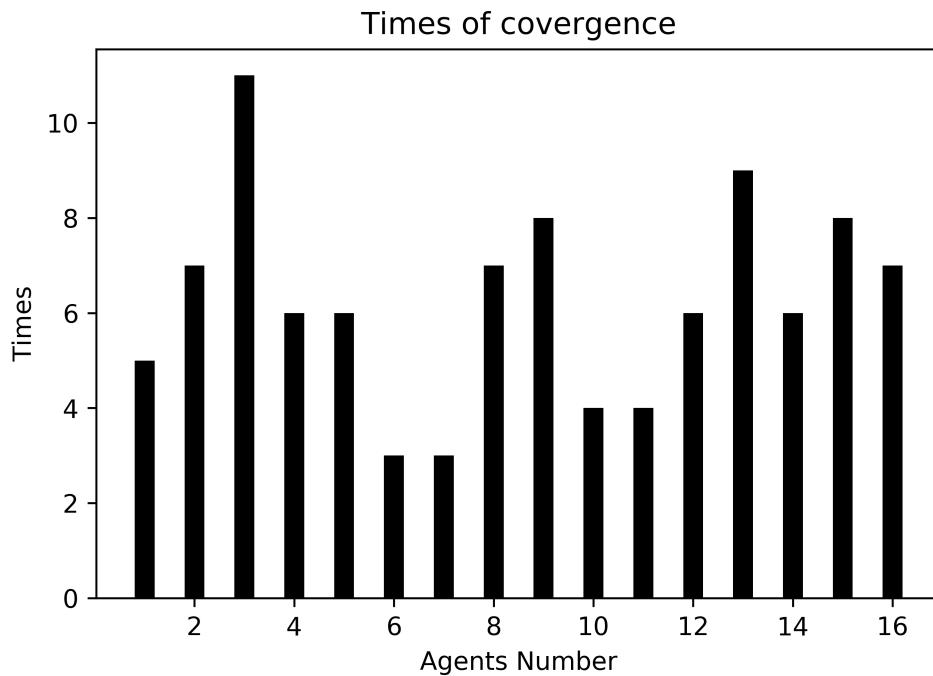


Figure 6: Where the iterations converge

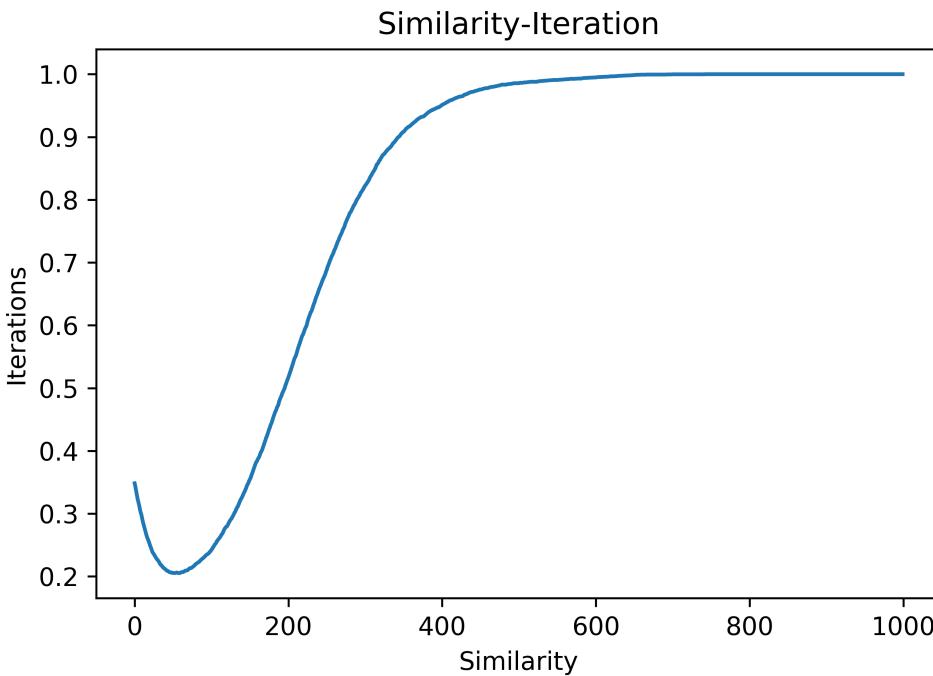


Figure 7: Similarity

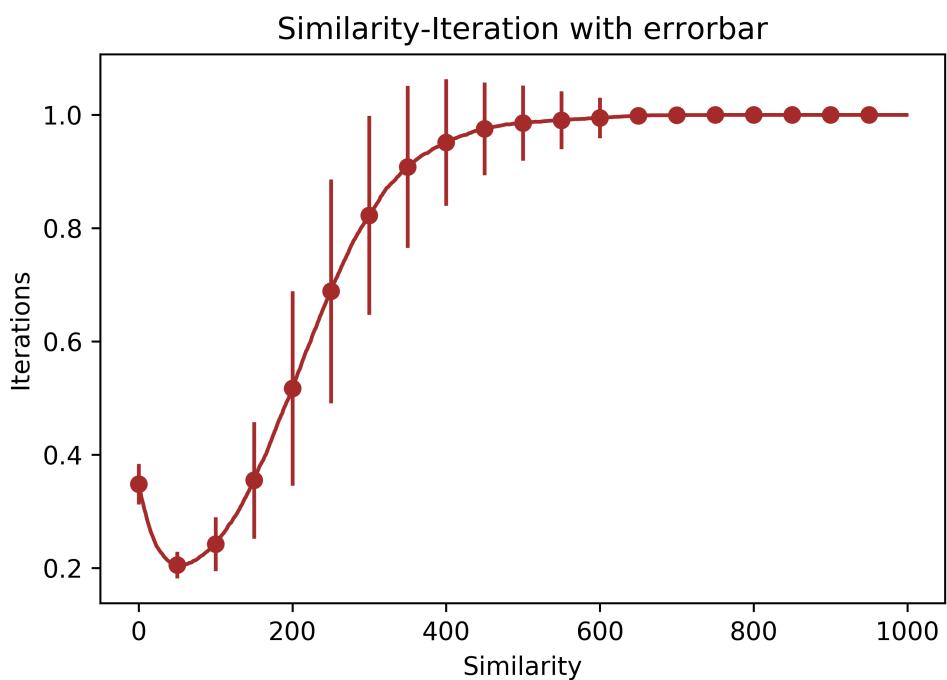


Figure 8: Similarity with error bar

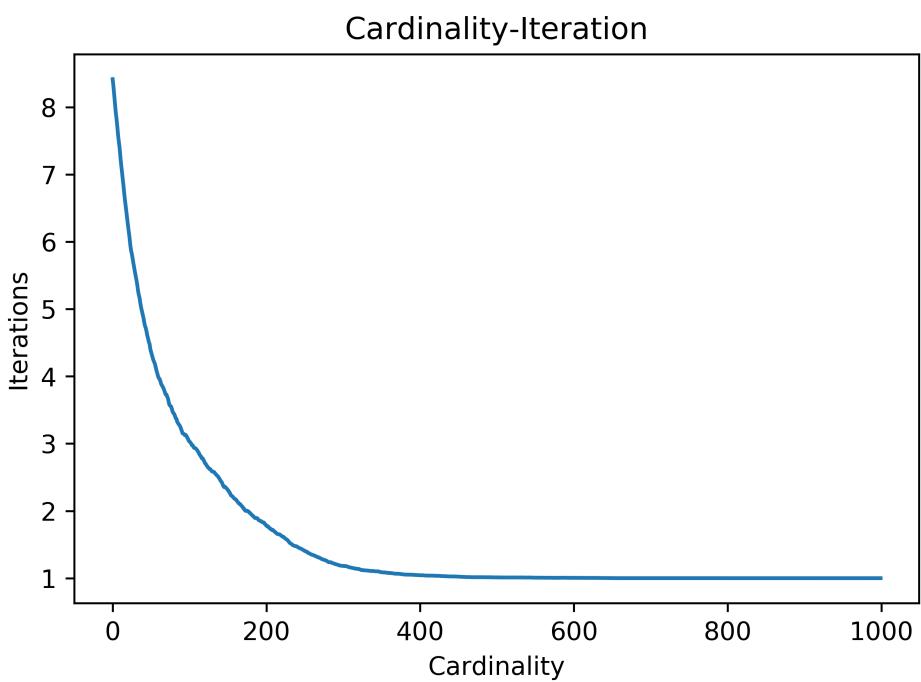


Figure 9: Cardinality

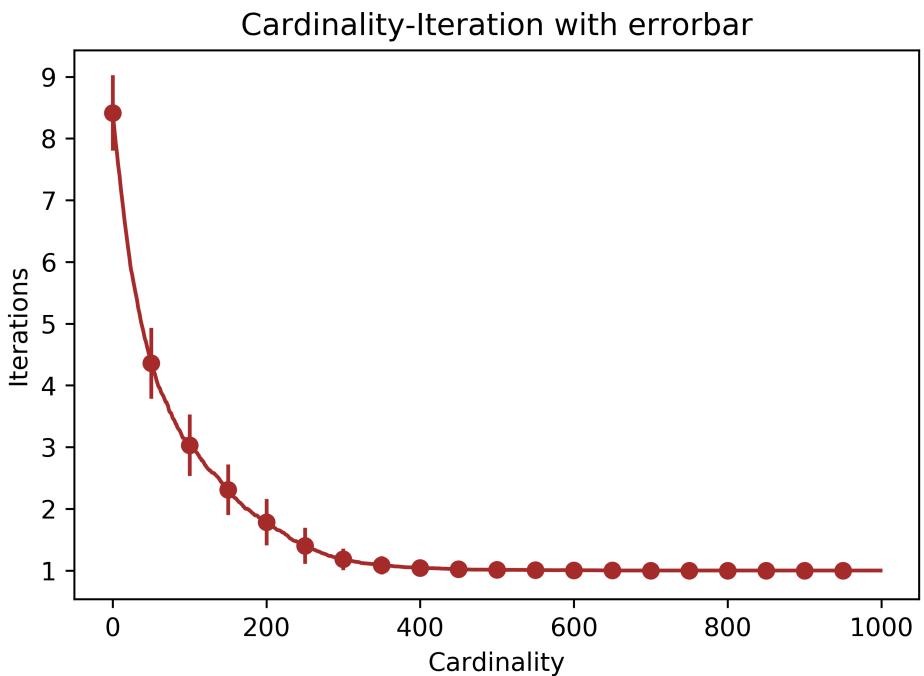


