

1 Simulation Results with random initialise

1.1 50_3_800_100

Time used: 71.66908250172764s

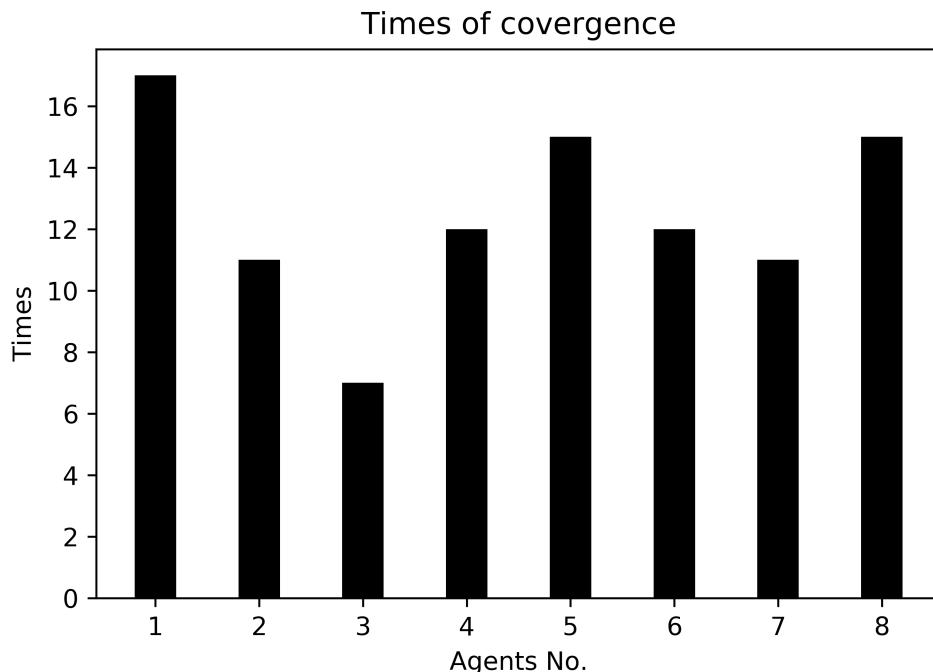


Figure 1: Where the iterations converge

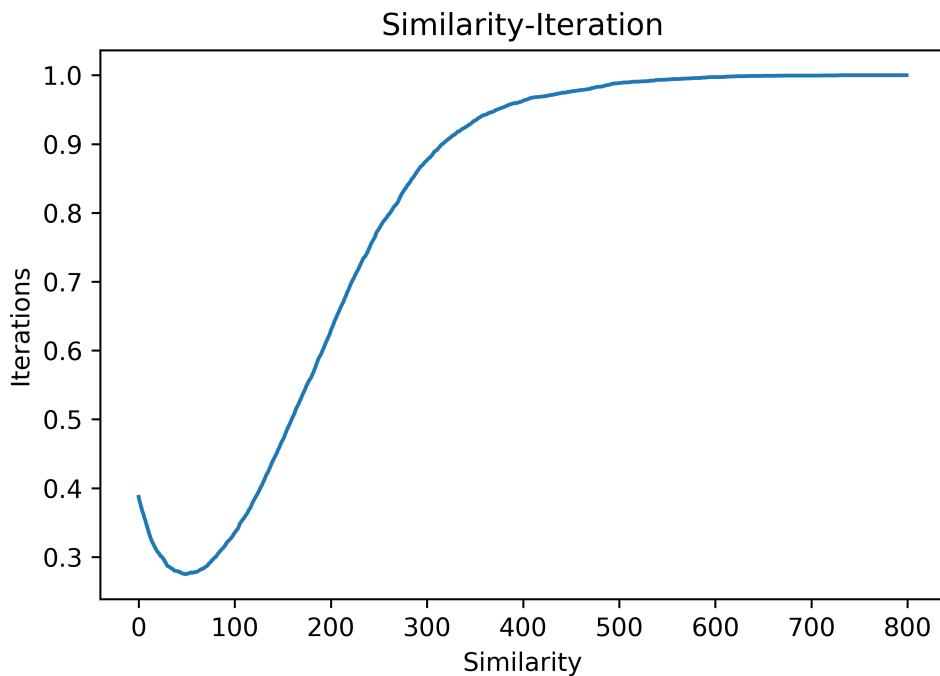


Figure 2: Similarity

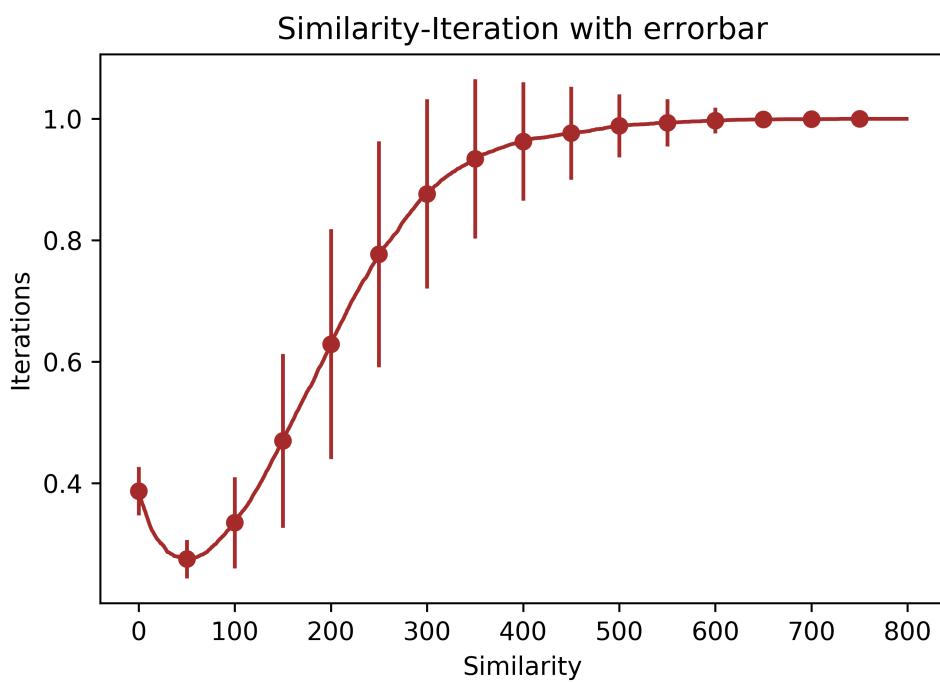


Figure 3: Similarity with error bar

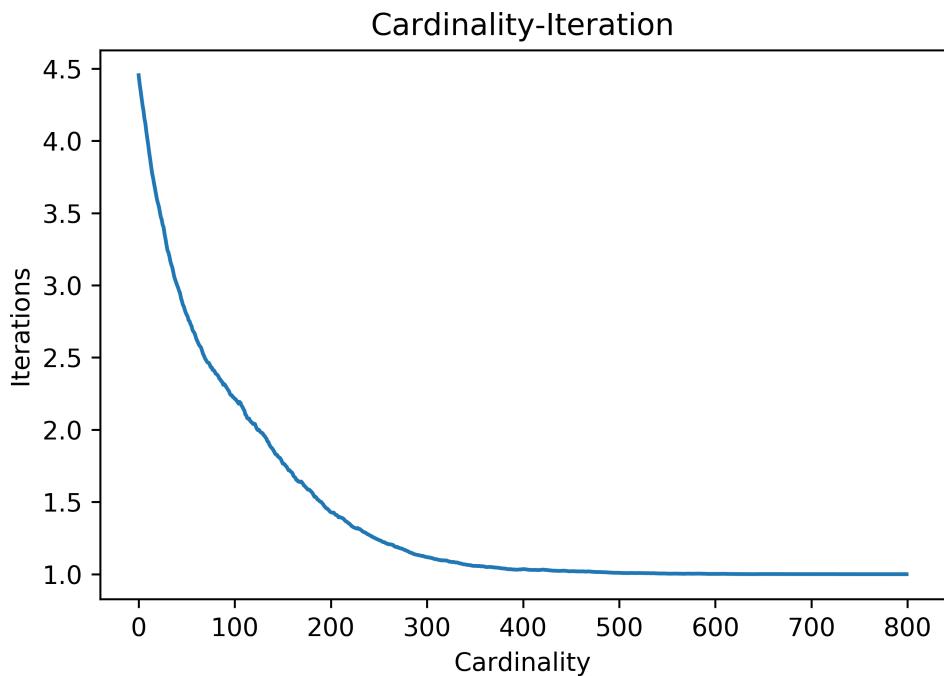


Figure 4: Cardinality

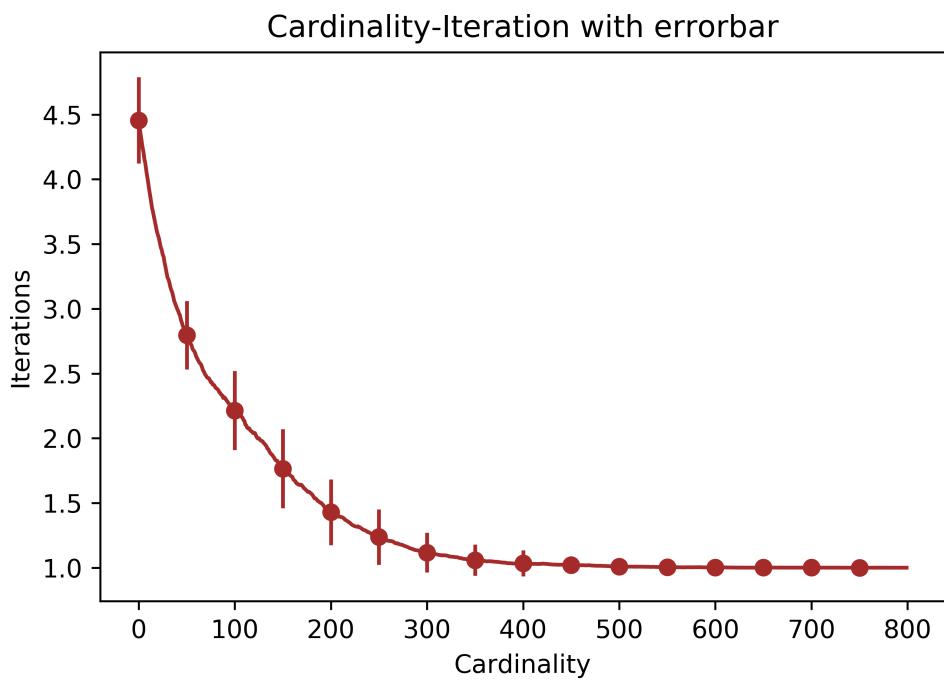


Figure 5: Cardinality with error bar

1.2 50_4_1000_100

Time used: 87.256231800553s

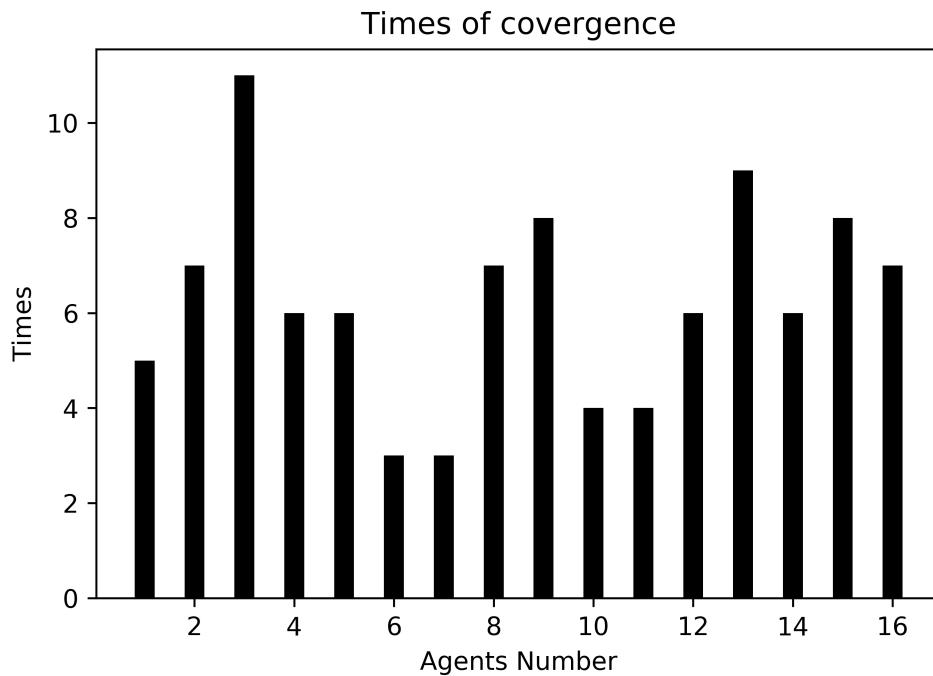


Figure 6: Where the iterations converge

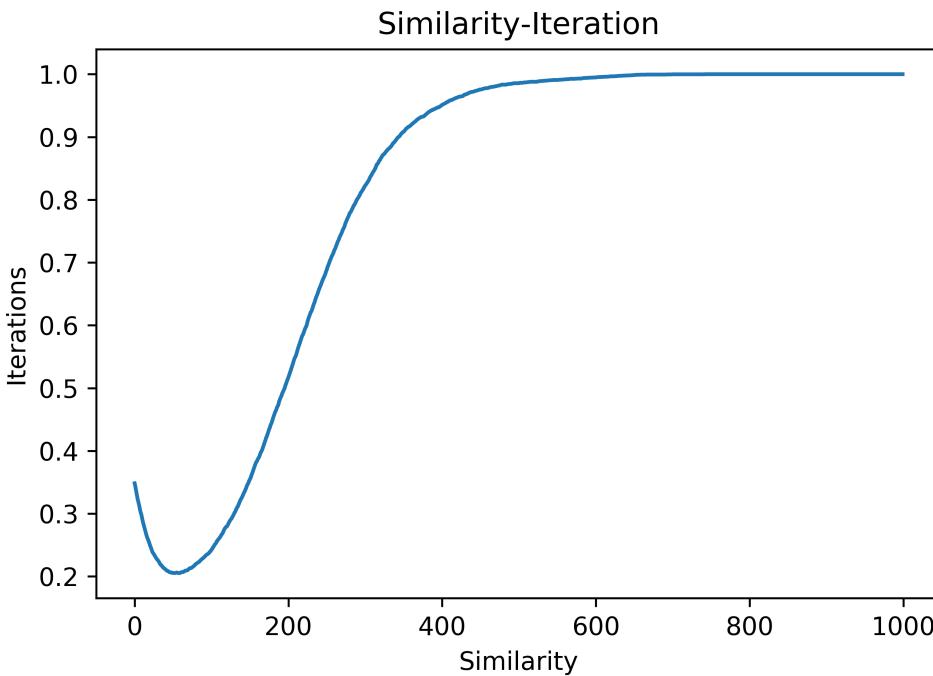


Figure 7: Similarity

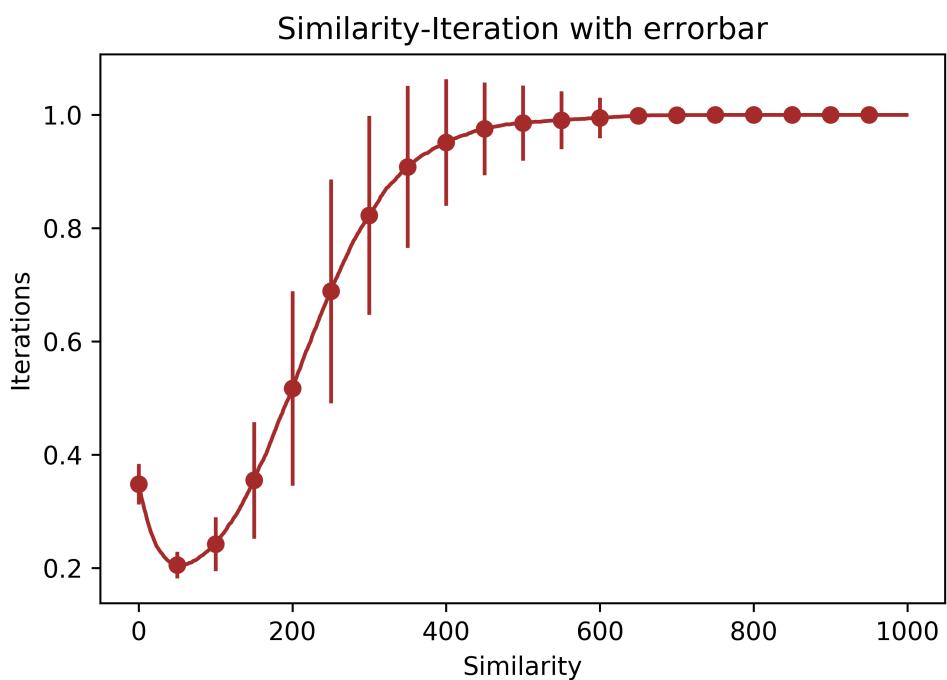


Figure 8: Similarity with error bar

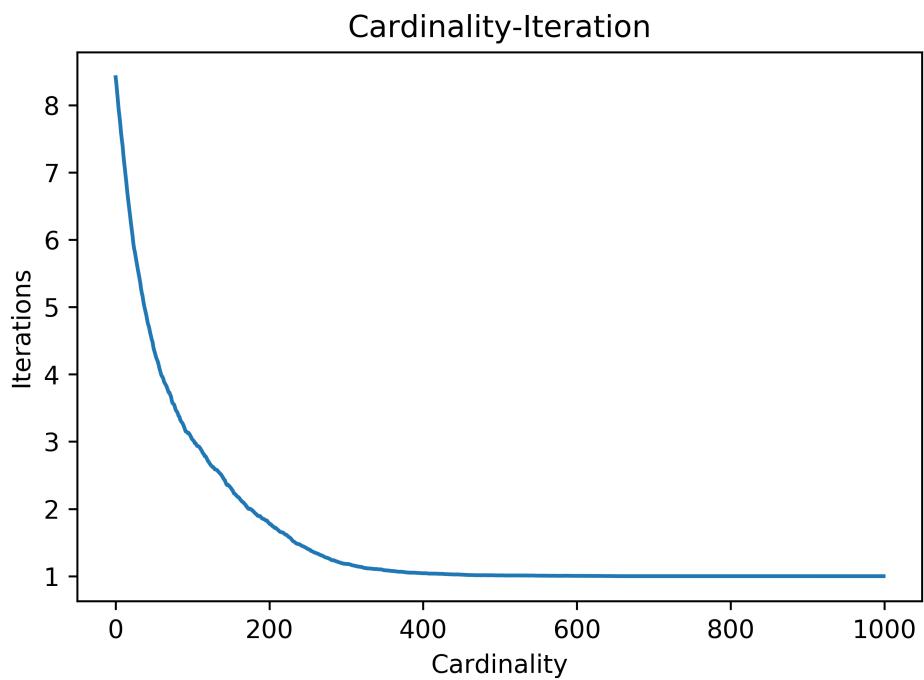


Figure 9: Cardinality

