# Test done 2025_07_05 at 10_53_36

Number of simulation done : 5. The window time of the simulation is 10

Initial condition
Size : 100
I_Energy : 150
I_Age : 150
I_Maturity : 30
I_Distr : Central Block
Radius : 6
Active : 40
C_Min : 15
C_Max : 150
C_Regen : 5
C_Distr : Uniform
Height : 50
Width : 50
P_Distr : Selfish
Move : 1
Eat : 3
Rest : 0
Reproduce : 5
N_Simulations : 5
Seed : 123
Energy Needed : 0.6
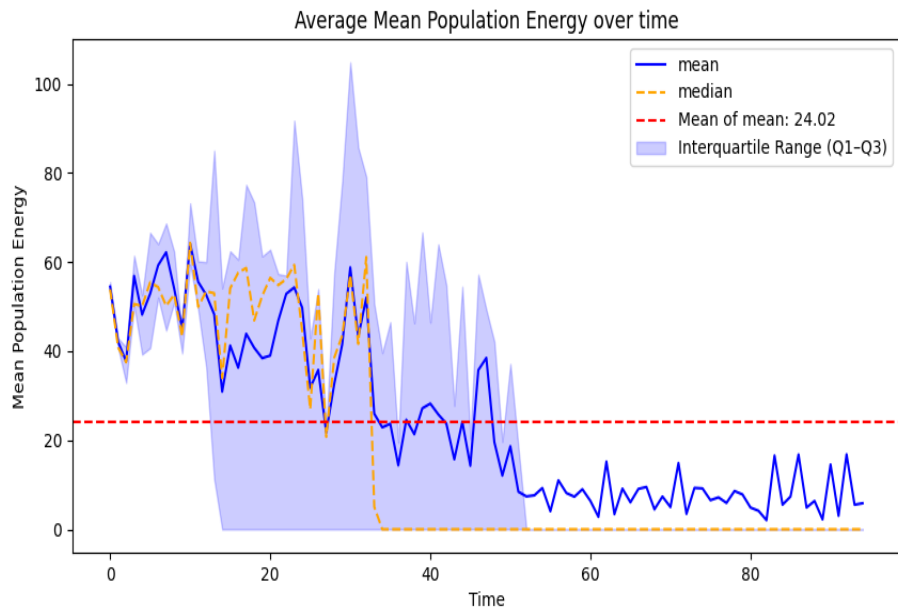Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1
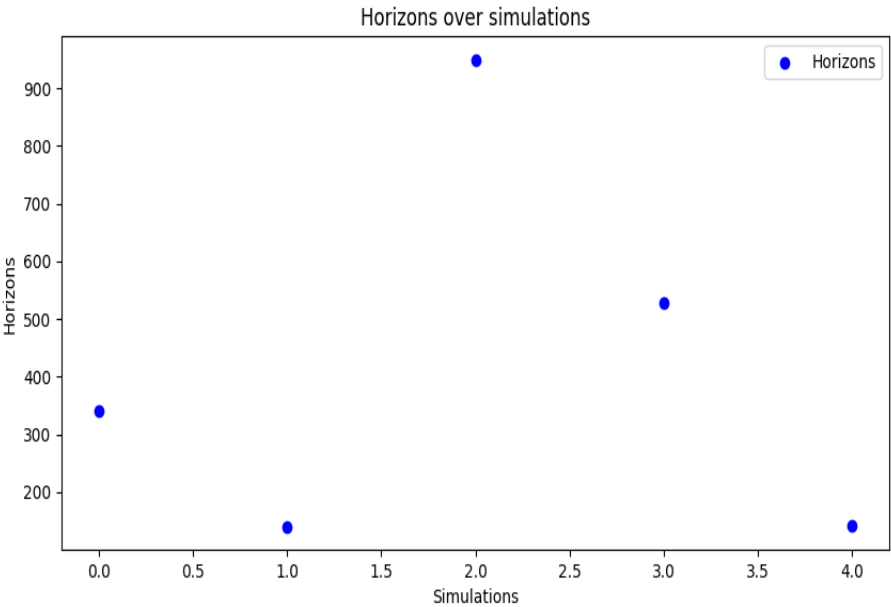