Figure 10: Cardinality with error bar

1.3 50_4_1000_300

Time used: 247.07707320986628

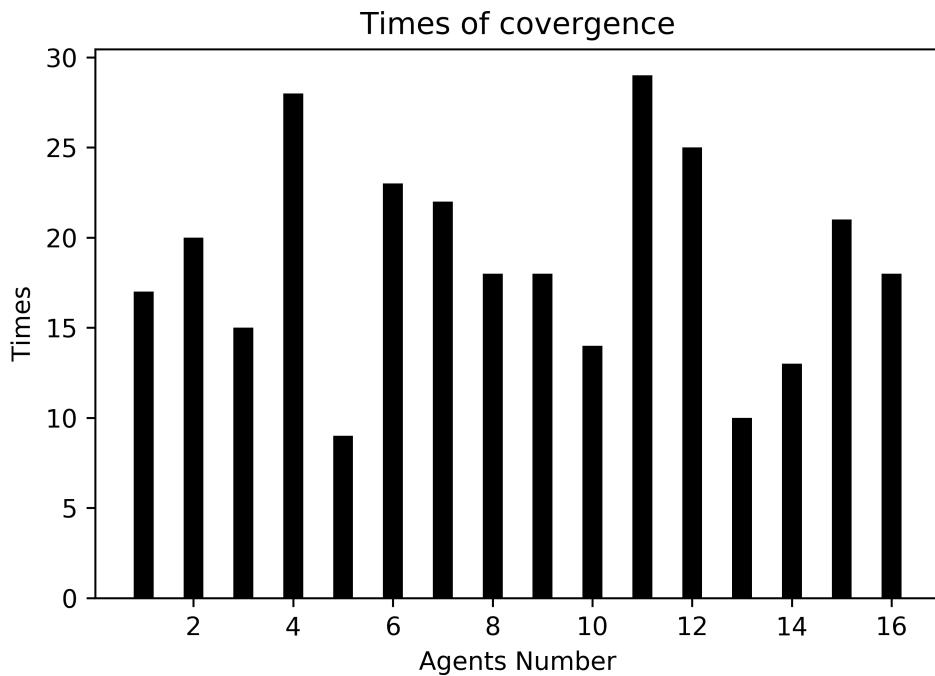


Figure 11: Where the iterations converge

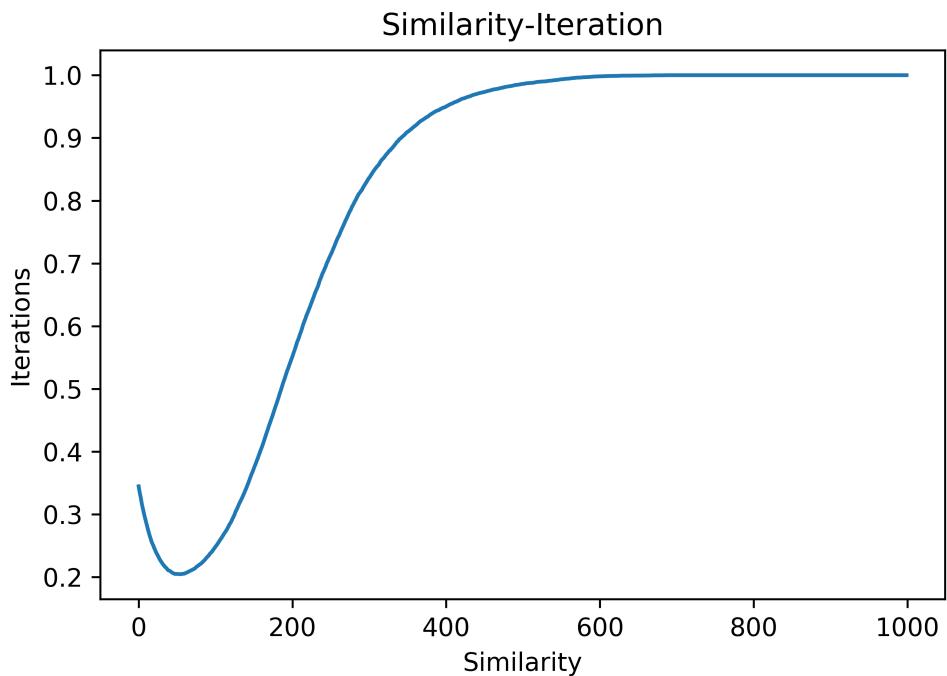


Figure 12: Similarity

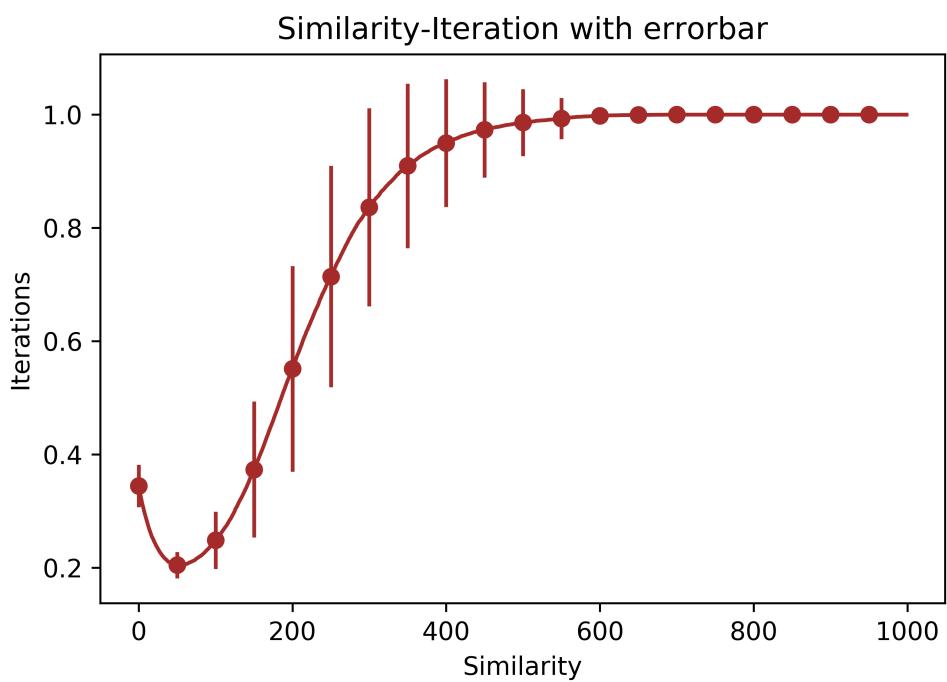


Figure 13: Similarity with error bar

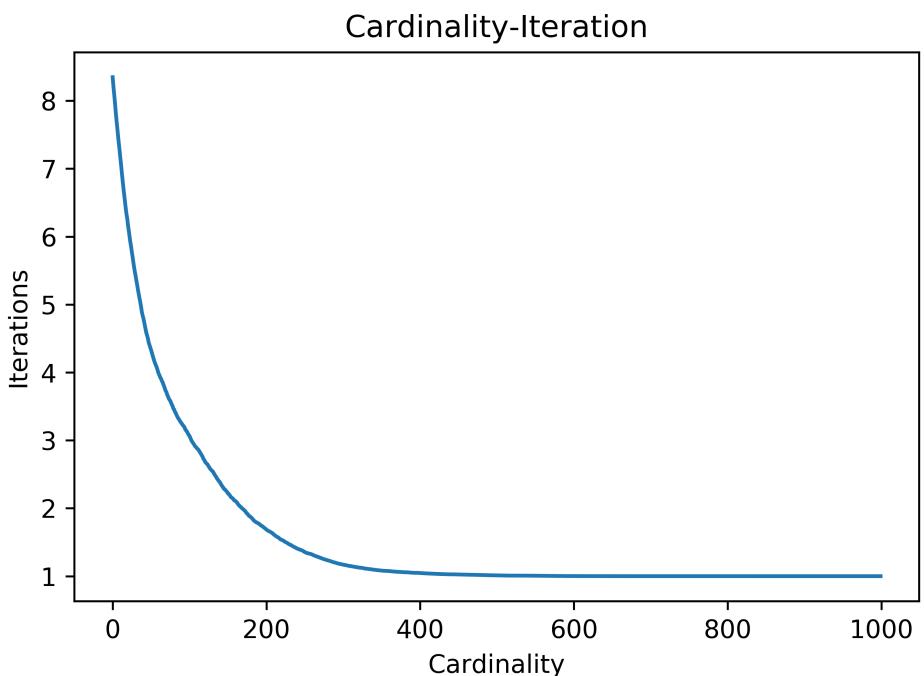