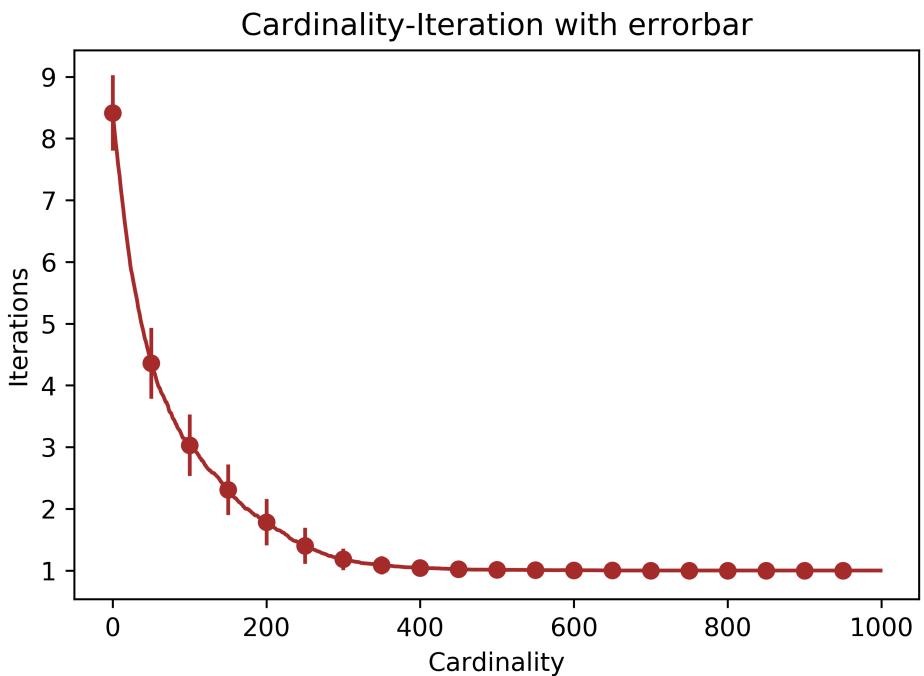


Figure 10: Cardinality with error bar

1.3 50_4_1000_300

Time used: 247.07707320986628

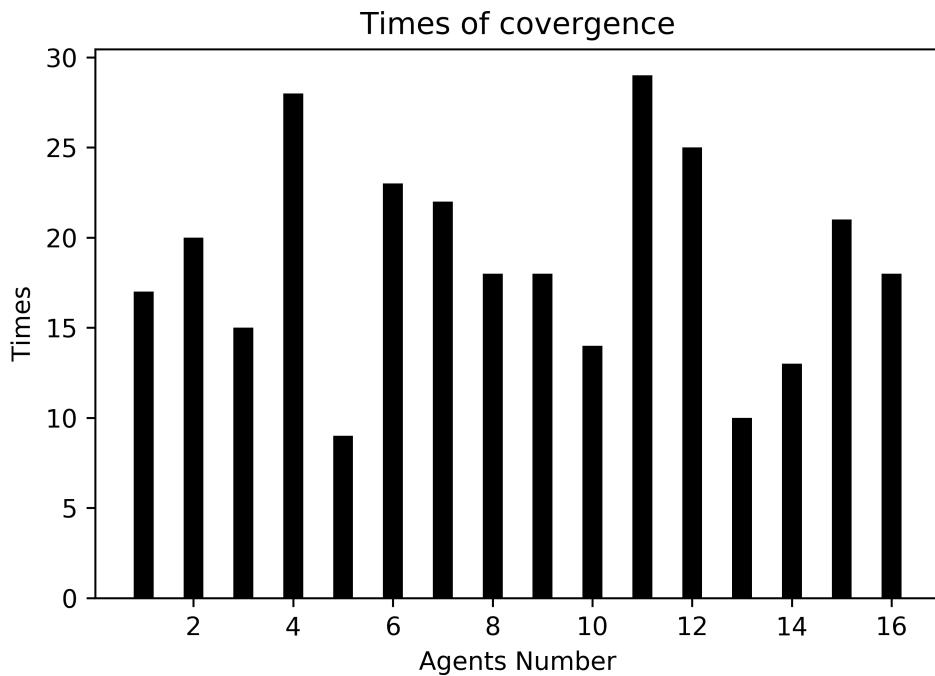


Figure 11: Where the iterations converge

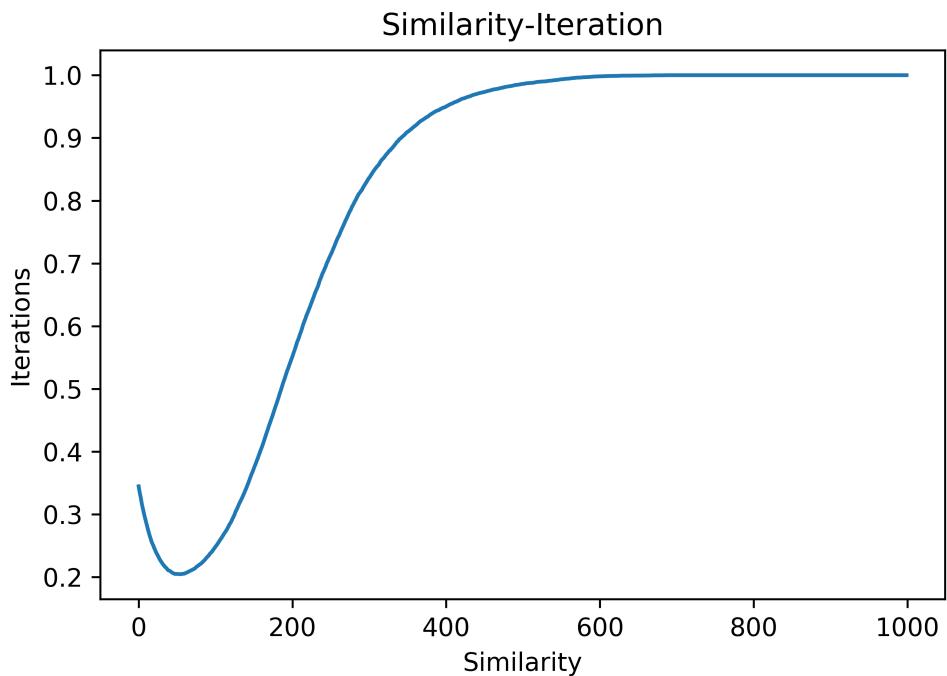


Figure 12: Similarity

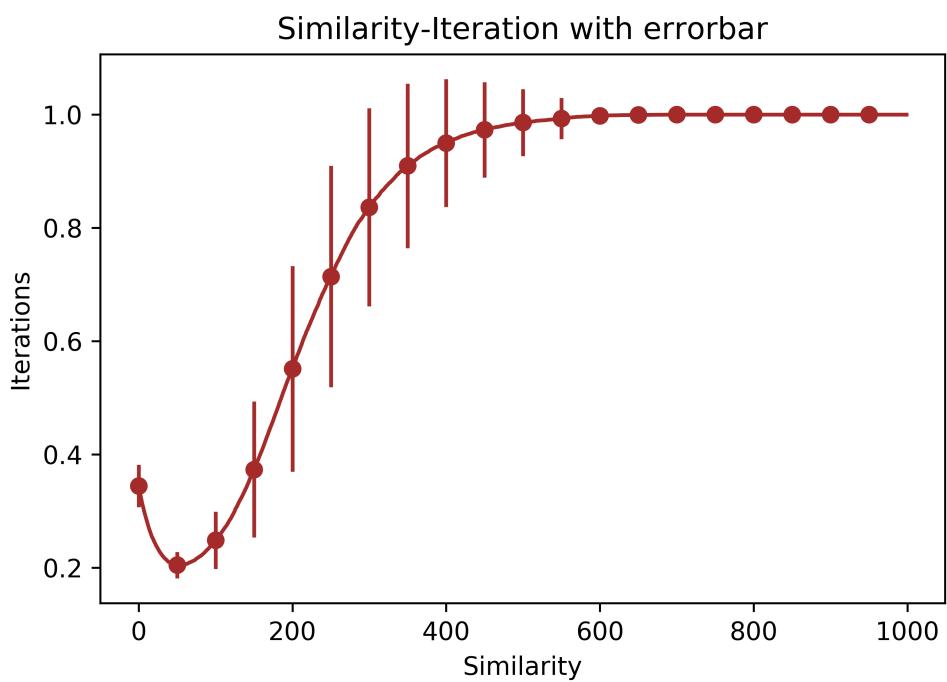


Figure 13: Similarity with error bar

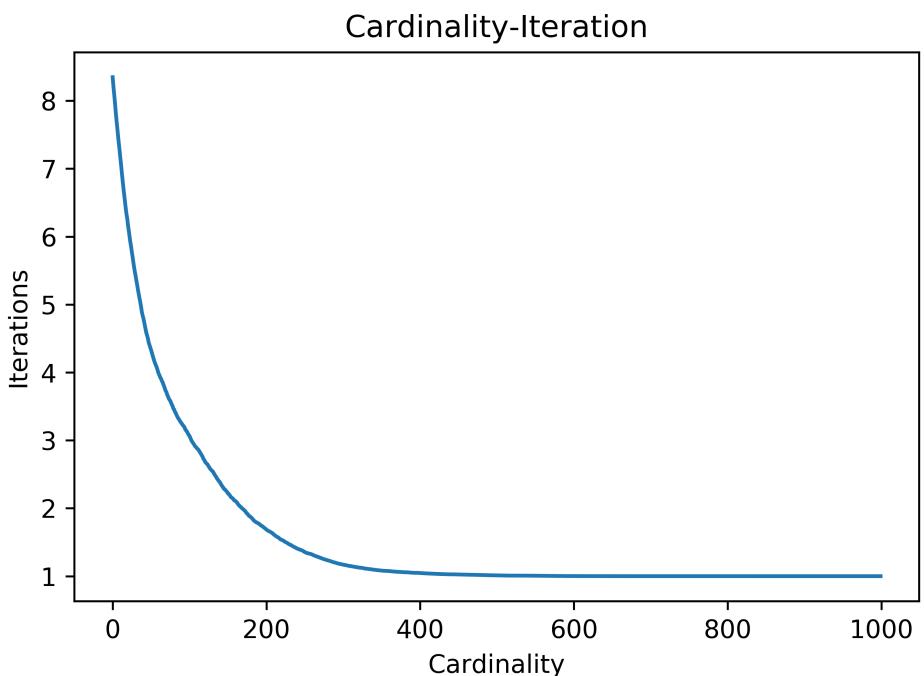


Figure 14: Cardinality

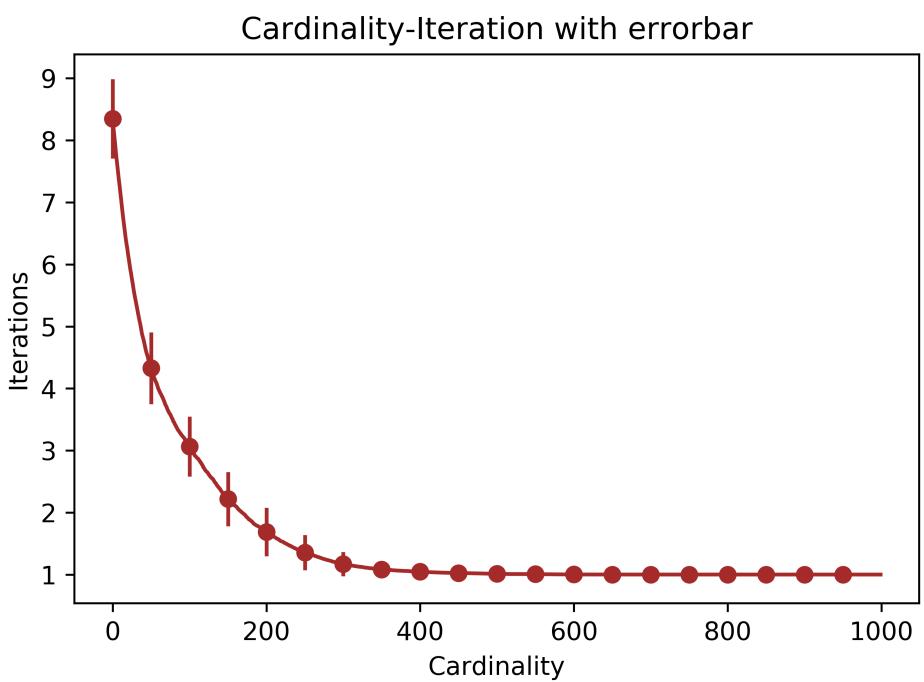


Figure 15: Cardinality with error bar

1.4 50_4_1000_800

Time used: 726.9702704230385

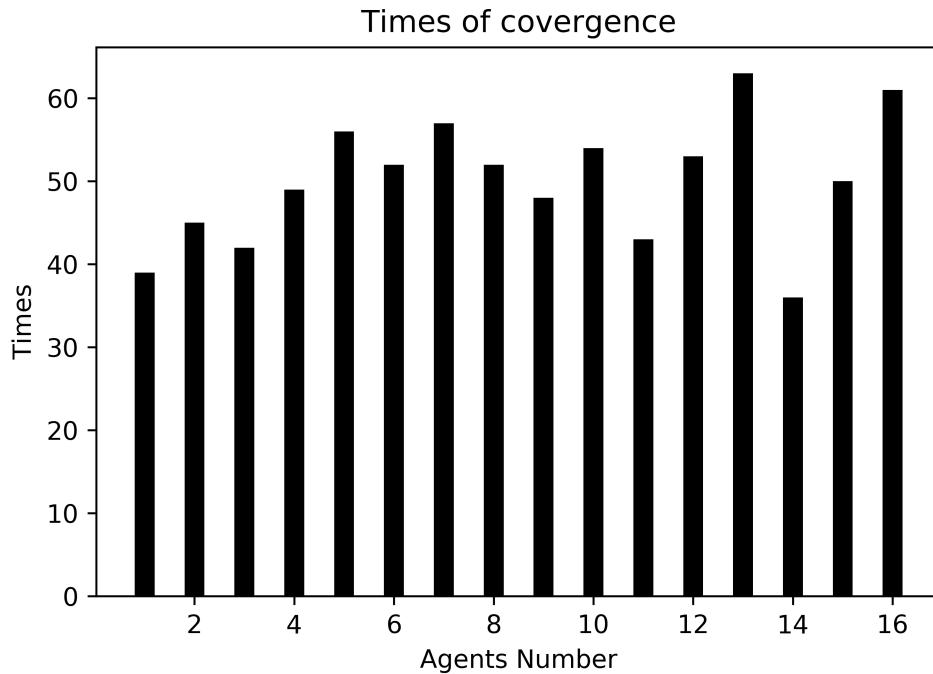


Figure 16: Where the iterations converge

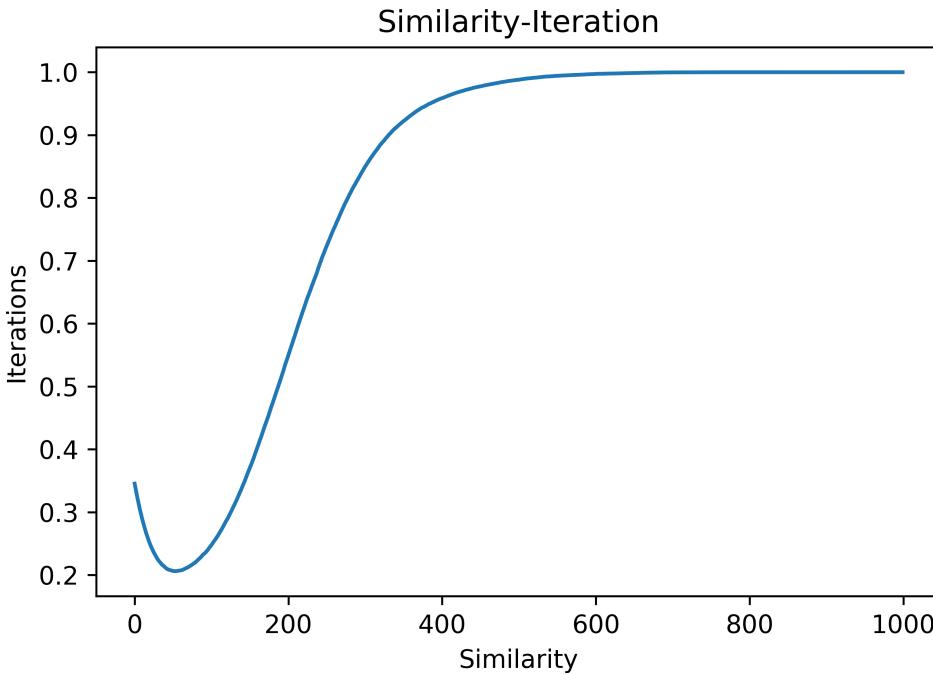


Figure 17: Similarity

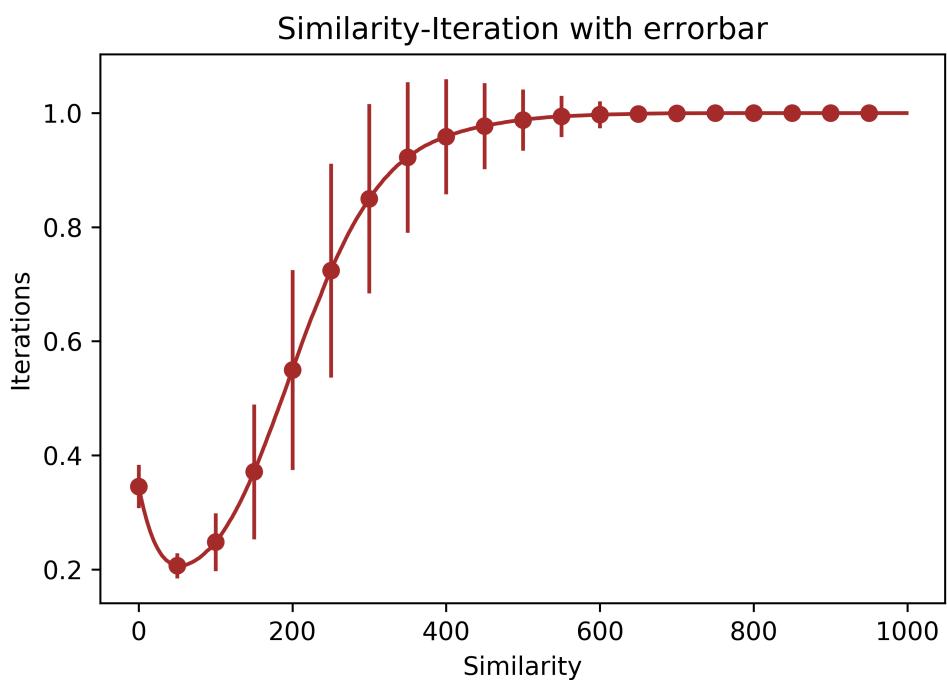


Figure 18: Similarity with error bar