Mean : 420.6
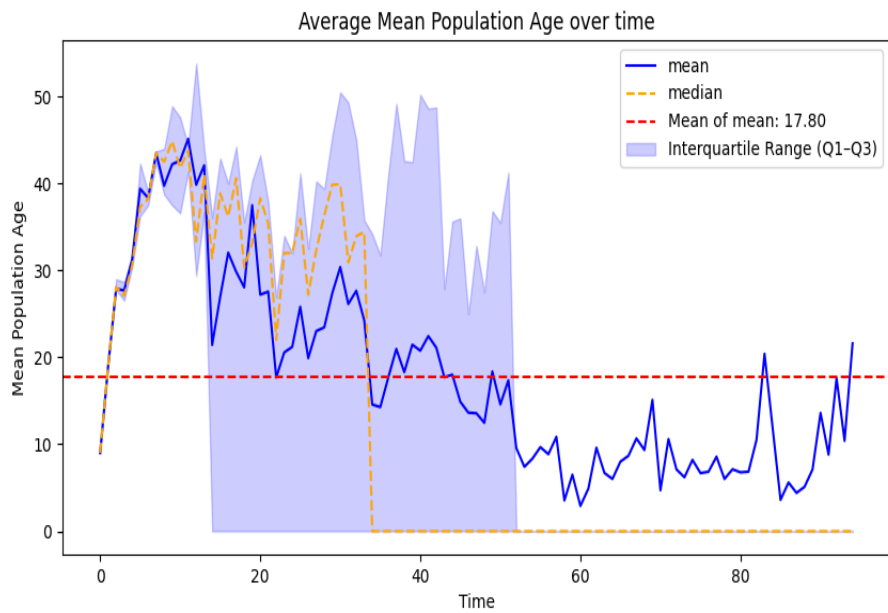Variance : 90829.04000000001

Average Population over time
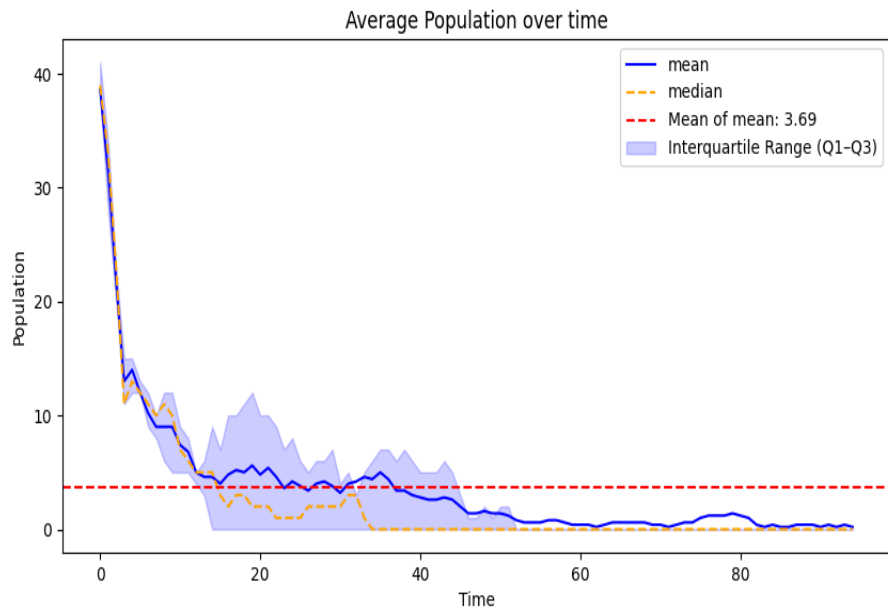
Mean : 3.690526315789472
Variance : 33.82043656509694



Average Energy Cells over time
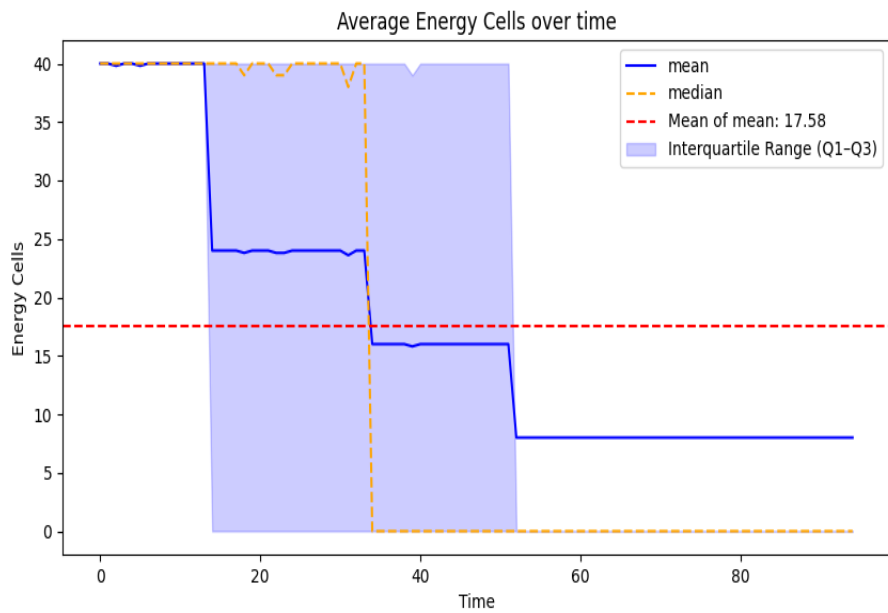
Mean : 17.583157894736843
Variance : 124.45361108033245