Figure 14: Cardinality

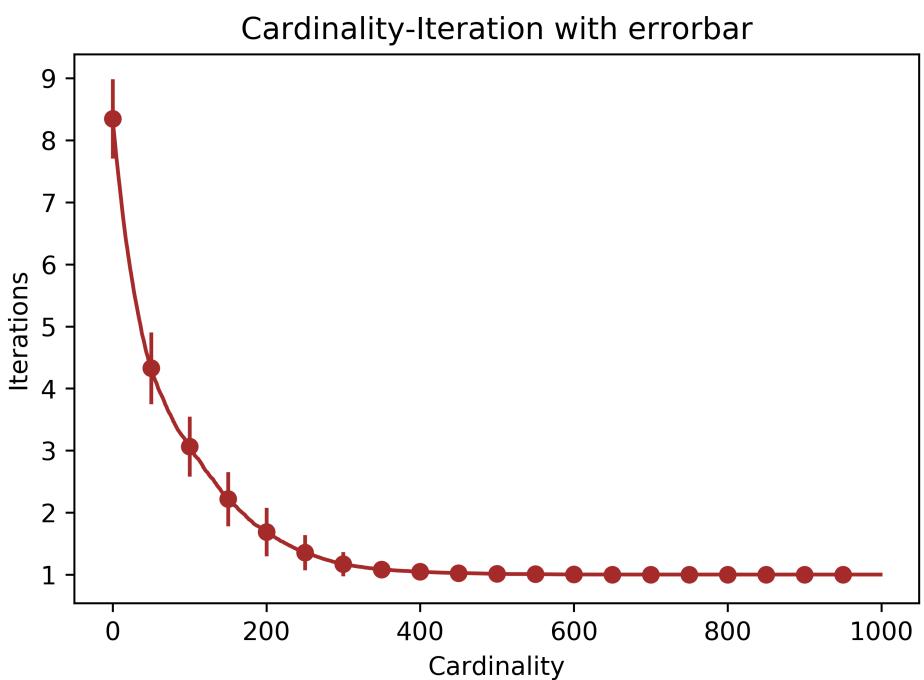


Figure 15: Cardinality with error bar

1.4 50_4_1000_800

Time used: 726.9702704230385

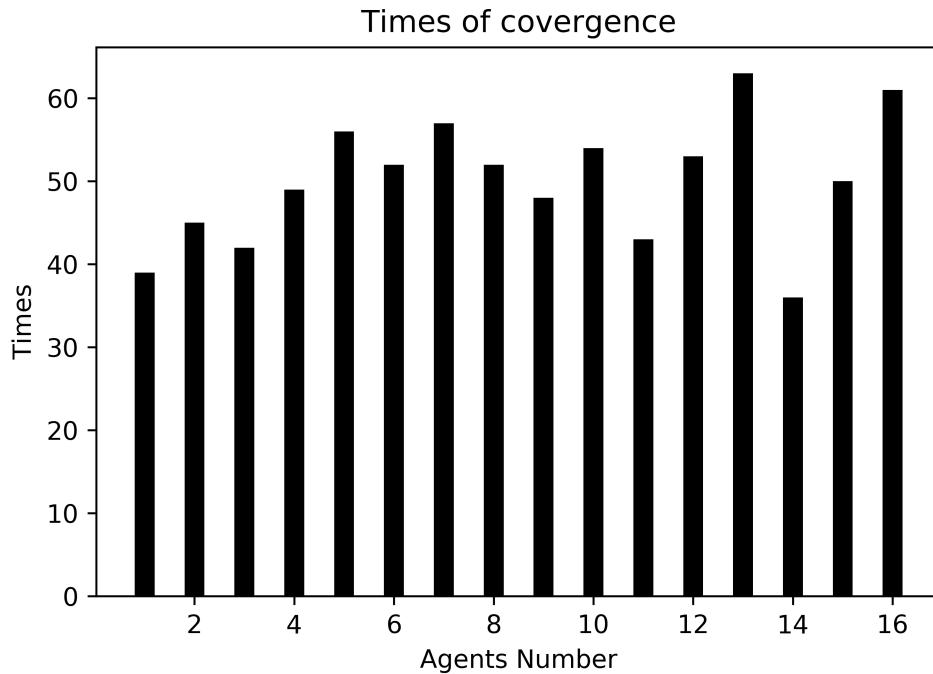


Figure 16: Where the iterations converge

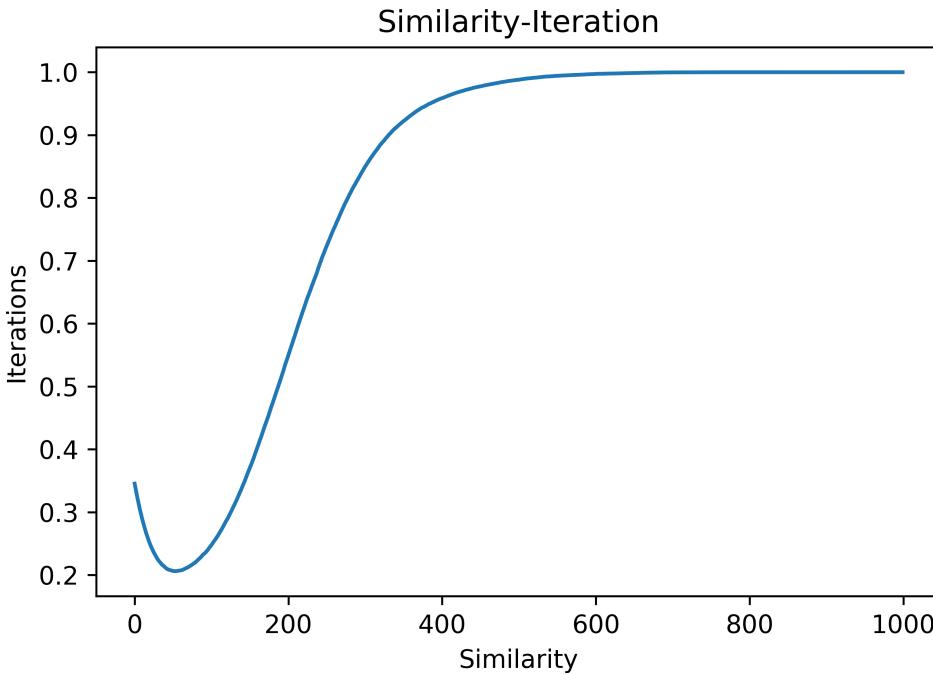


Figure 17: Similarity

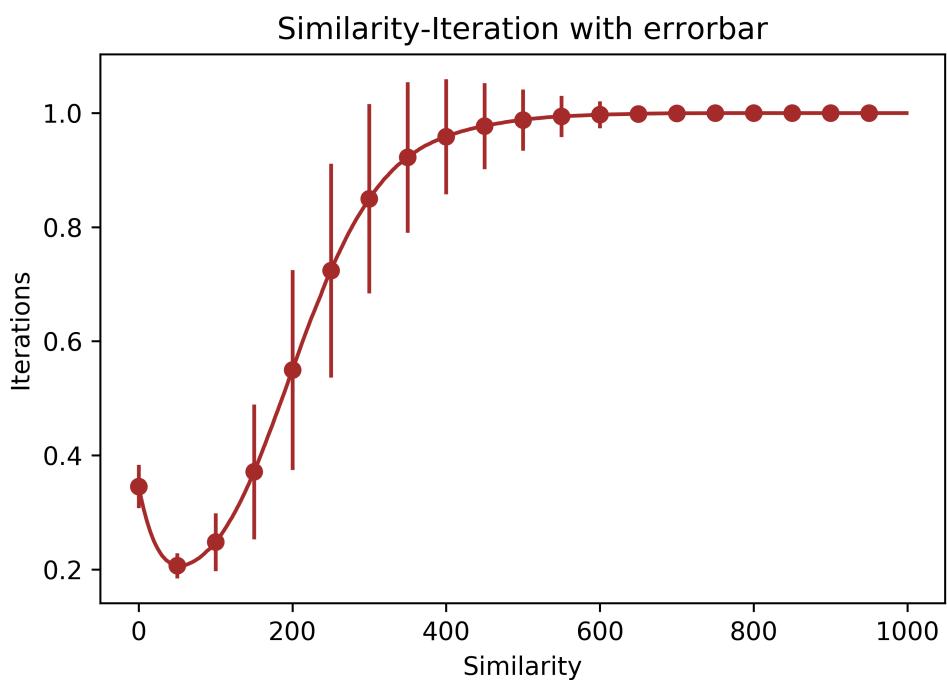