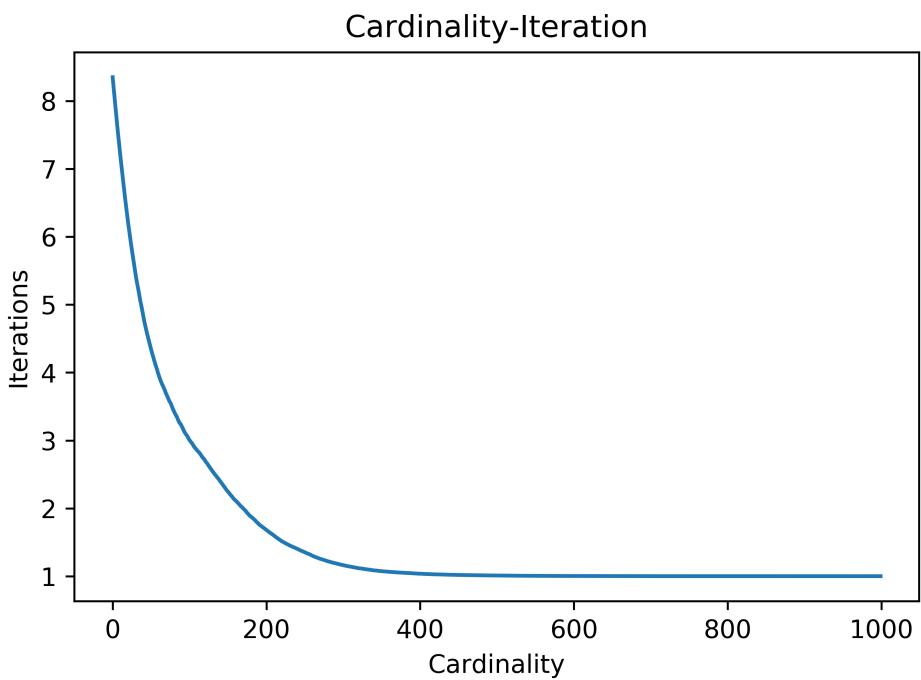


Figure 19: Cardinality

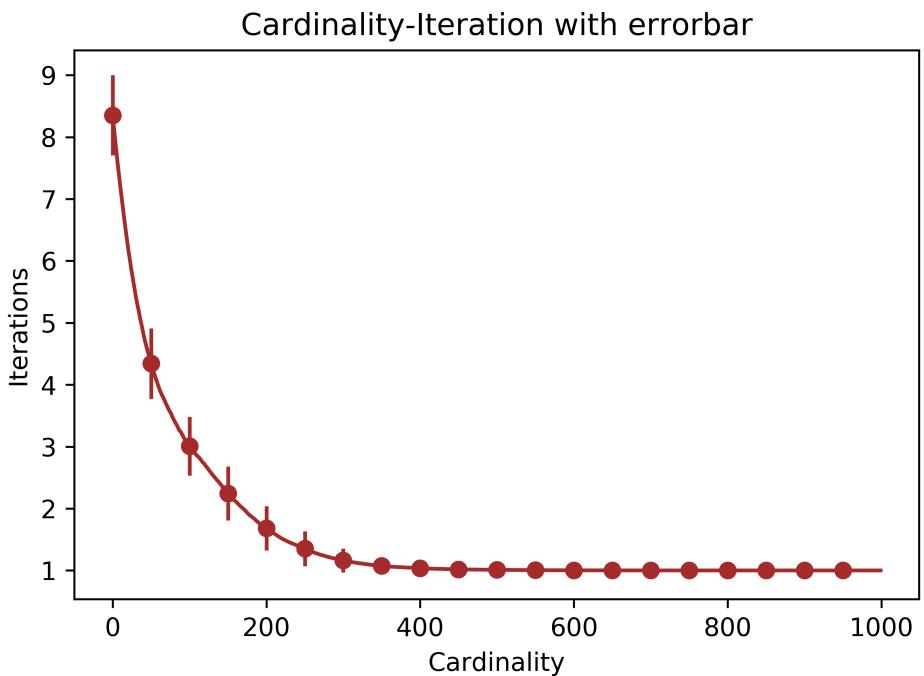


Figure 20: Cardinality with error bar

1.5 50_4_1000_800

Experiment 1

Time used: 1423.639460532976

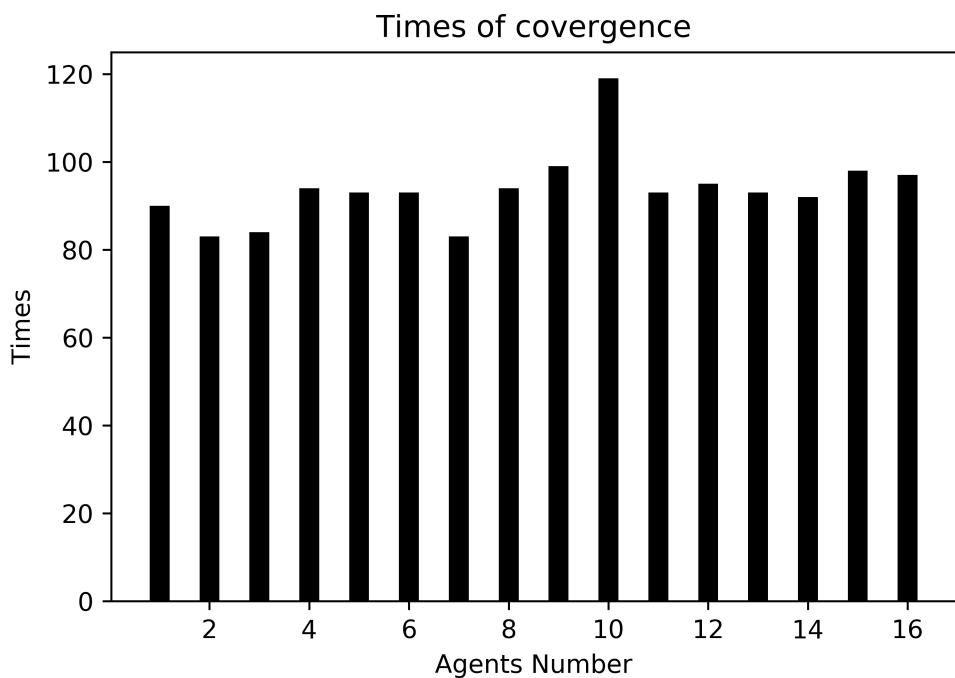


Figure 21: Where the iterations converge

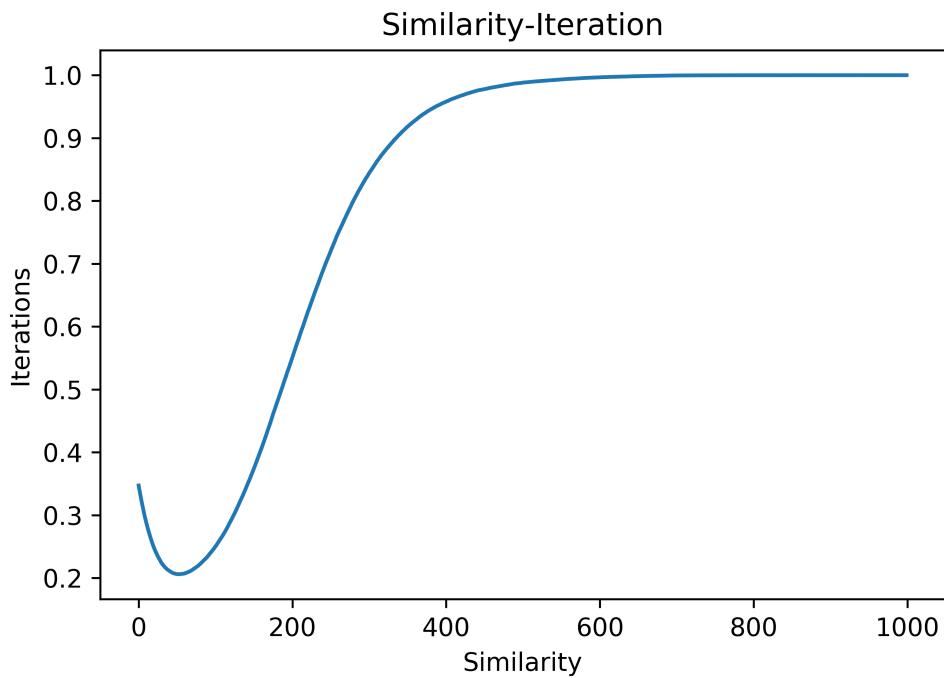


Figure 22: Similarity

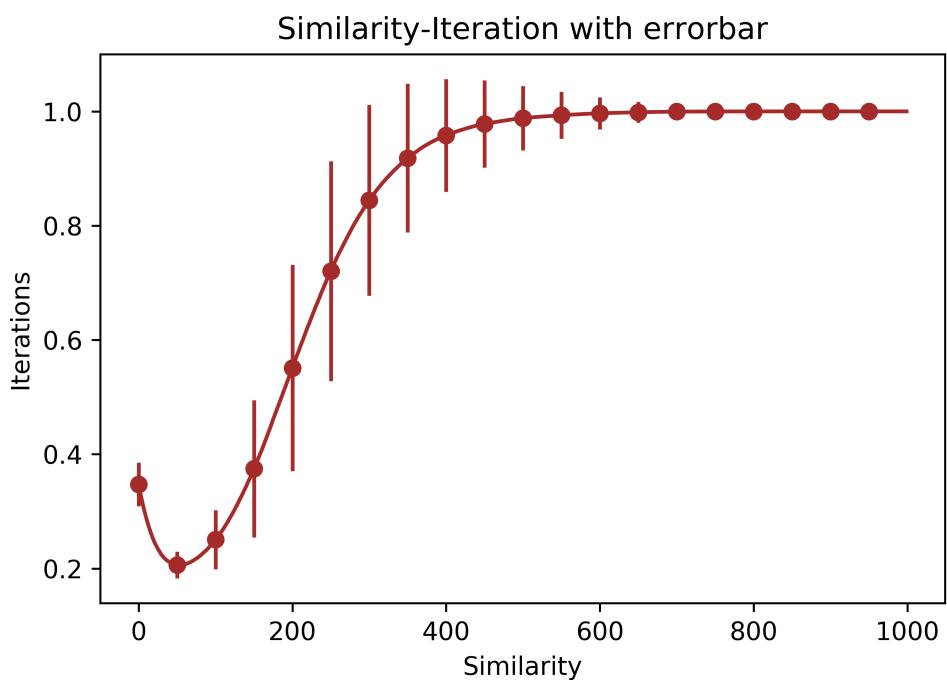


Figure 23: Similarity with error bar

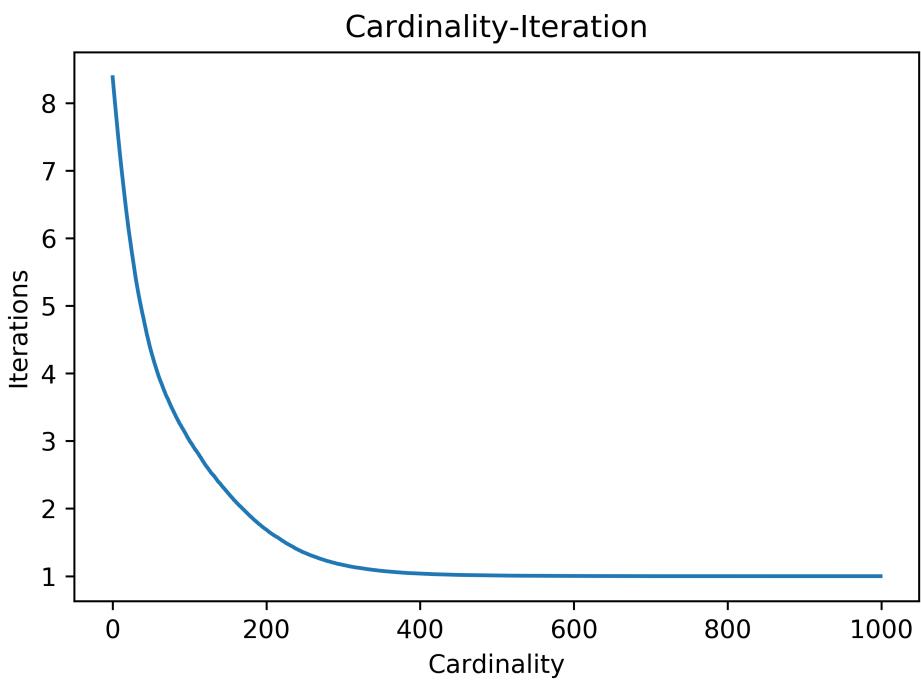


Figure 24: Cardinality

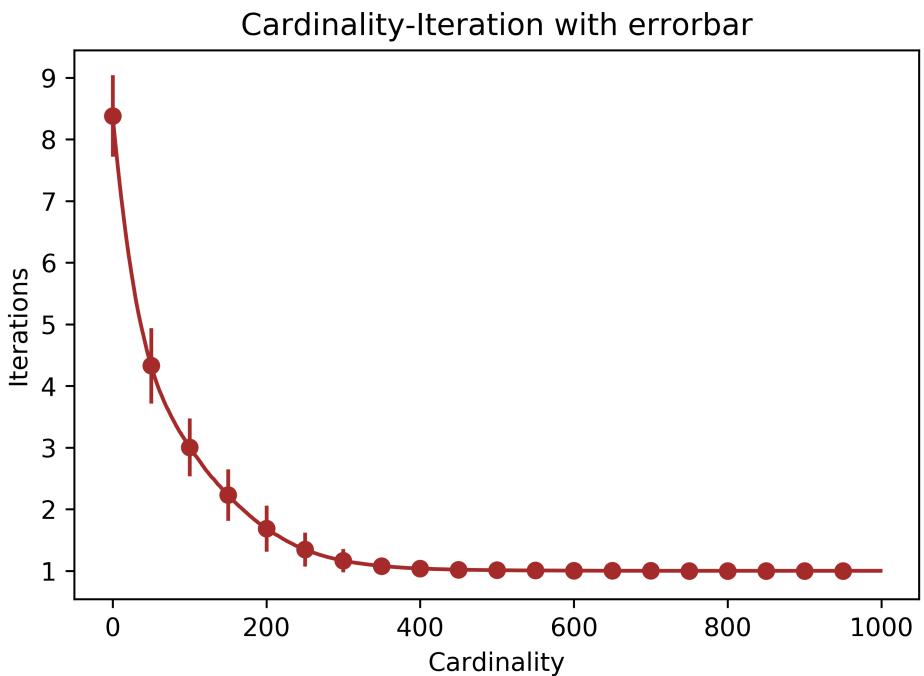


Figure 25: Cardinality with error bar

Experiment 2

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

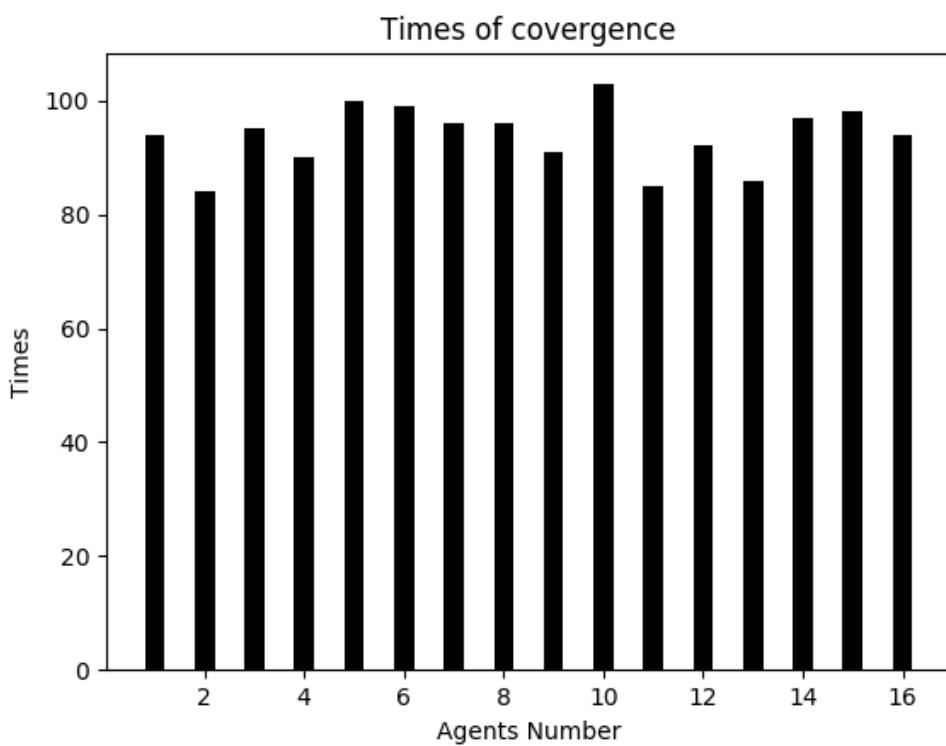


Figure 26: Where the iterations converge

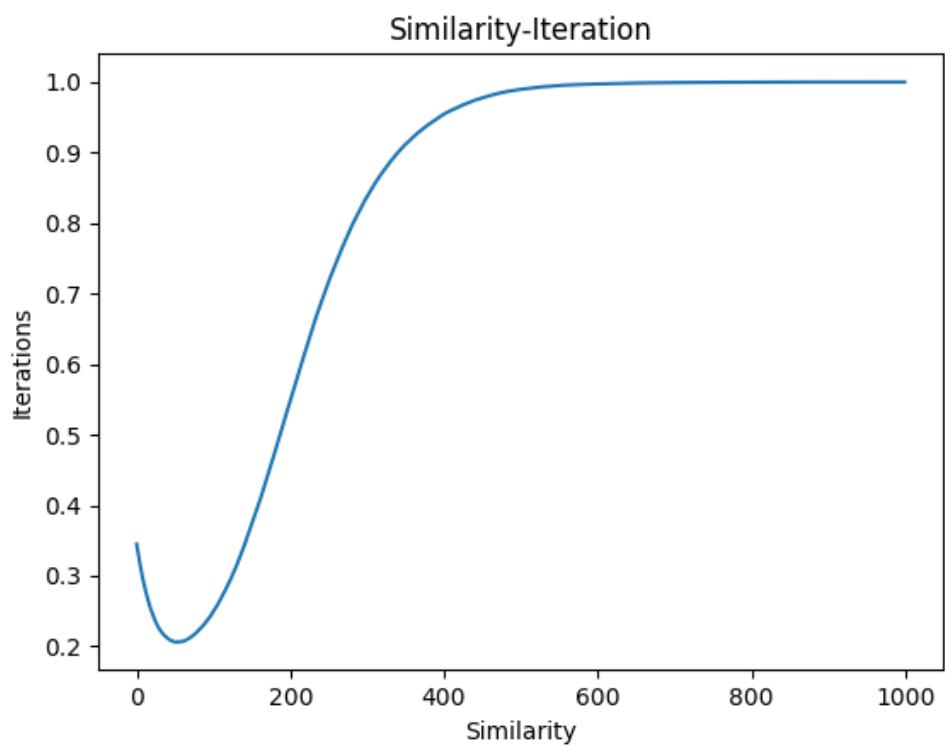


Figure 27: Similarity

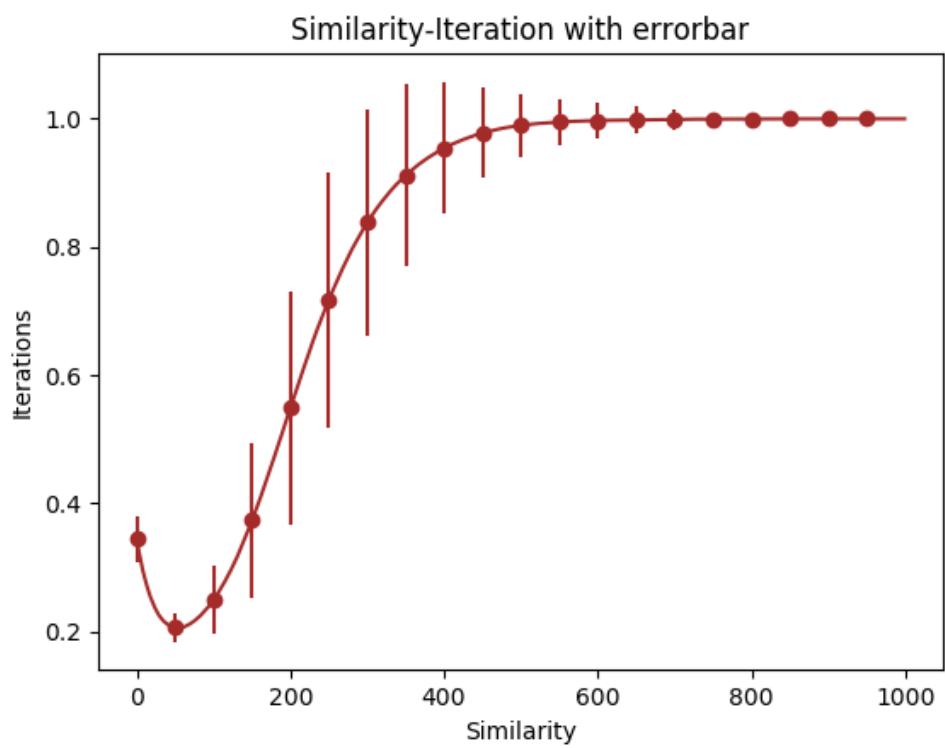