Average Mean Population Energy over time

Mean : 24.019236530244463
Variance : 343.91474392407554



Average Mean Population Age over time

Mean : 17.796308966295022
Variance : 123.13792013071554

Average Mean World Energy over time
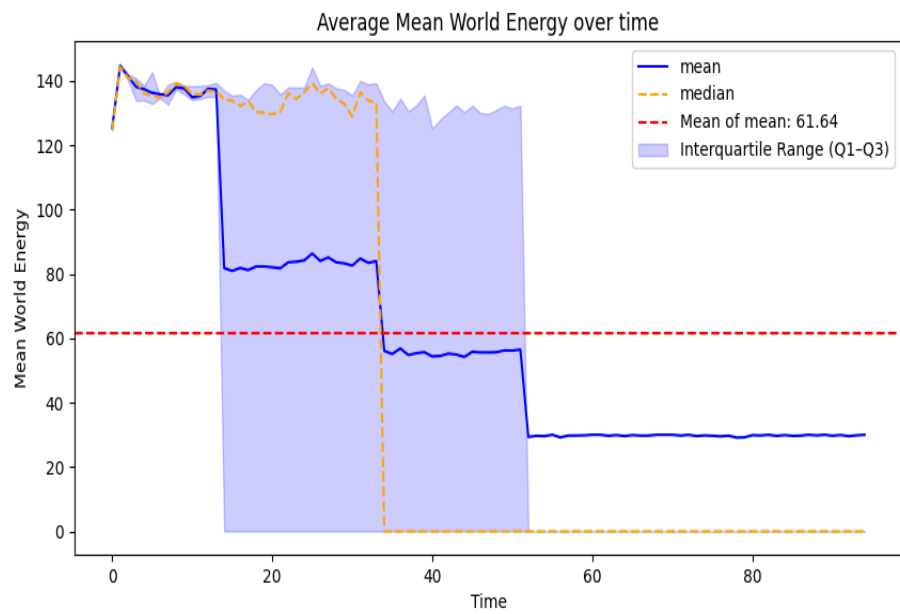
Mean : 61.64085427042847
Variance : 1400.503997642157



Average Different Heritage over time
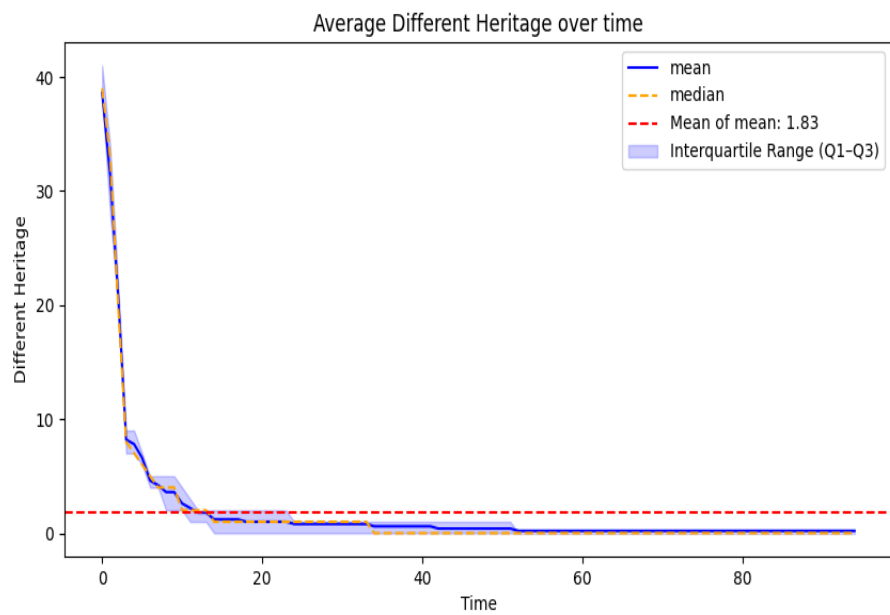
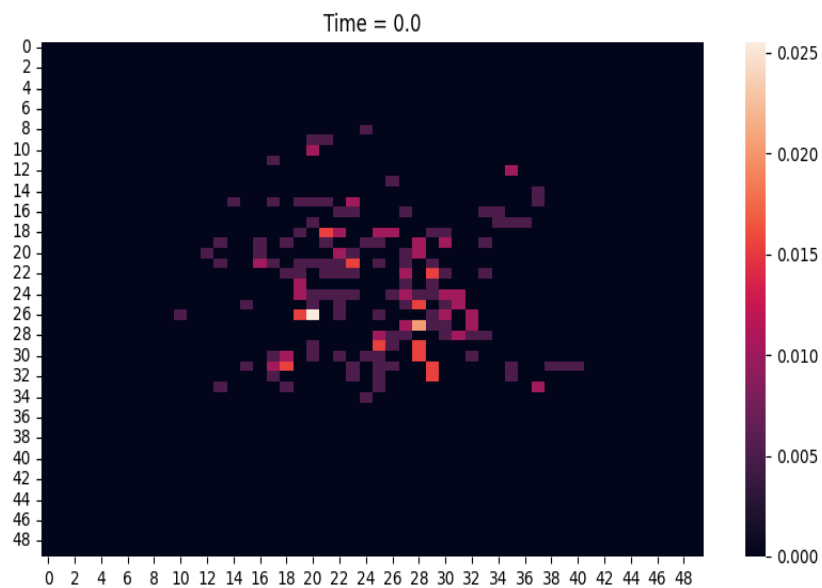Mean : 1.83157894736842
Variance : 30.196476454293627