Figure 18: Similarity with error bar

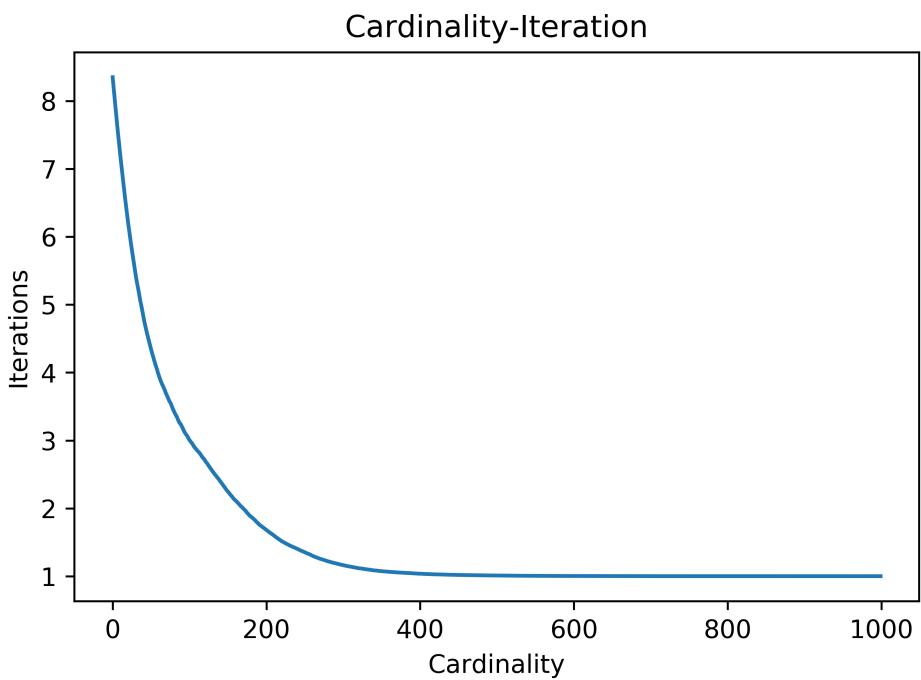


Figure 19: Cardinality

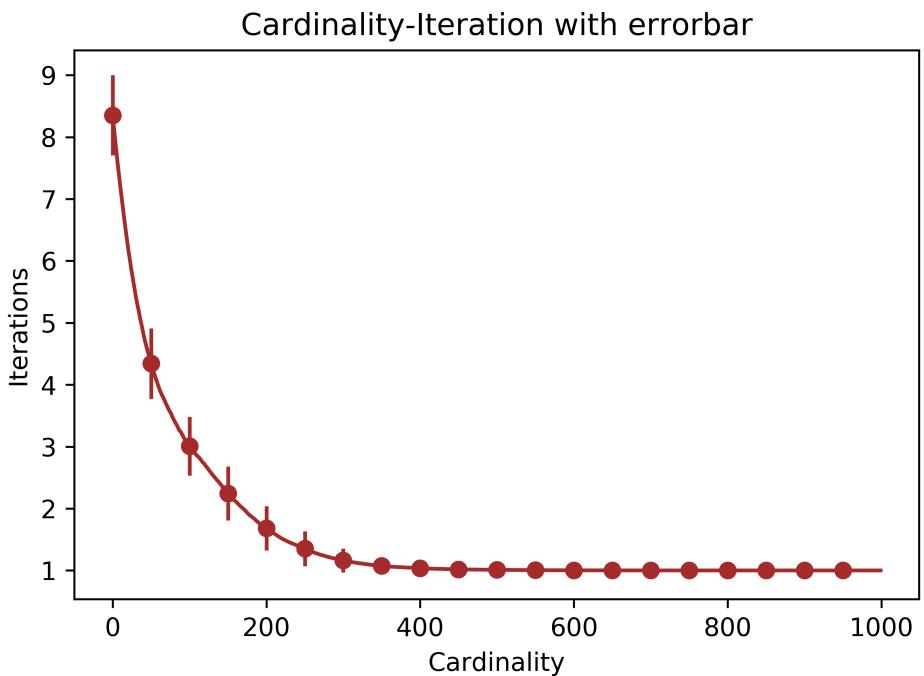


Figure 20: Cardinality with error bar

1.5 50_4_1000_800

Experiment 1

Time used: 1423.639460532976

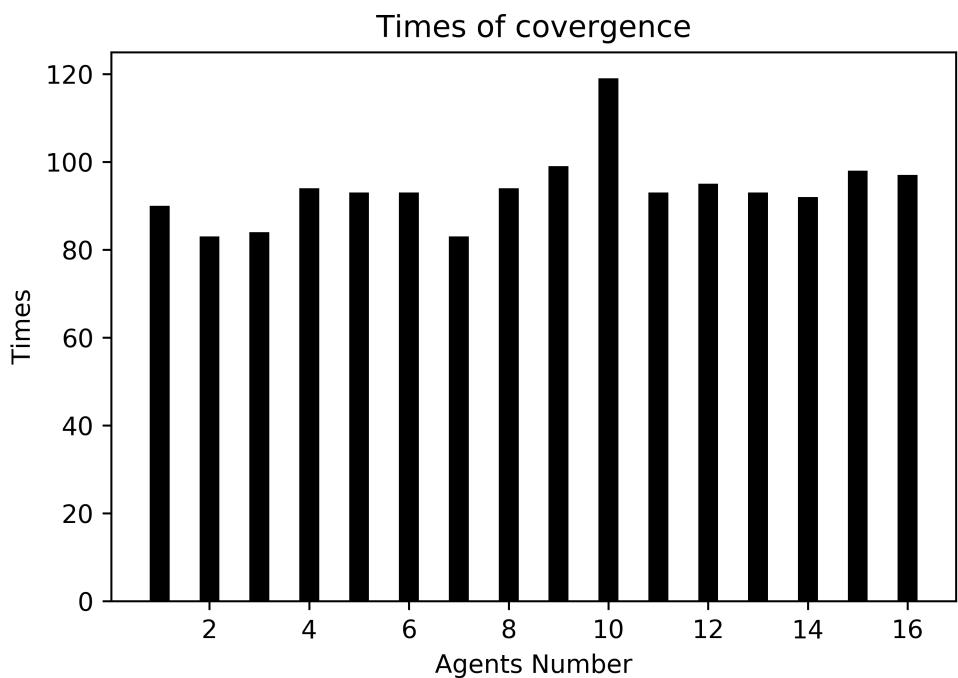


Figure 21: Where the iterations converge

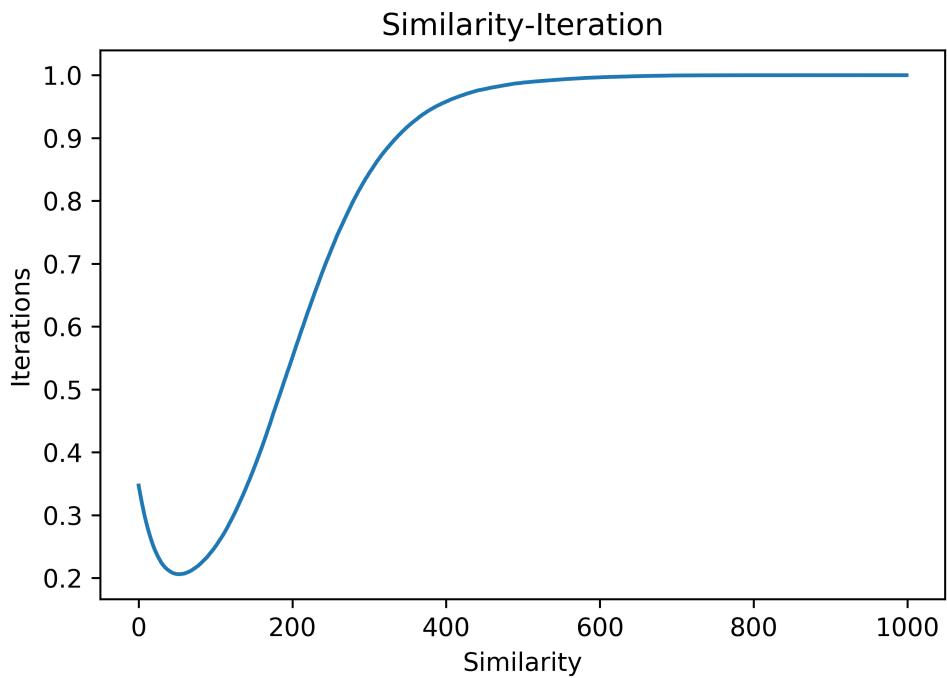