Figure 28: Similarity with error bar

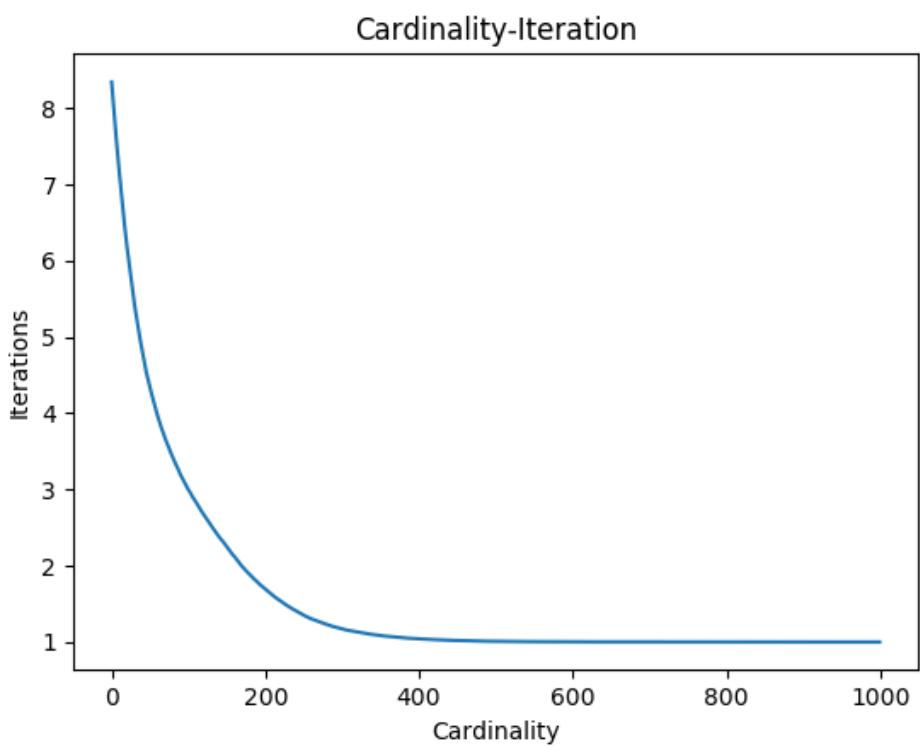


Figure 29: Cardinality

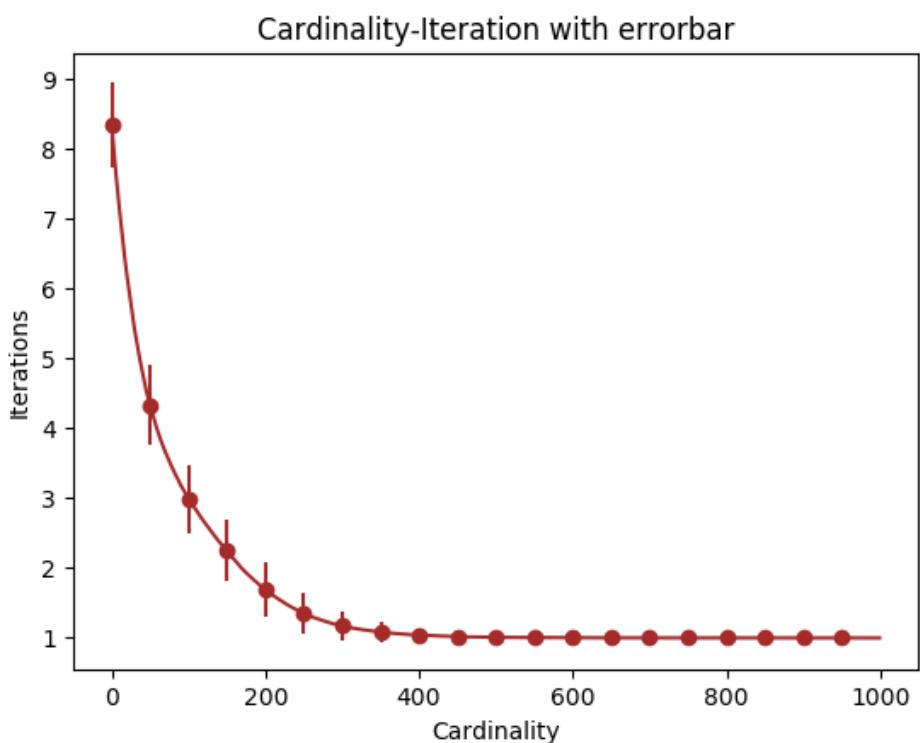


Figure 30: Cardinality with error bar

Experiment 3

Time used: 1232.8931827431234

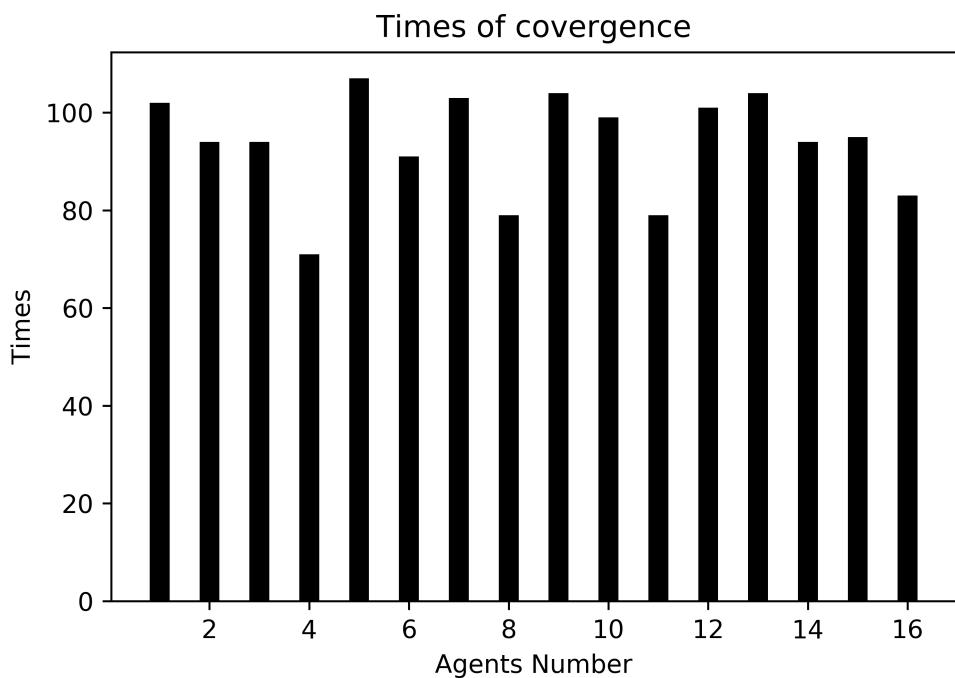


Figure 31: Where the iterations converge

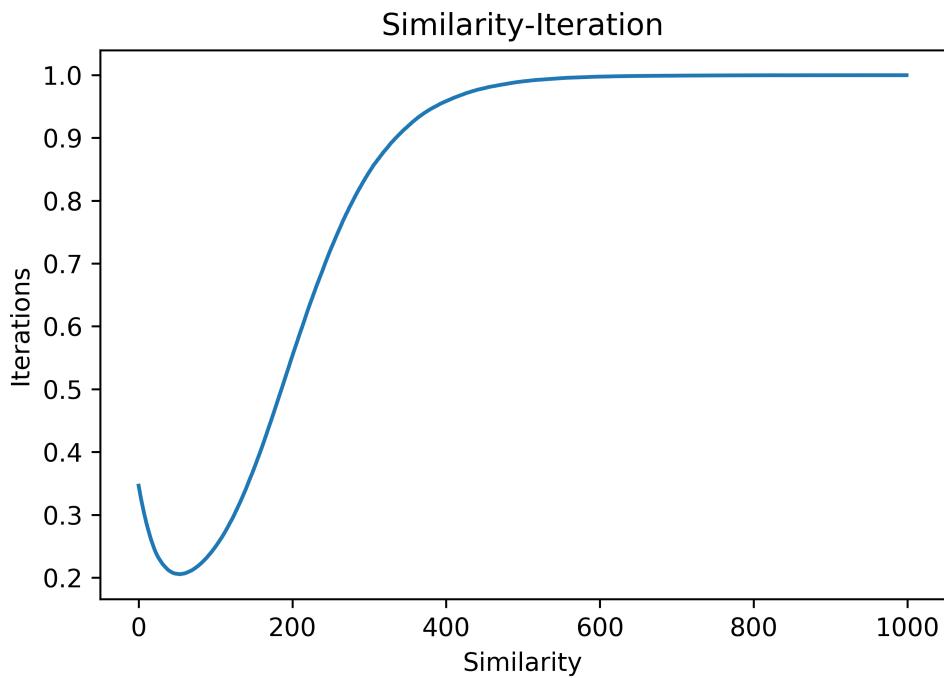


Figure 32: Similarity

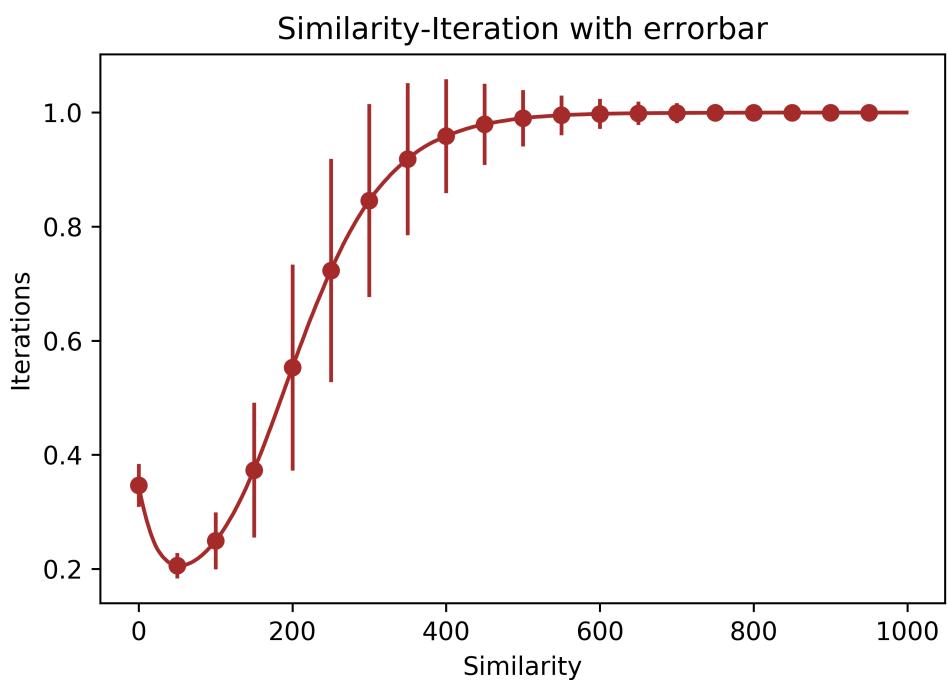


Figure 33: Similarity with error bar

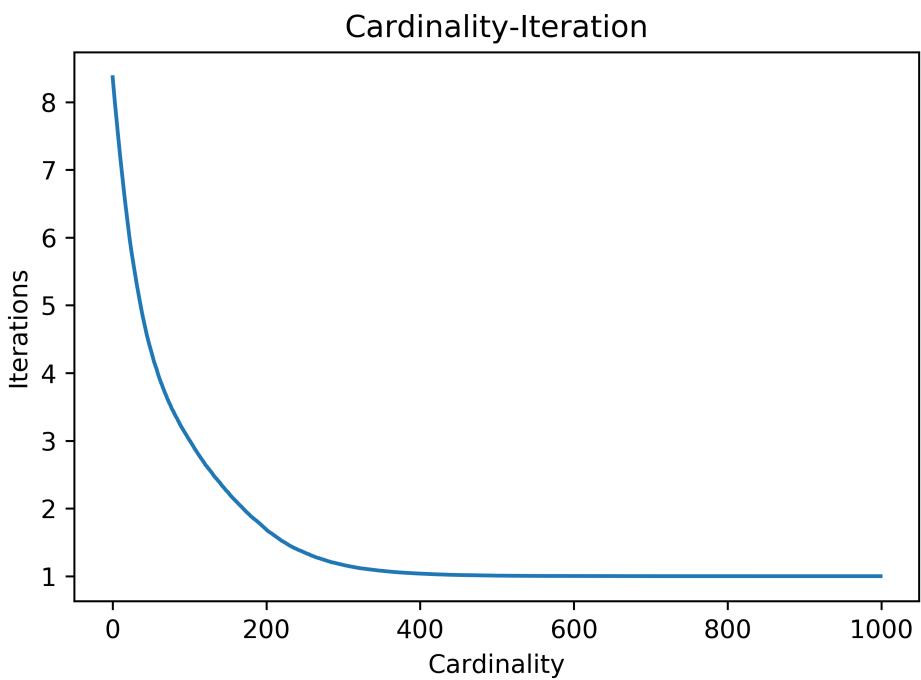


Figure 34: Cardinality

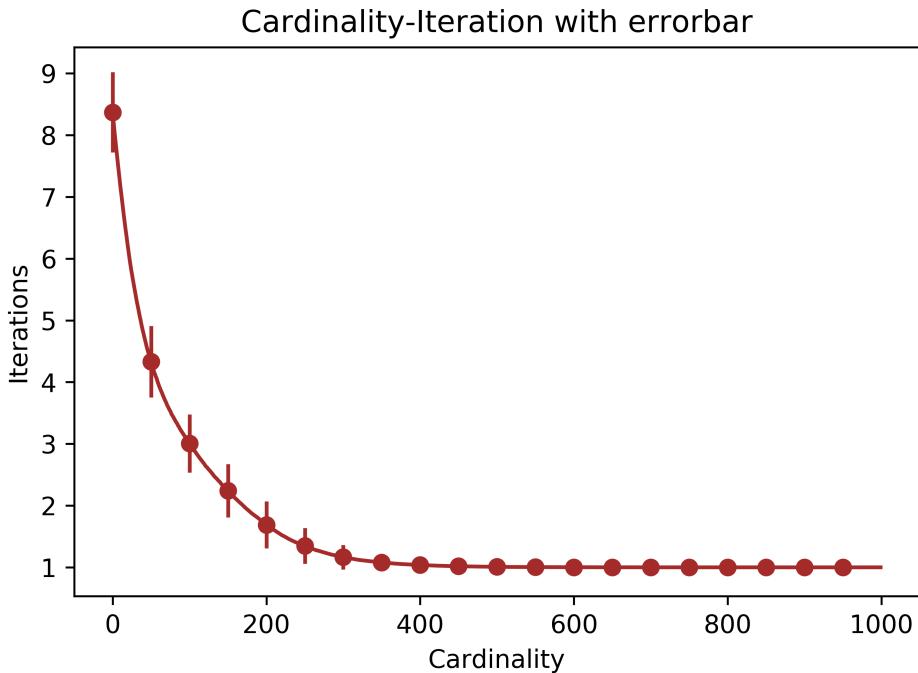


Figure 35: Cardinality with error bar

2 Simulation Results with random initialise combine beliefs based on hamming distance(min)

the title: number of agents_propositions_iteration_Times run_threshold(Hamming distance)