Average Selfishness over time
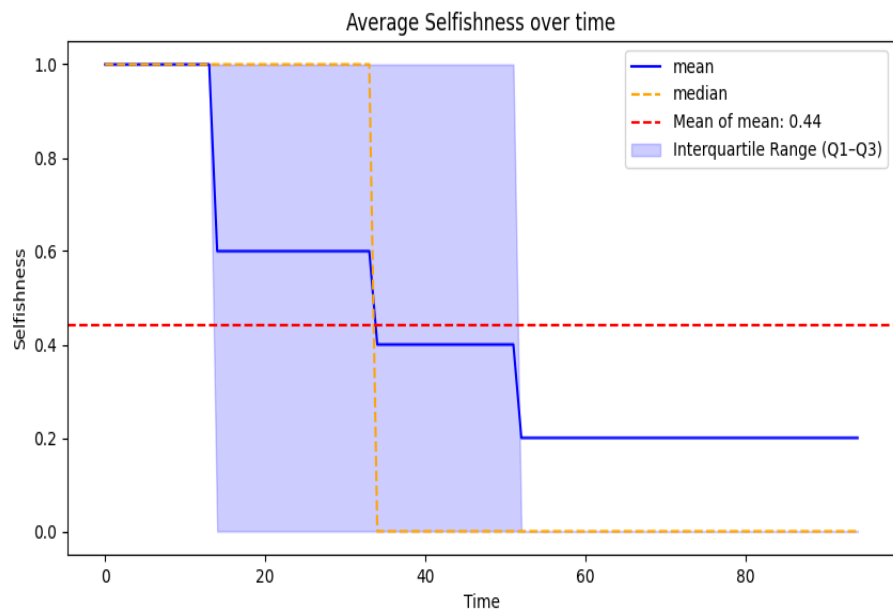
Mean : 0.4400000000000003
Variance : 0.07797894736842104