Figure 22: Similarity

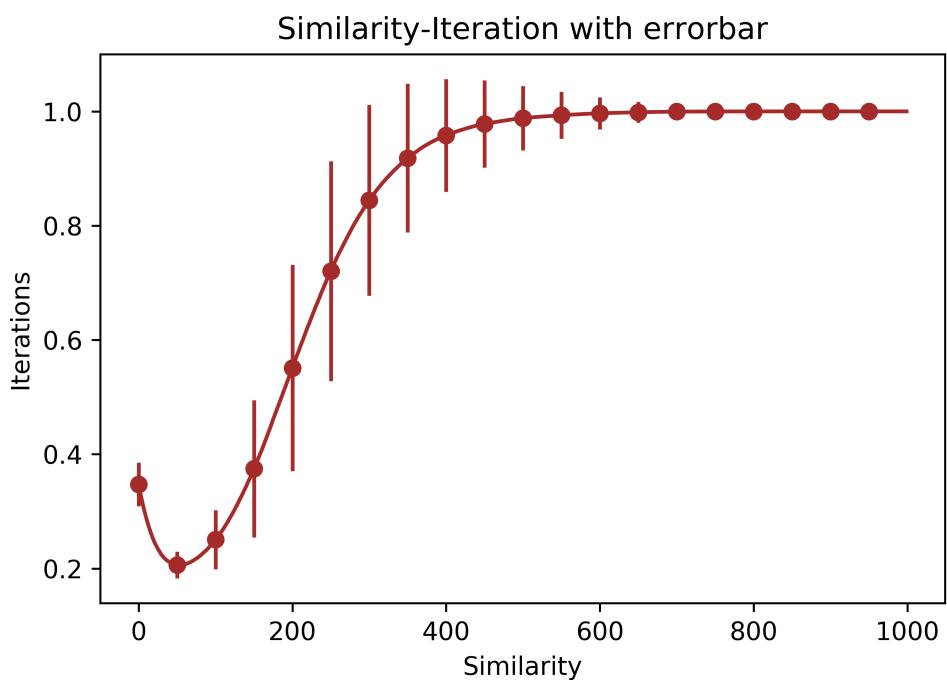


Figure 23: Similarity with error bar

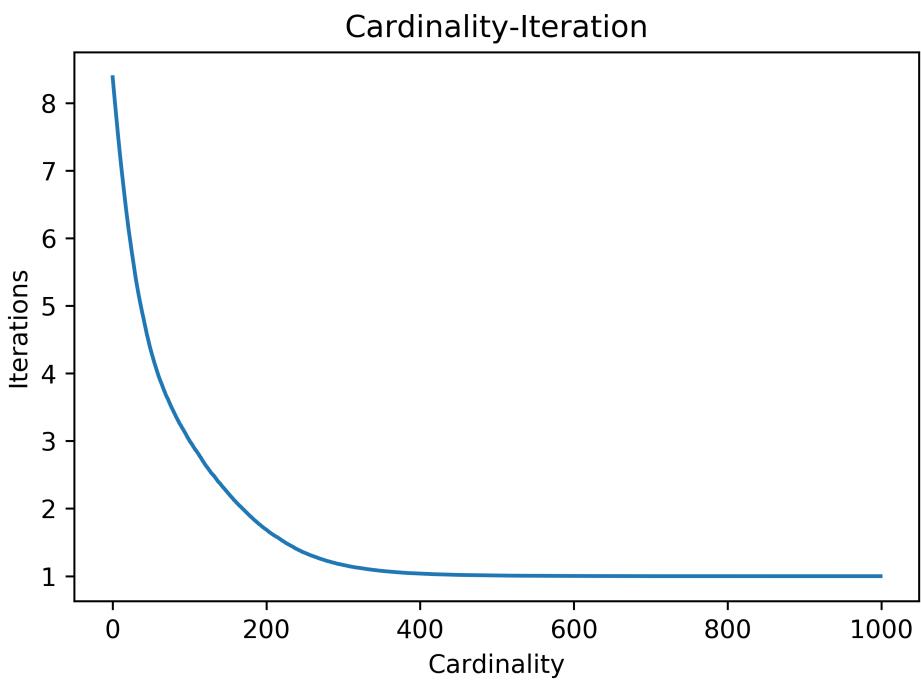


Figure 24: Cardinality

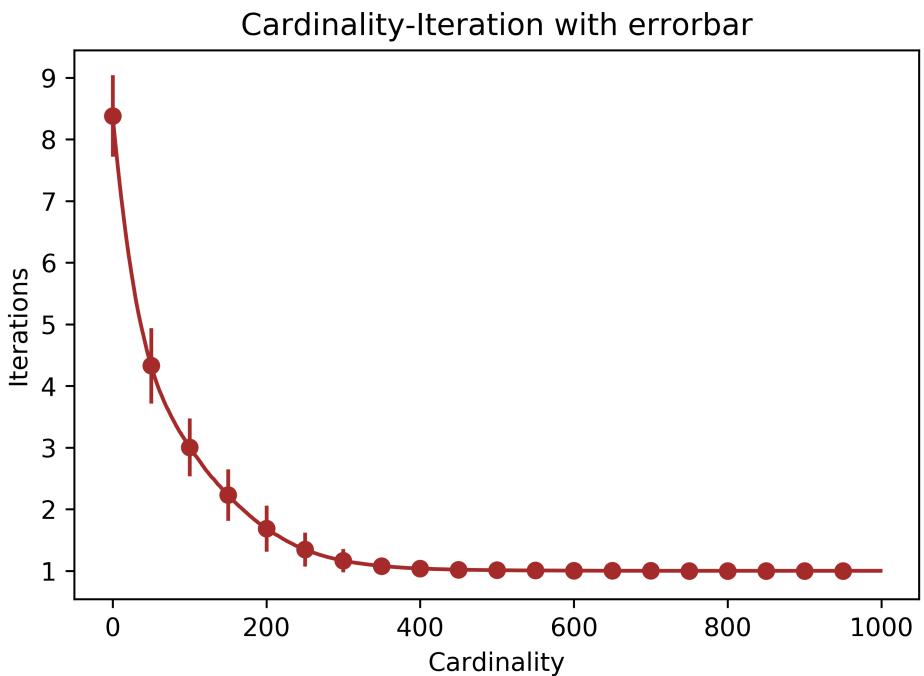


Figure 25: Cardinality with error bar

Experiment 2

Time used: 2714.9842374045834(too long due the sleep of computer)