2.1 50_4_1000_100_0.5

Time used: 84.14613086056161s

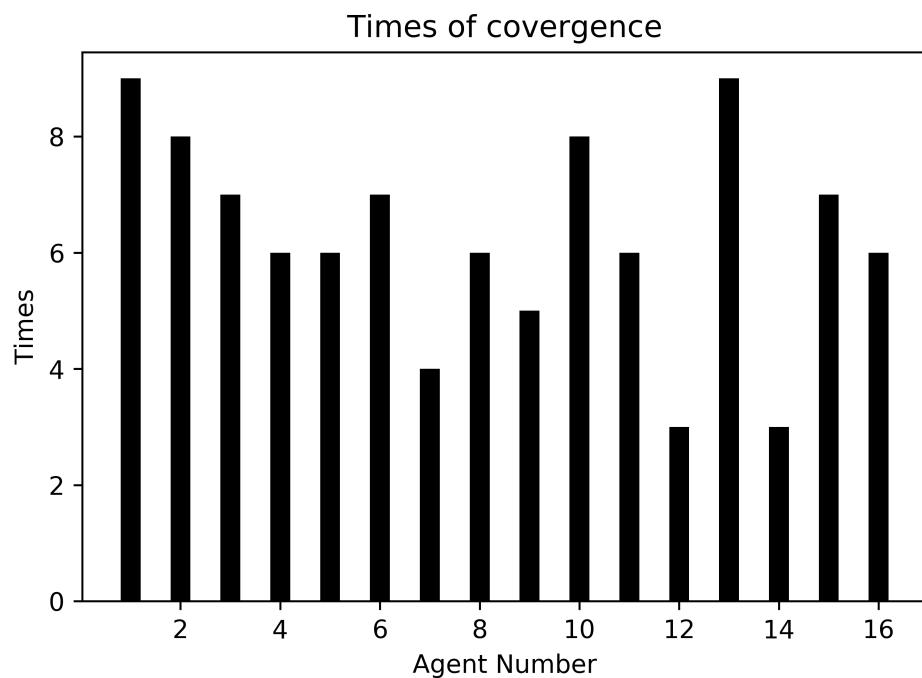


Figure 36: Where the iterations converge

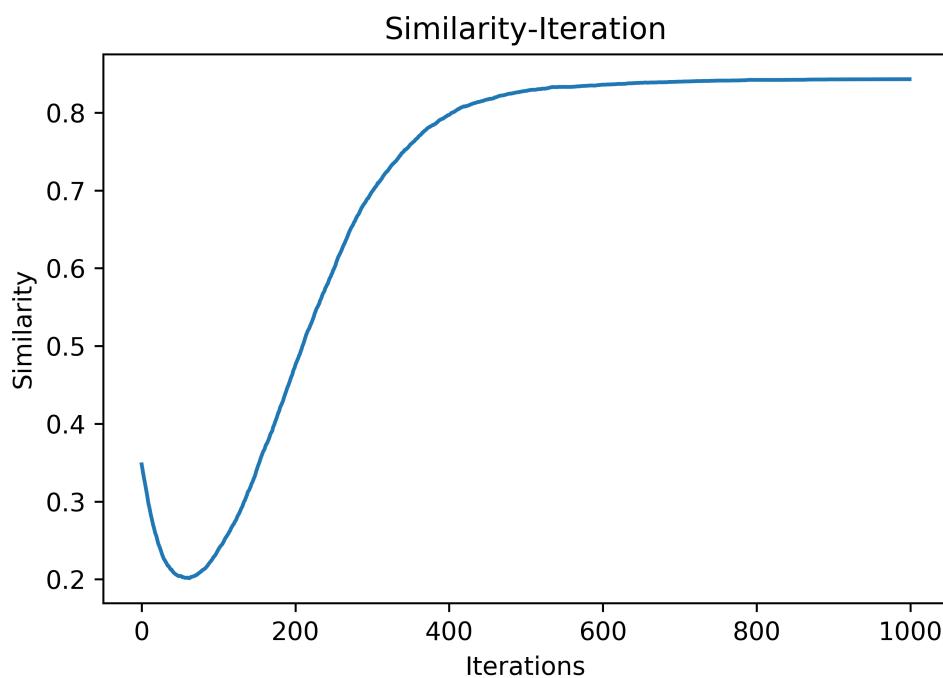


Figure 37: Similarity

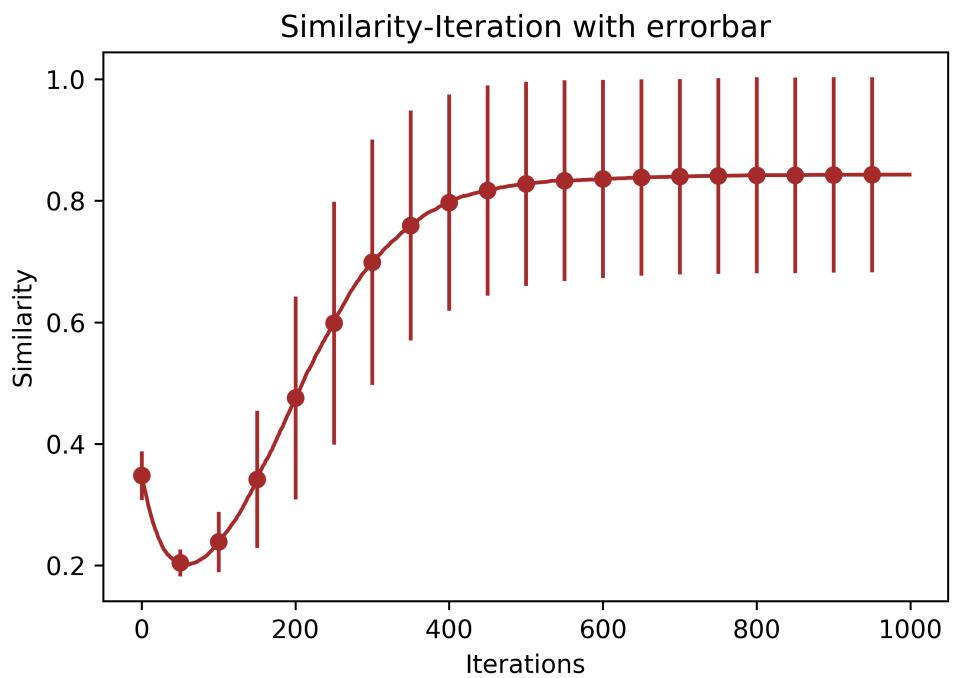


Figure 38: Similarity with error bar

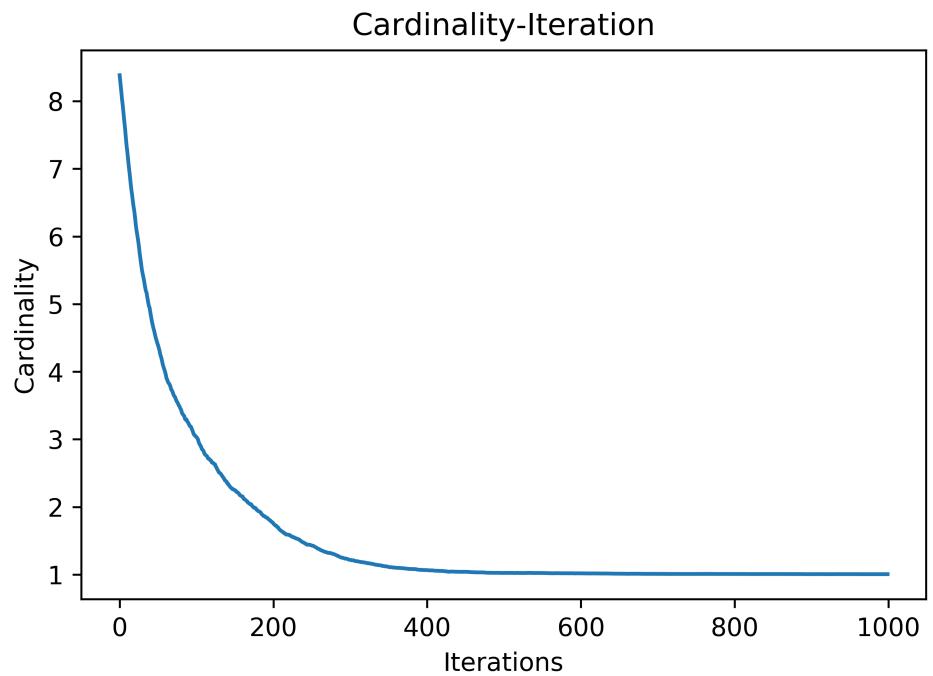


Figure 39: Cardinality

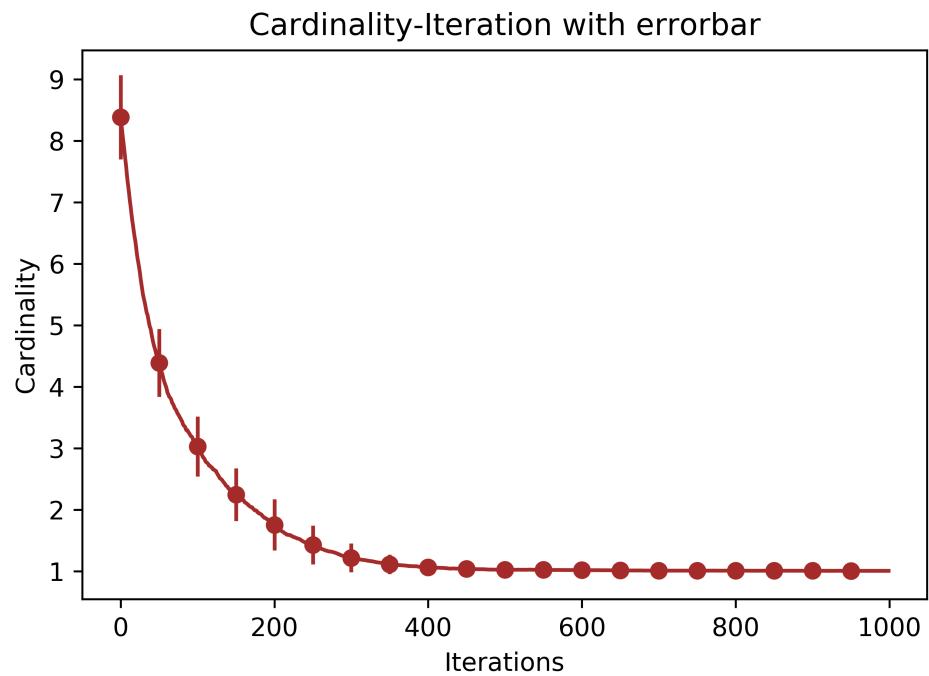


Figure 40: Cardinality with error bar

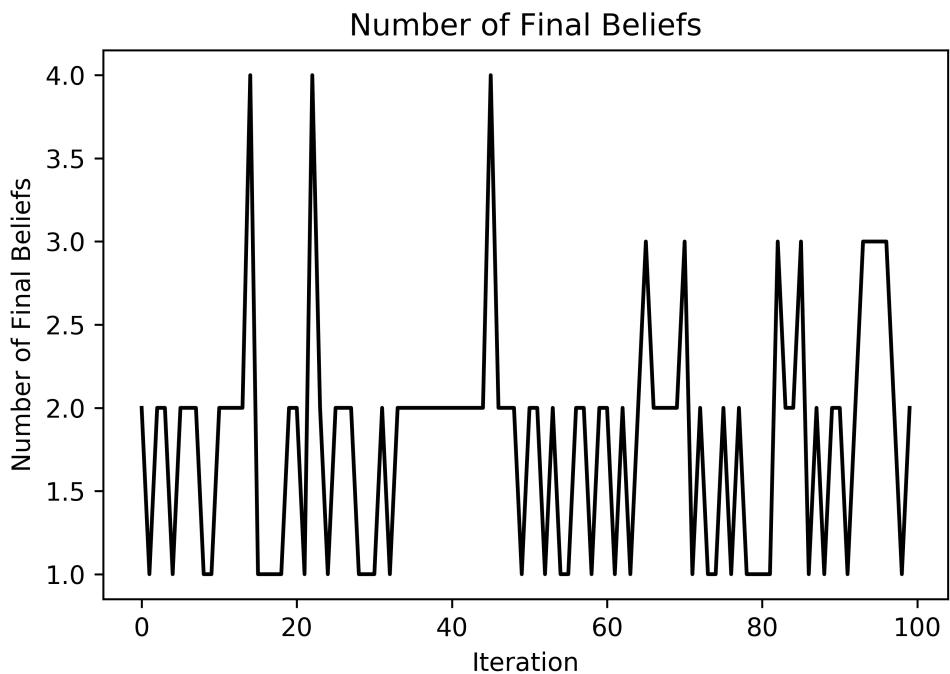


Figure 41: Cardinality with error bar

2.2 50_5_1200_100_0.3

Time used: 107.05263902594515s

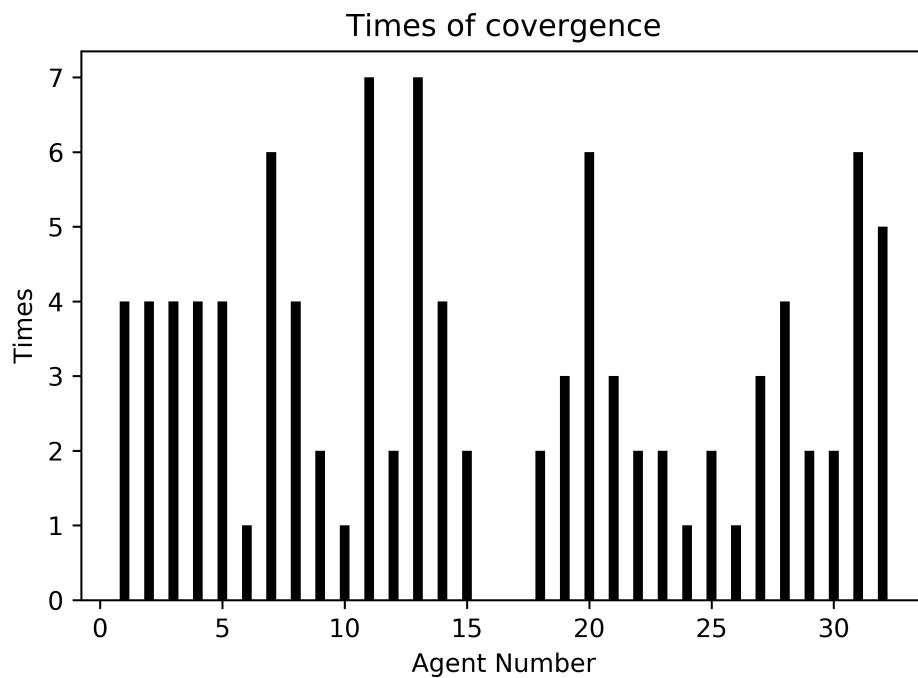


Figure 42: Where the iterations converge

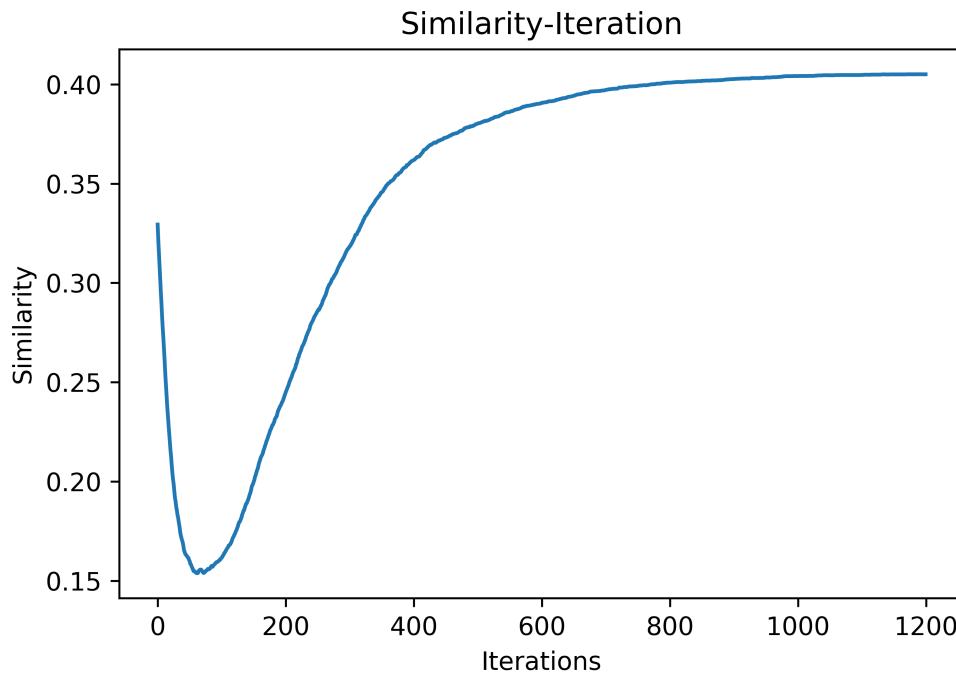