Average Altruism over time

Mean : 0.0
Variance : 0.0

## Average Normality over time
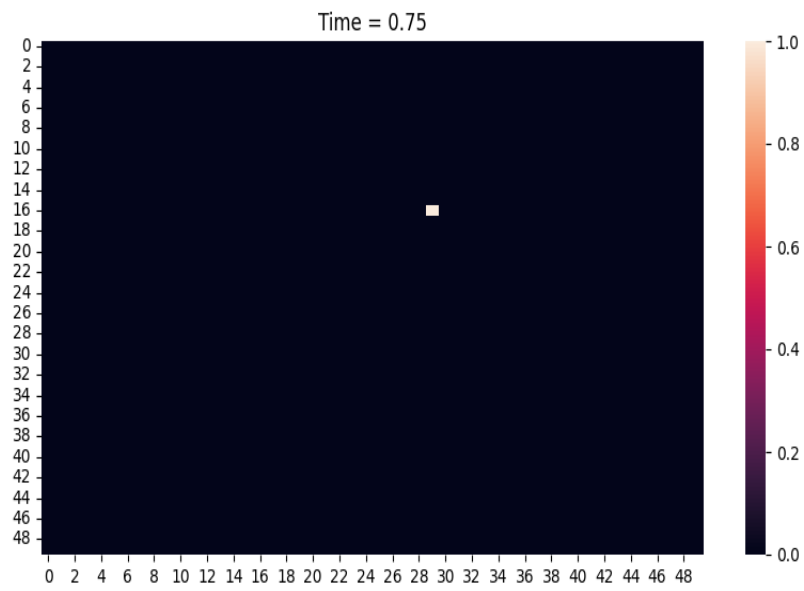
1e−17
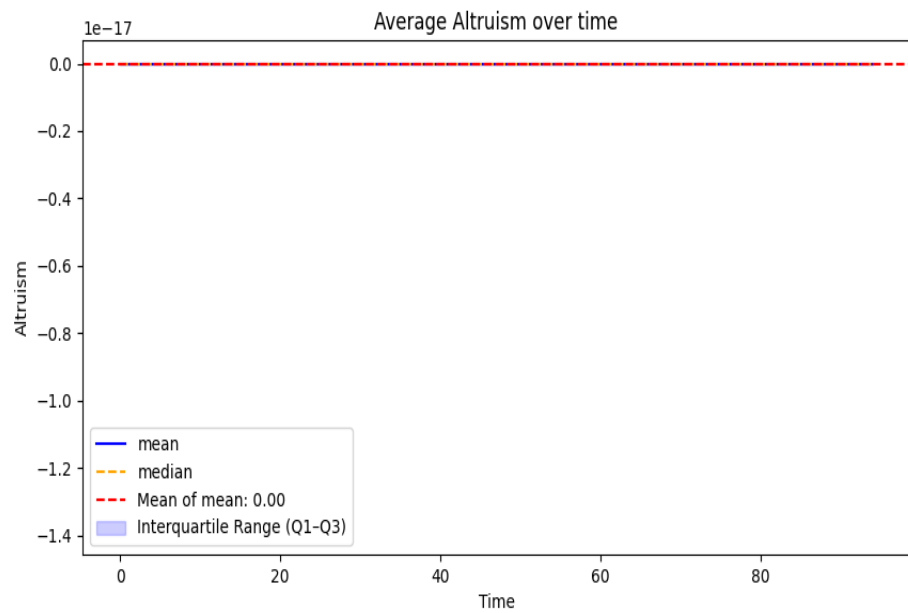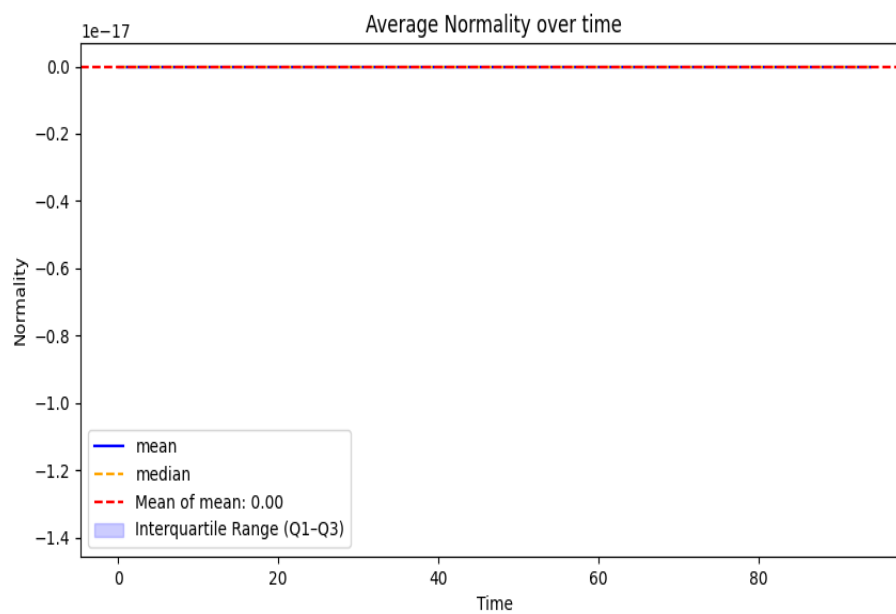


Mean : 0.0
Variance : 0.0
Spatial Distribution Density Heatmap

### Time = 0.0

Time = 0.25

Time = 0.5

## Time = 0.75



## Time = 1.0