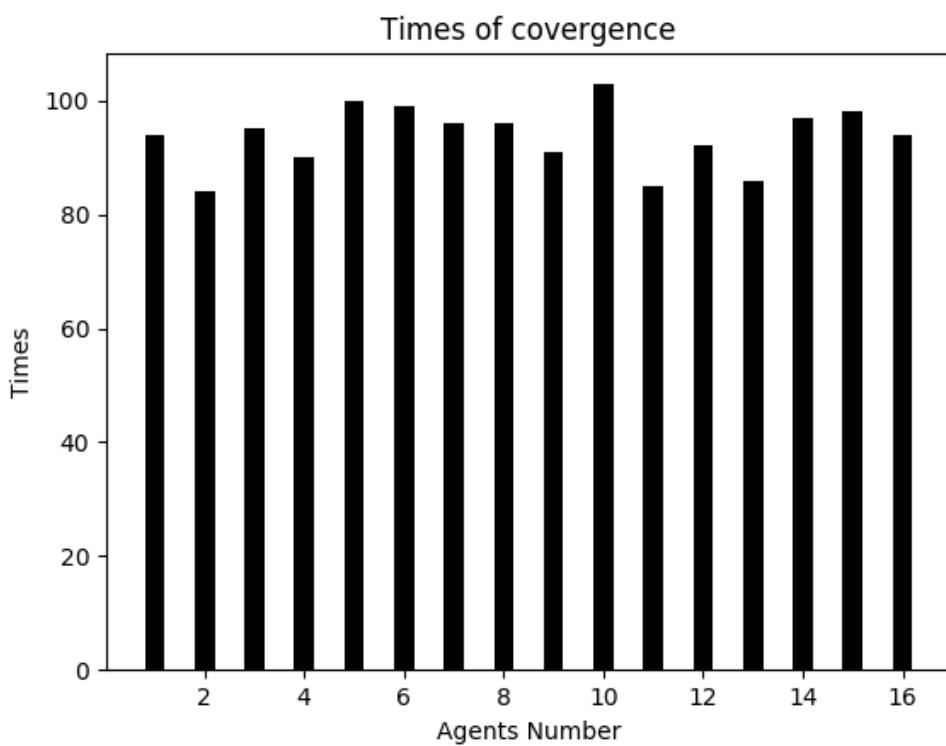


Figure 26: Where the iterations converge

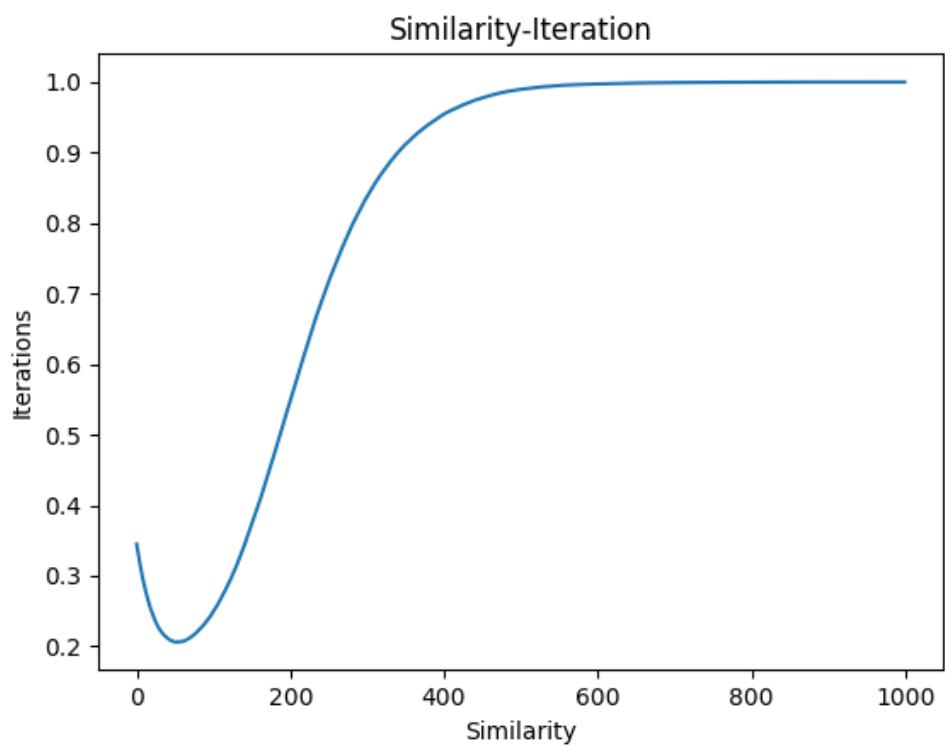


Figure 27: Similarity

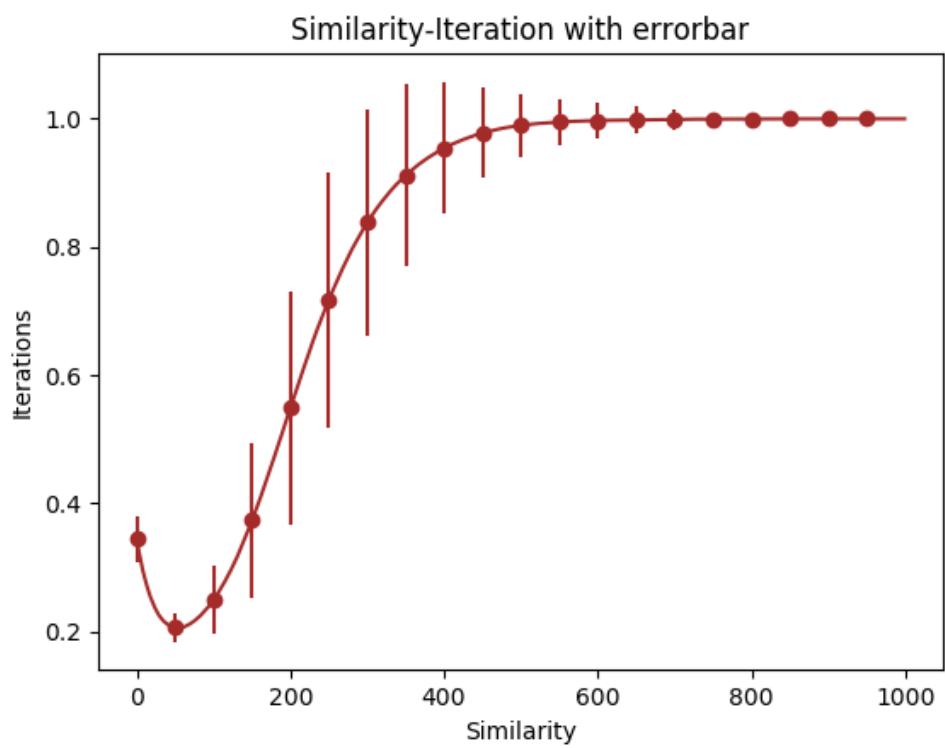


Figure 28: Similarity with error bar

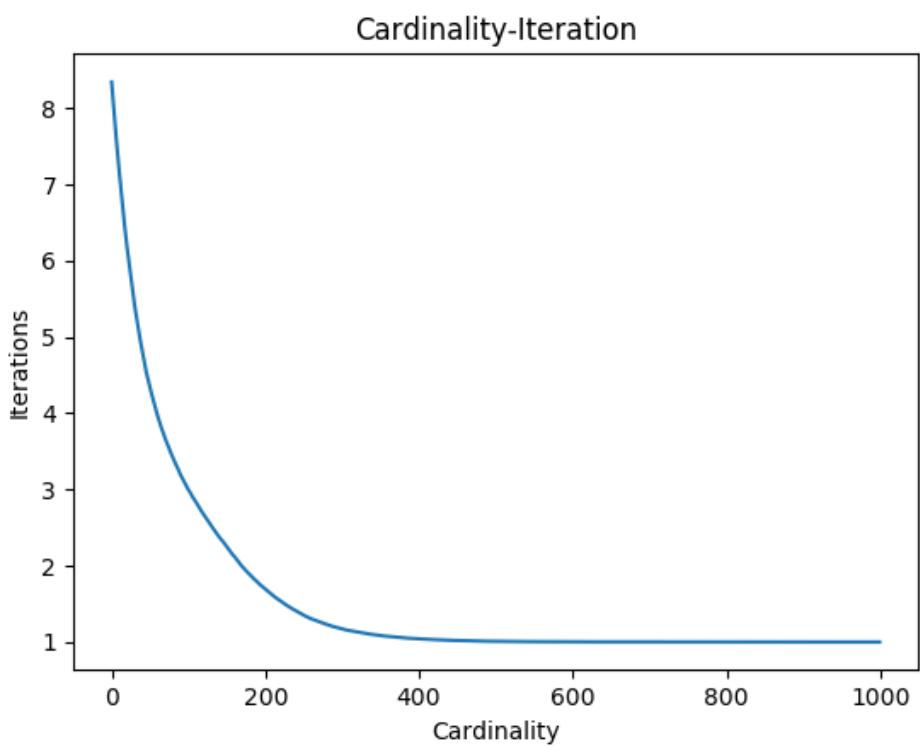