Figure 43: Similarity

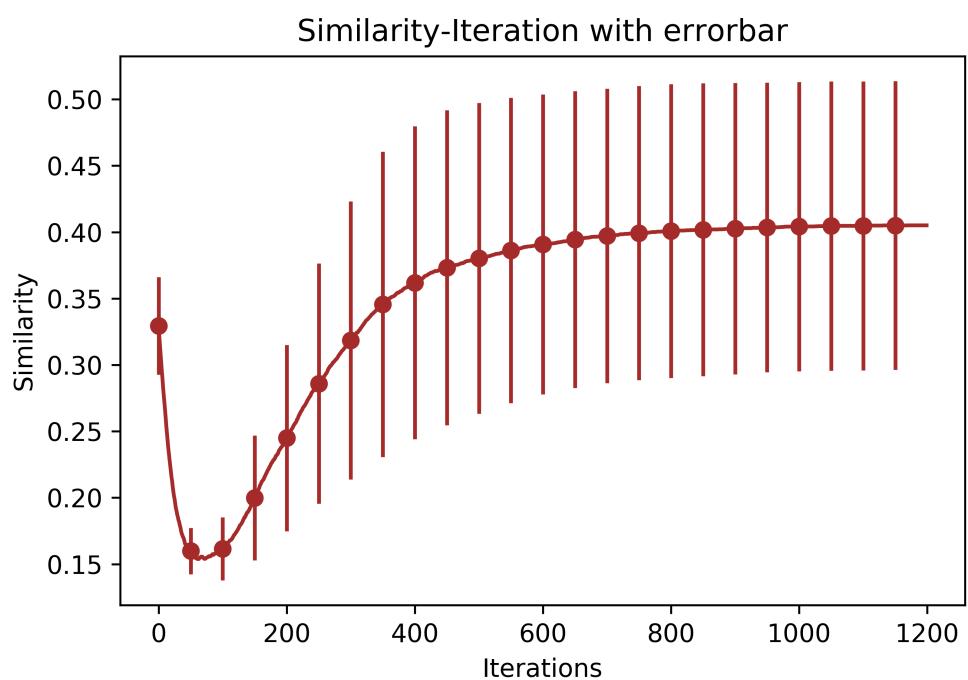


Figure 44: Similarity with error bar

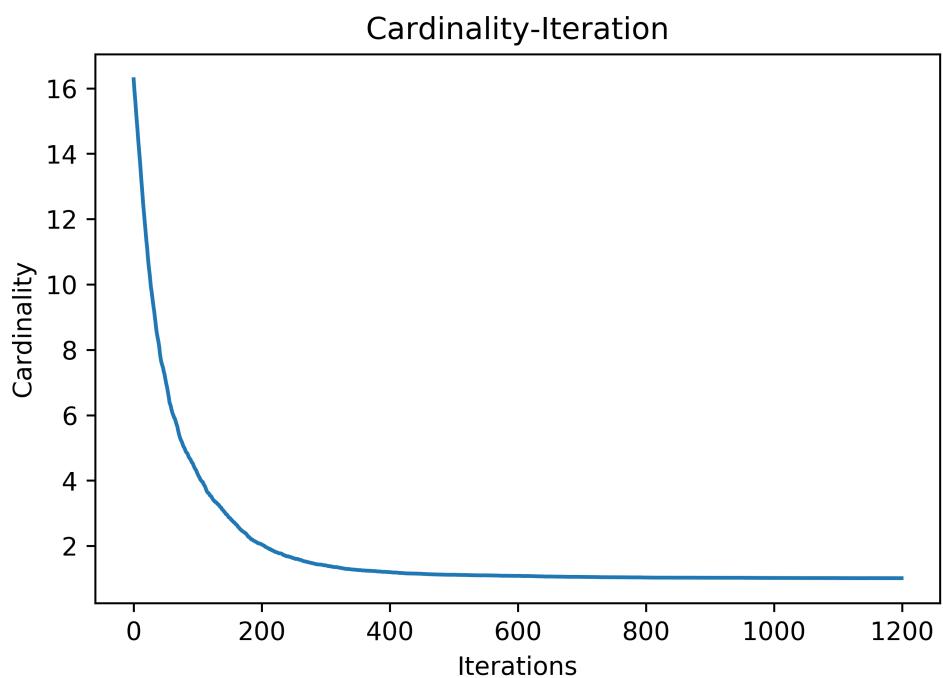


Figure 45: Cardinality

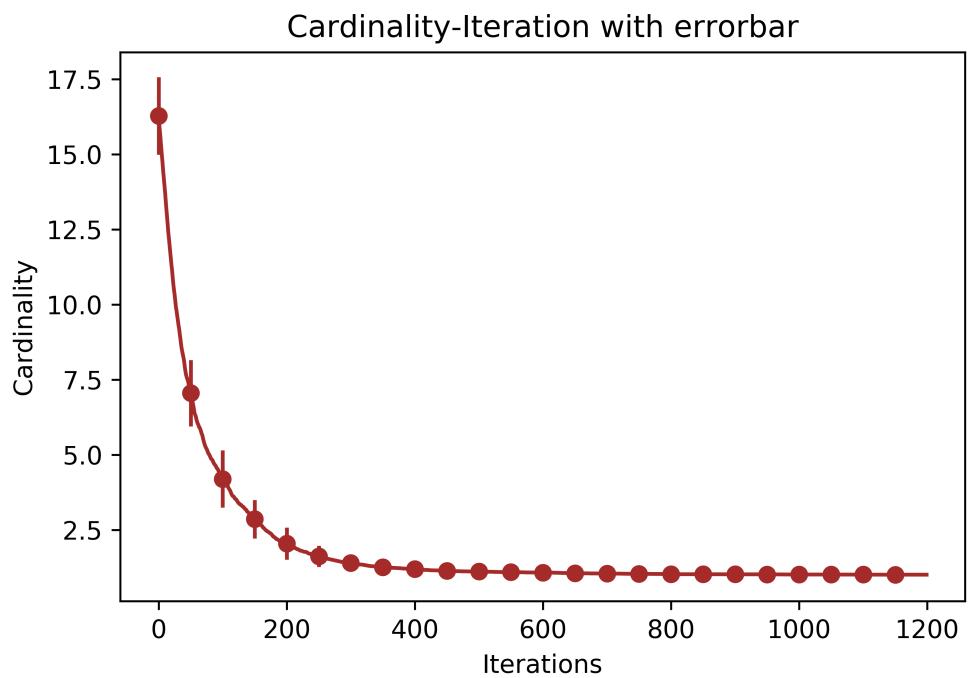


Figure 46: Cardinality with error bar

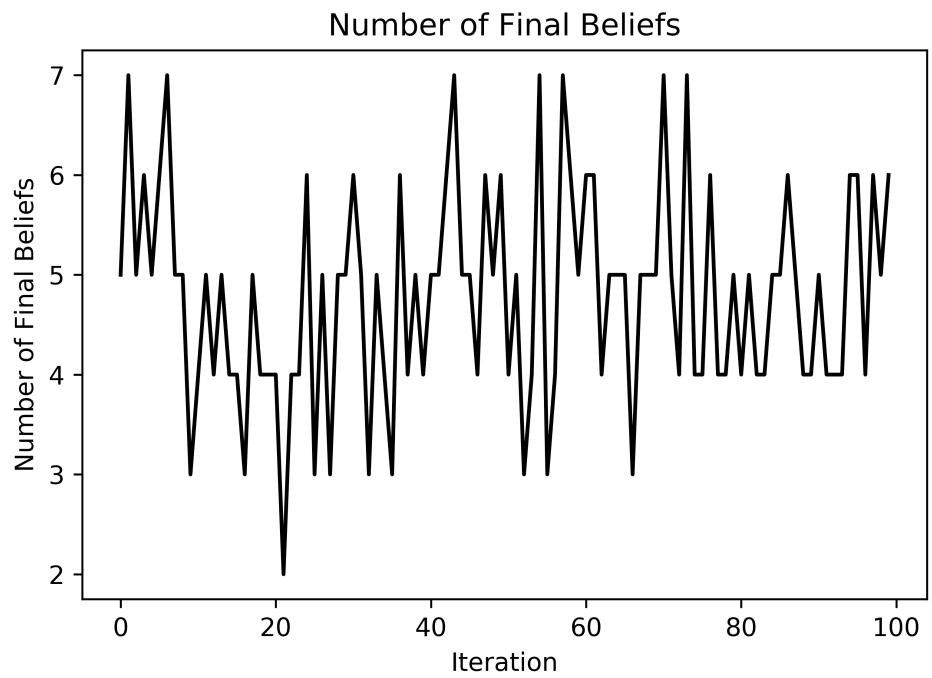


Figure 47: Cardinality with error bar

2.3 50_5_1200_100_0.5

Time used: 104.99307195062624s

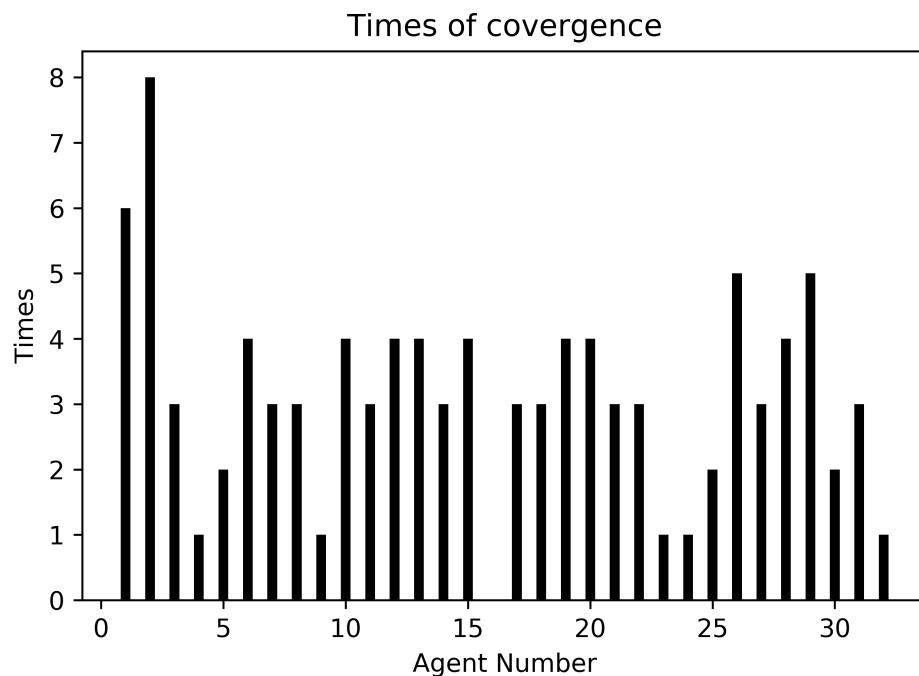


Figure 48: Where the iterations converge

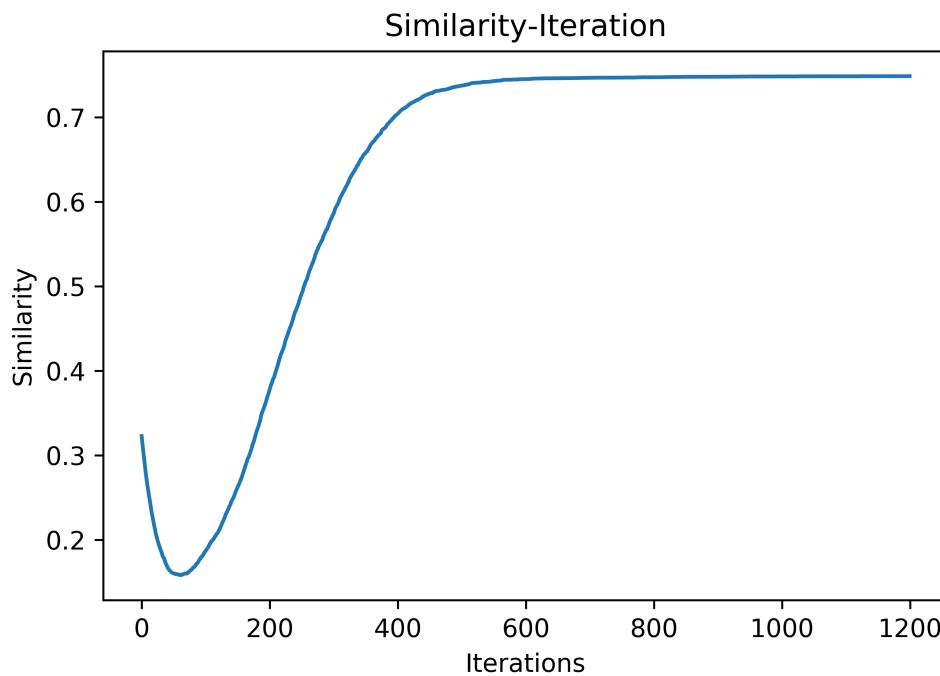


Figure 49: Similarity

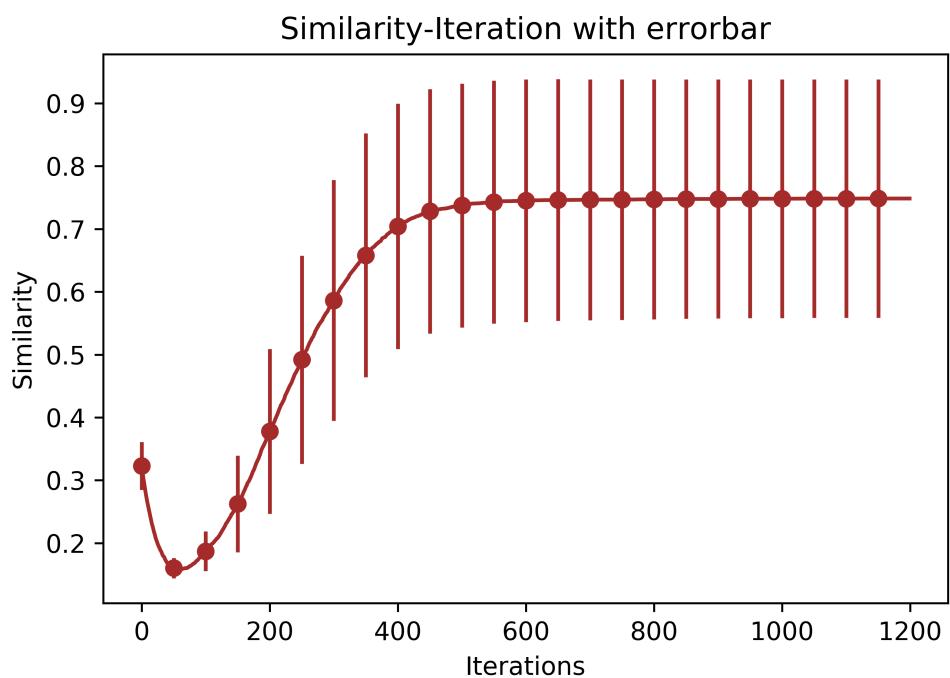


Figure 50: Similarity with error bar

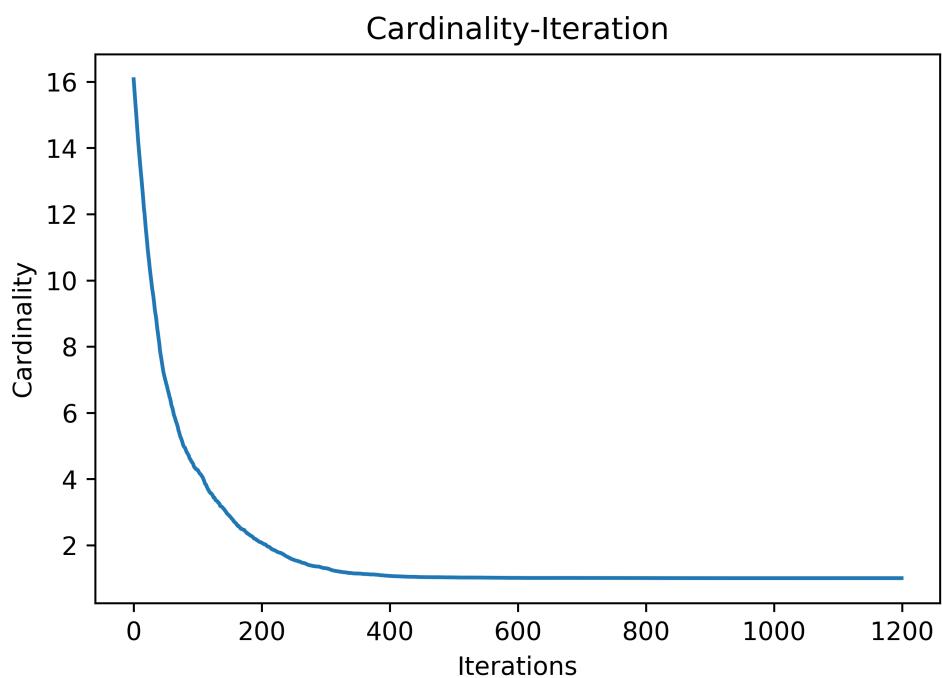


Figure 51: Cardinality

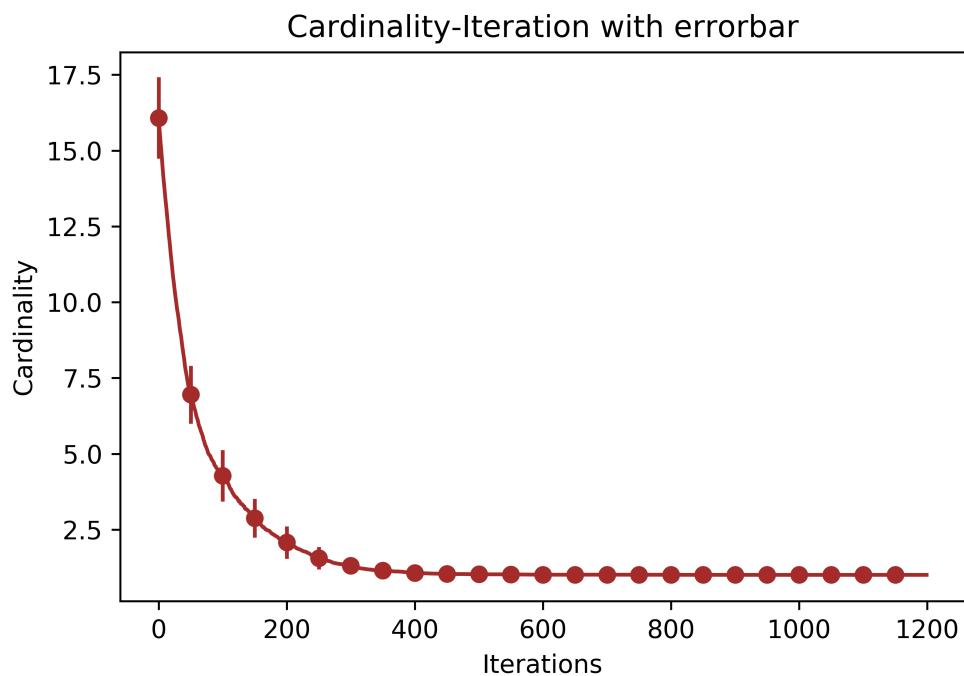


Figure 52: Cardinality with error bar

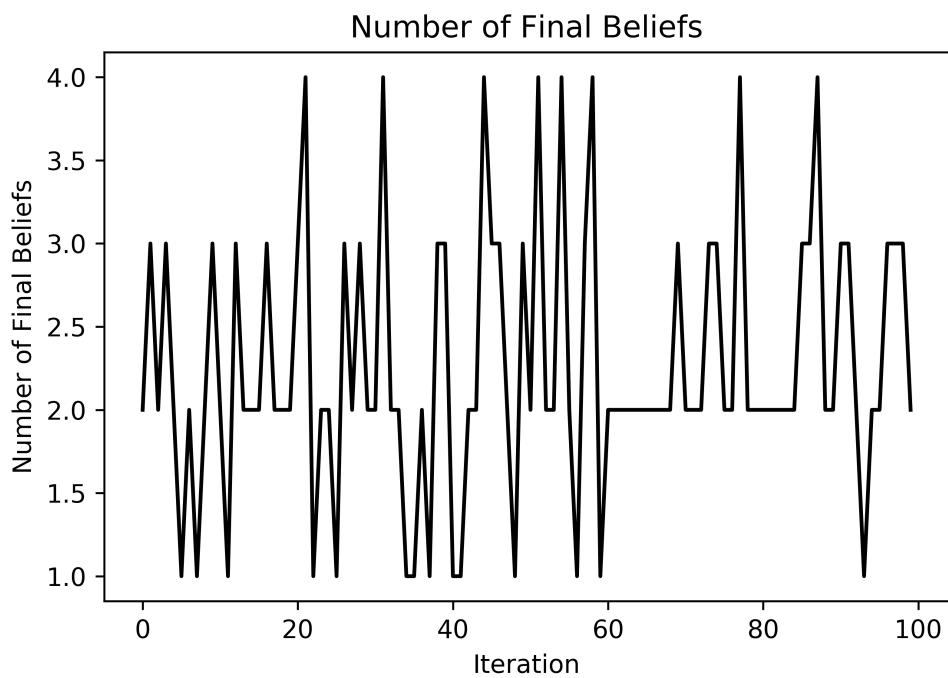


Figure 53: Cardinality with error bar

2.4 100_4_1500_100_0.5

Time used: 547.3942672014223s

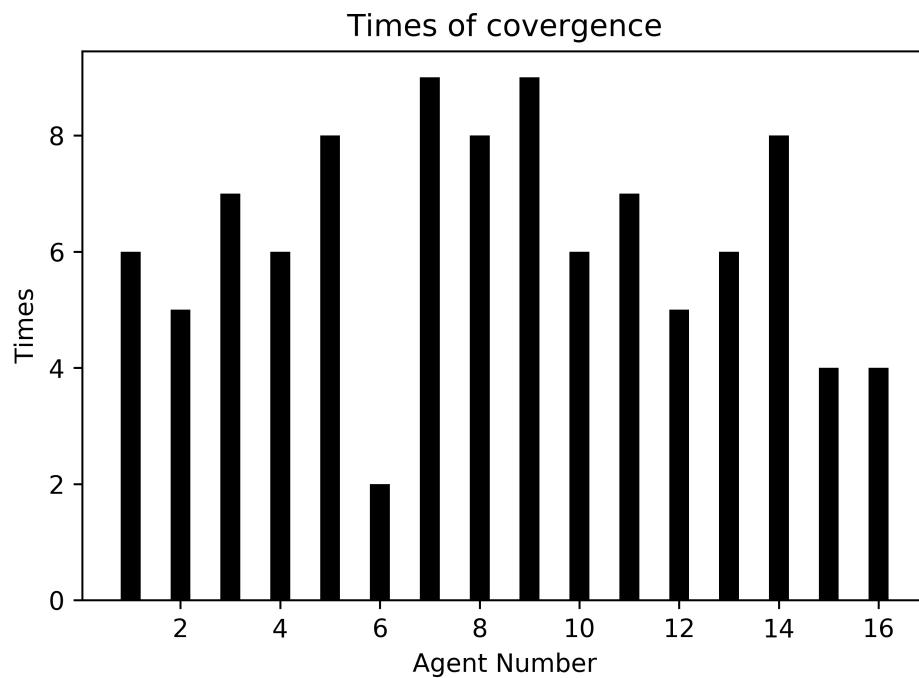


Figure 54: Where the iterations converge

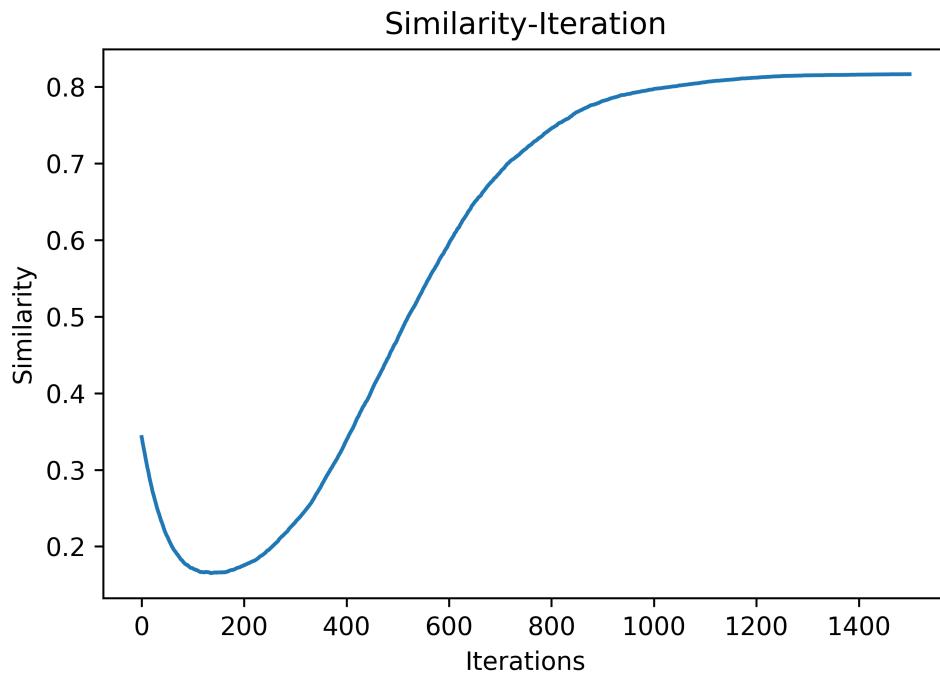


Figure 55: Similarity

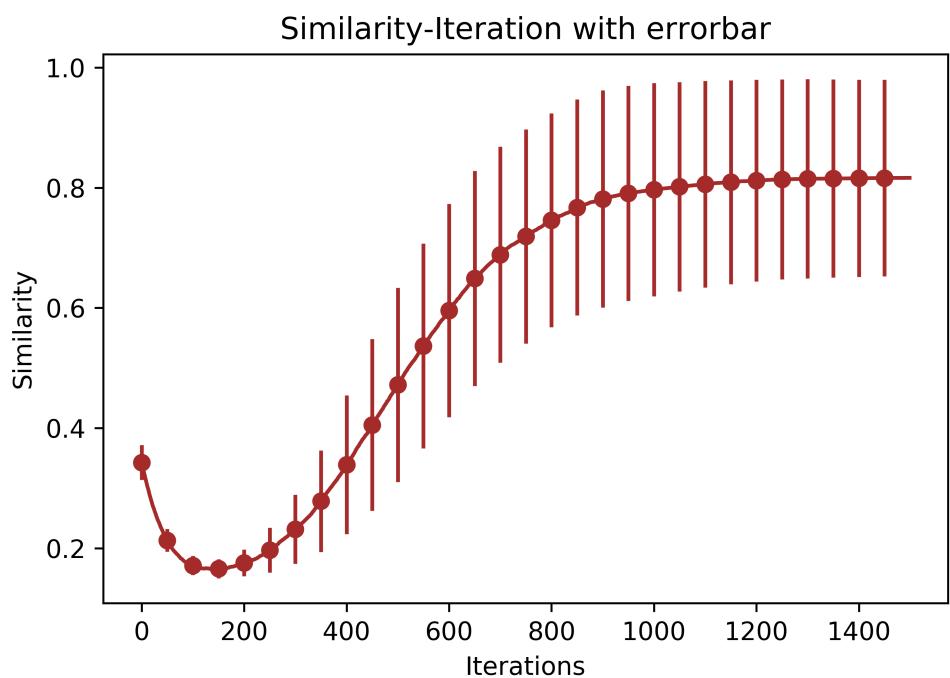


Figure 56: Similarity with error bar

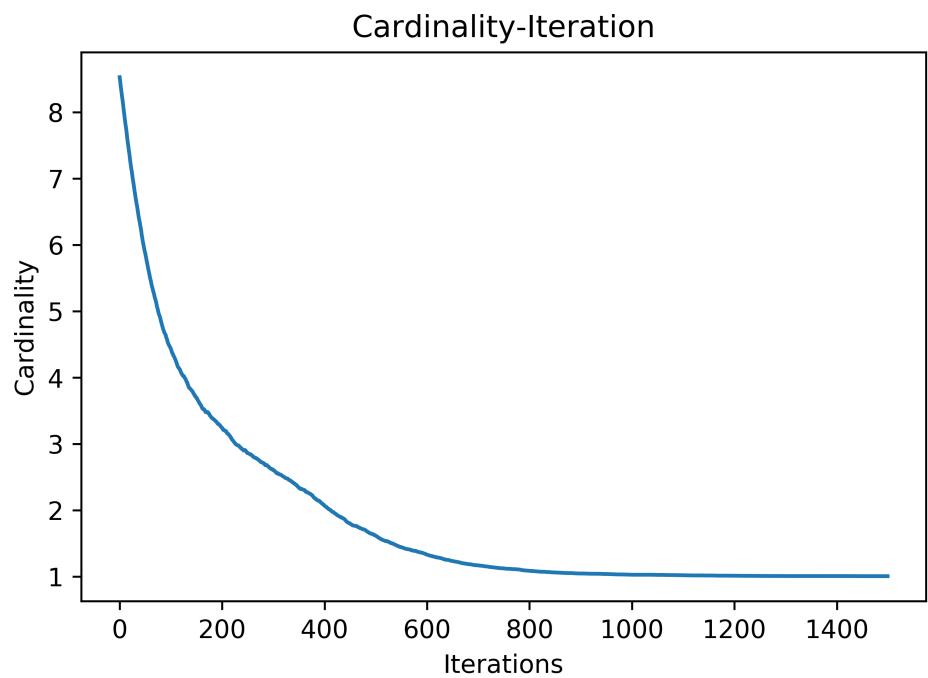


Figure 57: Cardinality

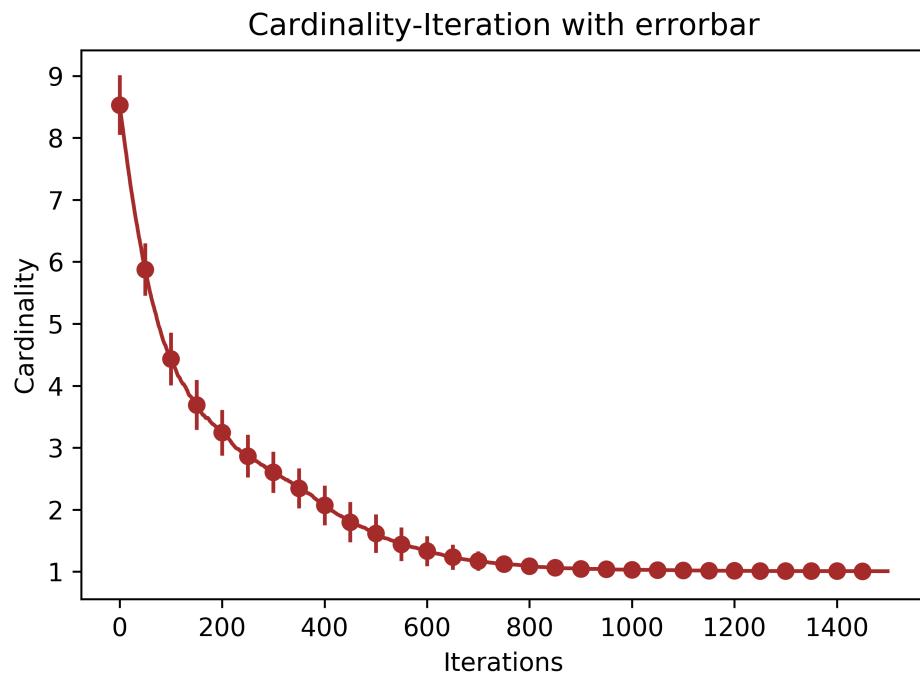


Figure 58: Cardinality with error bar

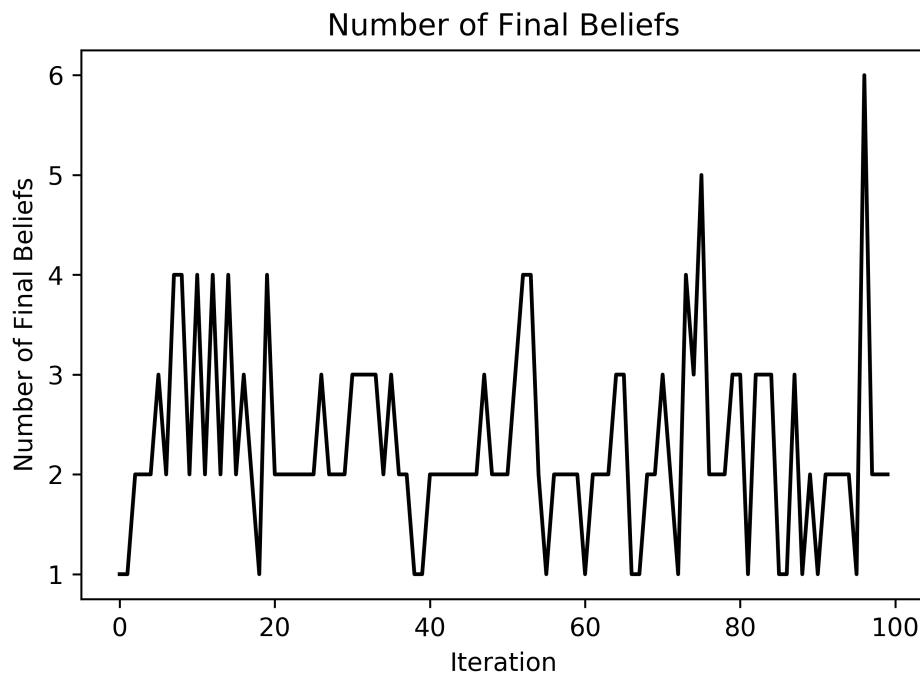


Figure 59: Cardinality with error bar