Figure 29: Cardinality

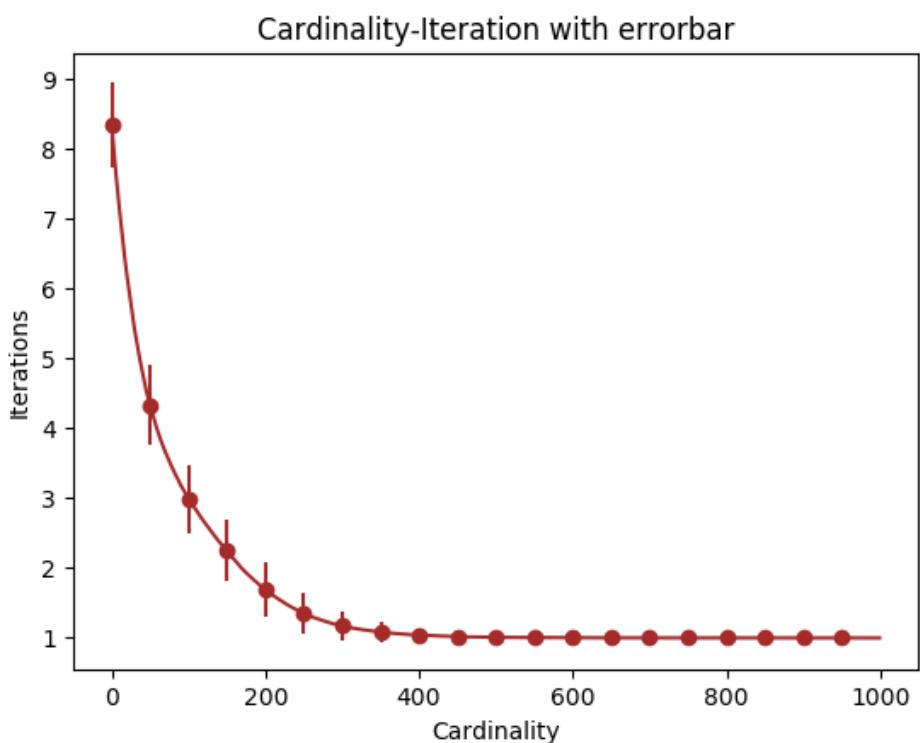


Figure 30: Cardinality with error bar

Experiment 3

Time used: 1232.8931827431234

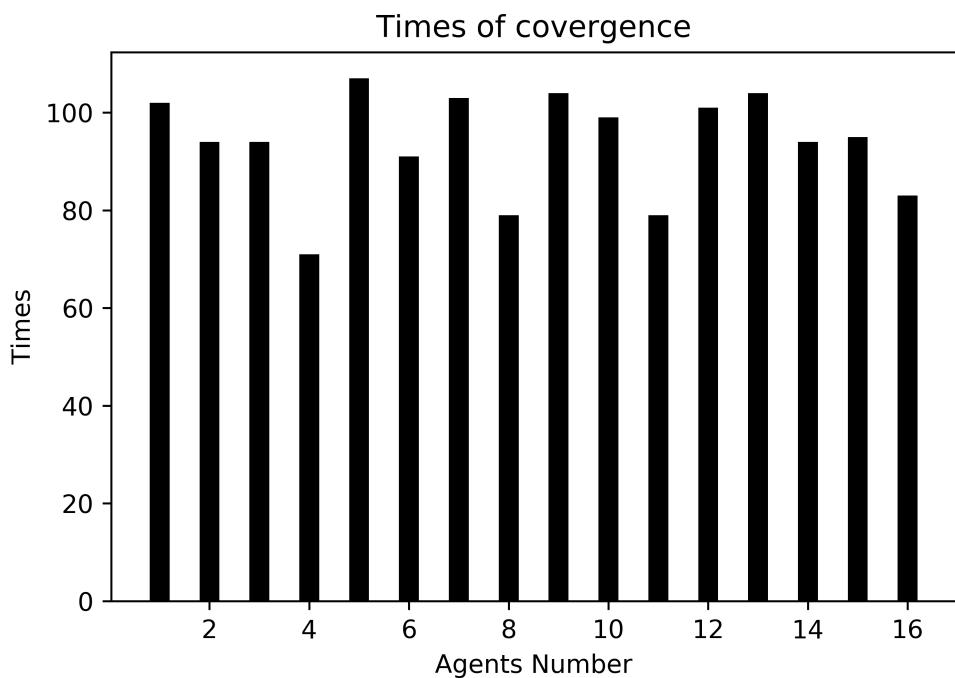


Figure 31: Where the iterations converge

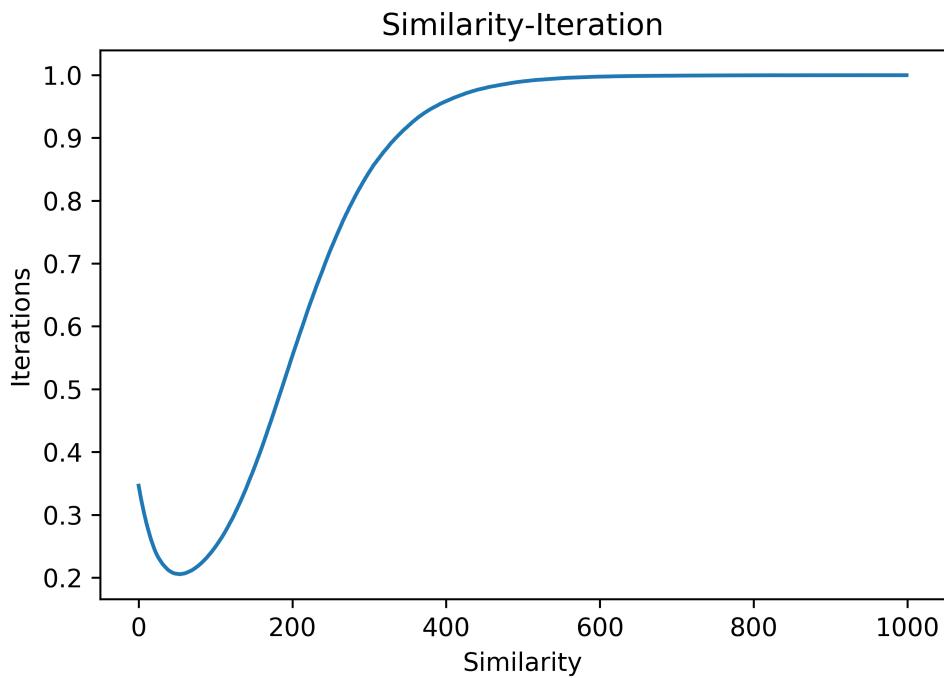