3 Simulation Results with random initialise combine beliefs based on hamming distance(min)

the title: number_of_agents_propositions_iteration_Times_run_threshold(Hamming distance)

3.1 100_4_1500_100_0.5

Time used: 113.40667891238468s

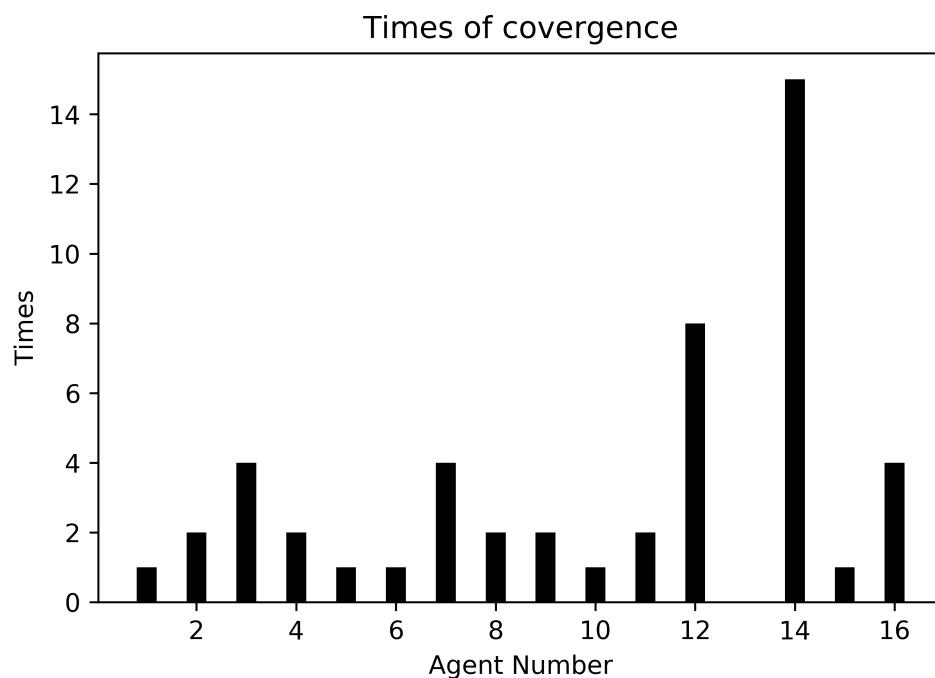


Figure 60: Where the iterations converge

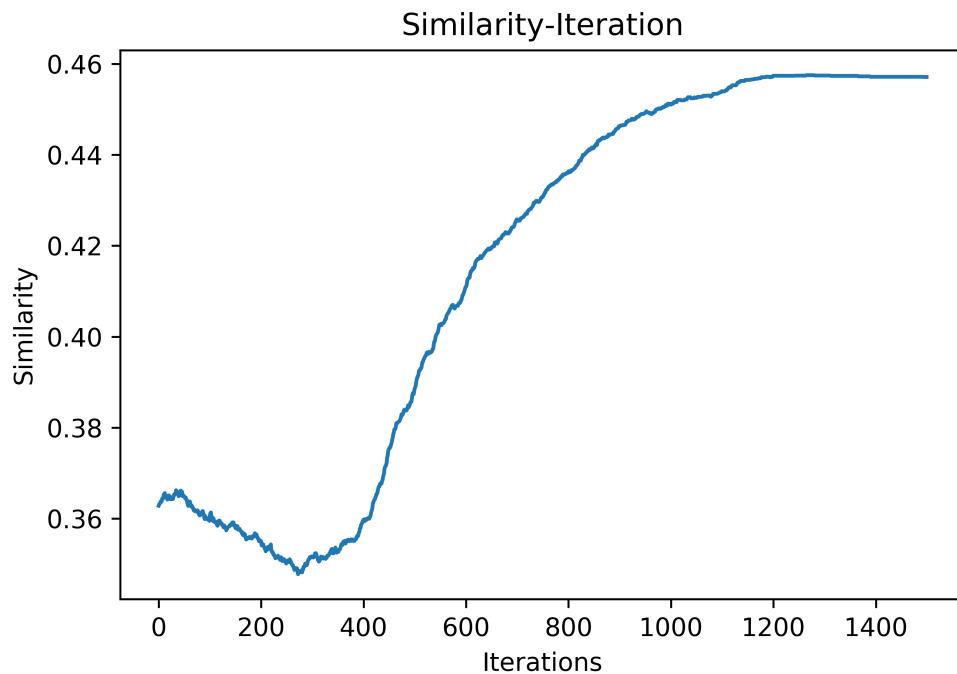


Figure 61: Similarity

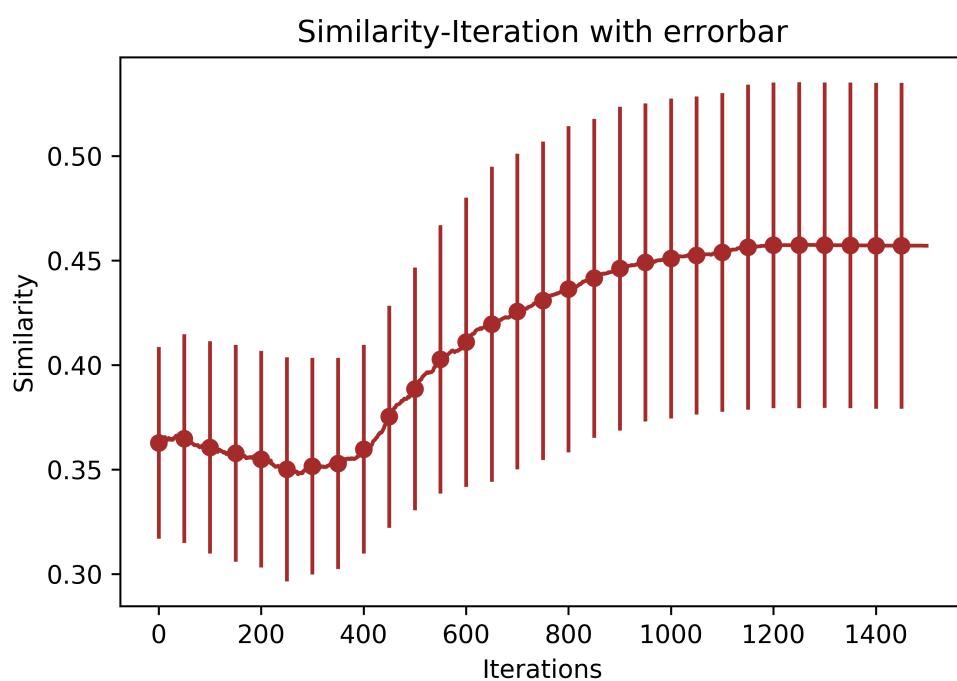


Figure 62: Similarity with error bar

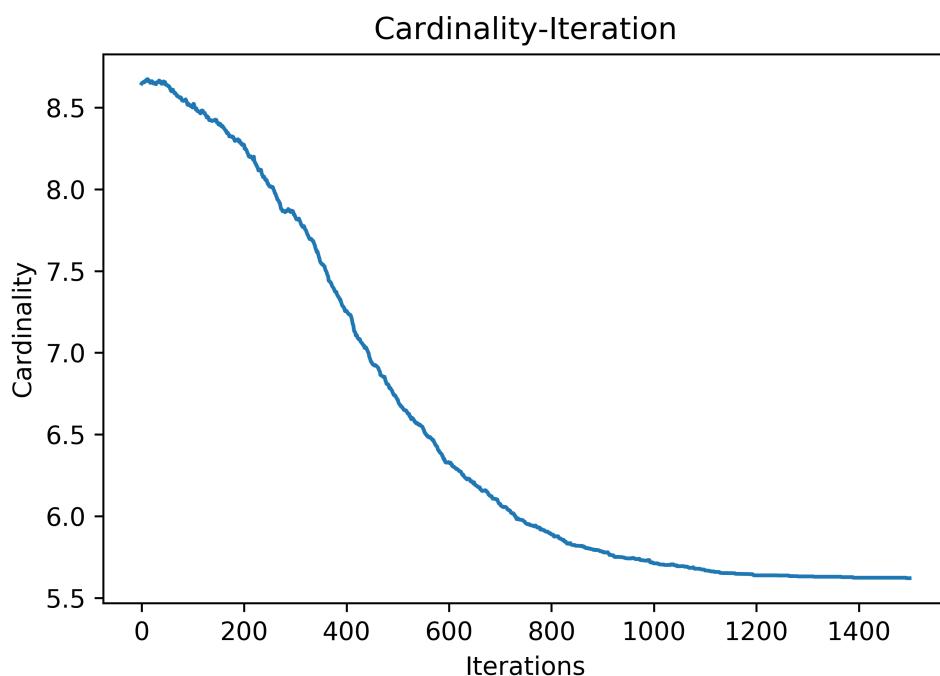


Figure 63: Cardinality

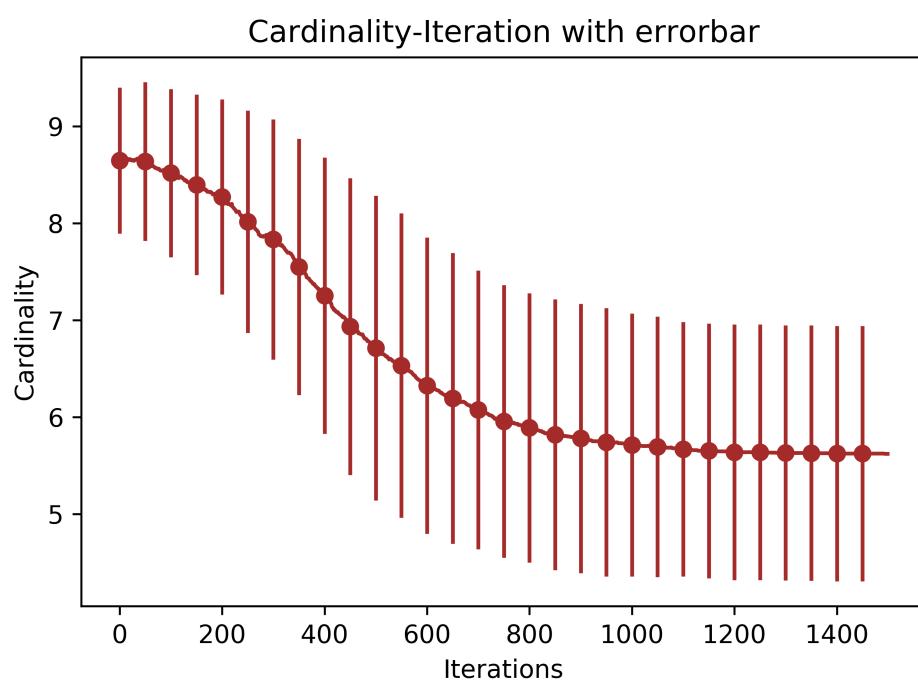


Figure 64: Cardinality with error bar

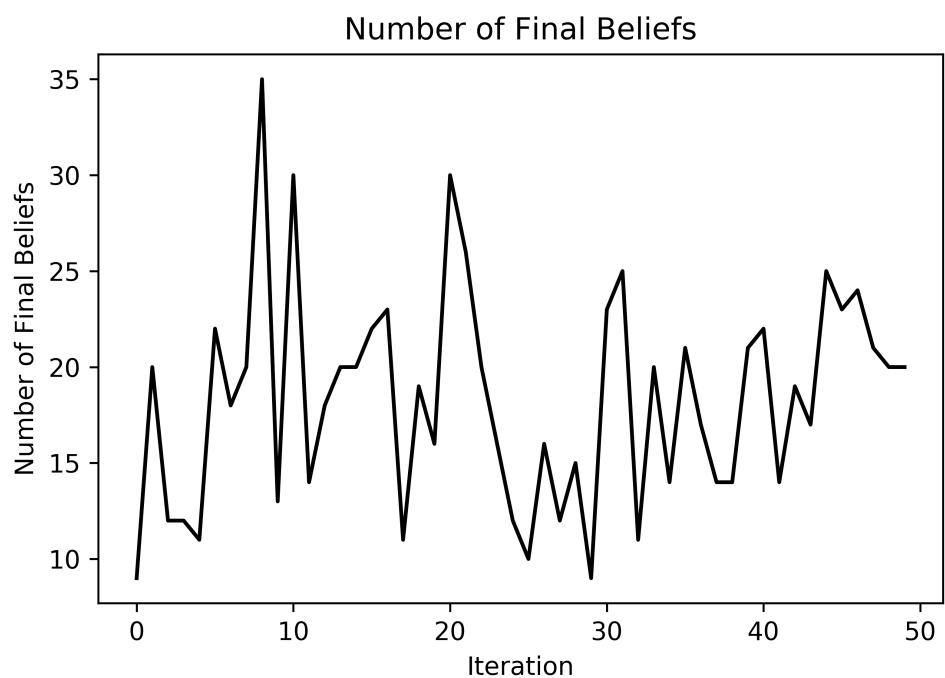


Figure 65: Cardinality with error bar