Figure 32: Similarity

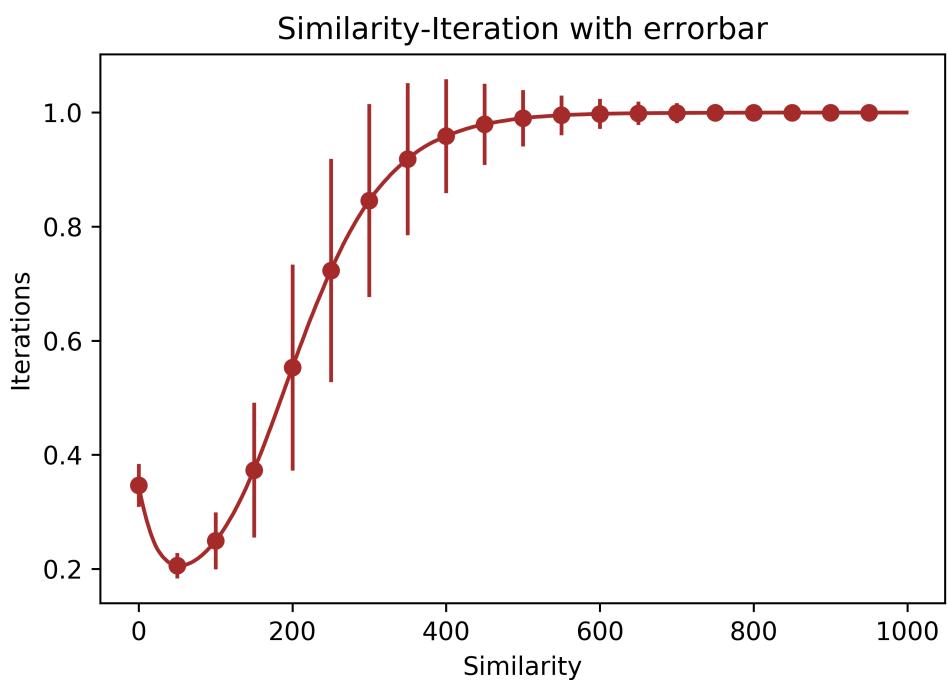


Figure 33: Similarity with error bar

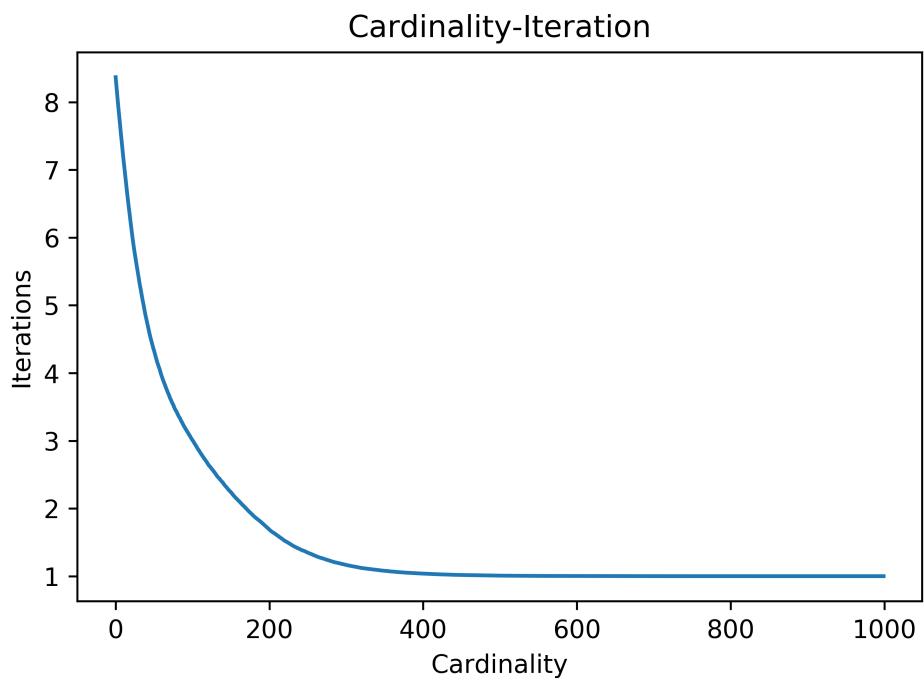


Figure 34: Cardinality

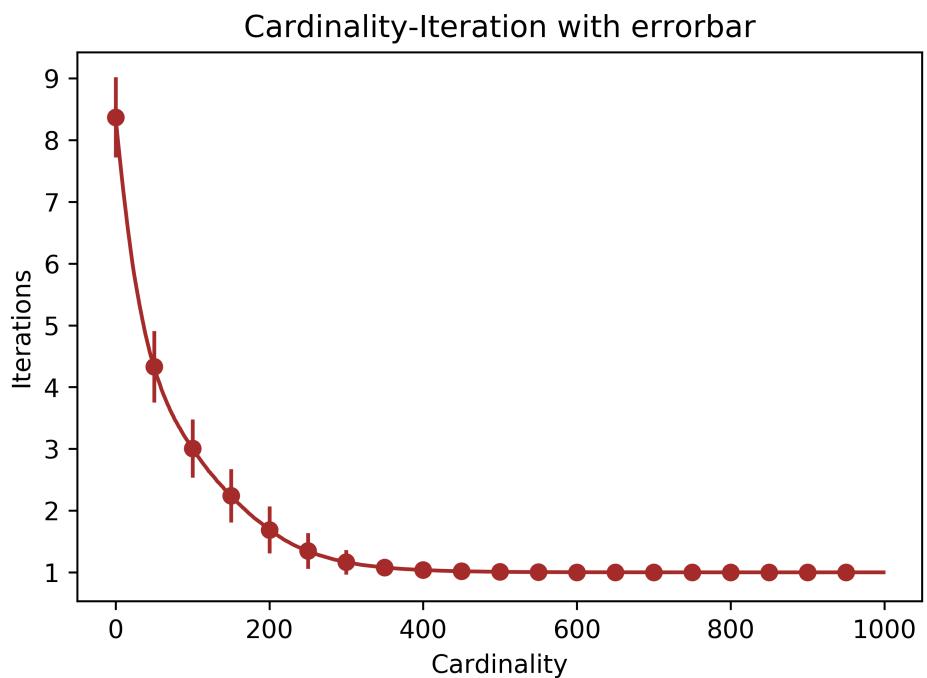


Figure 35: Cardinality with error bar