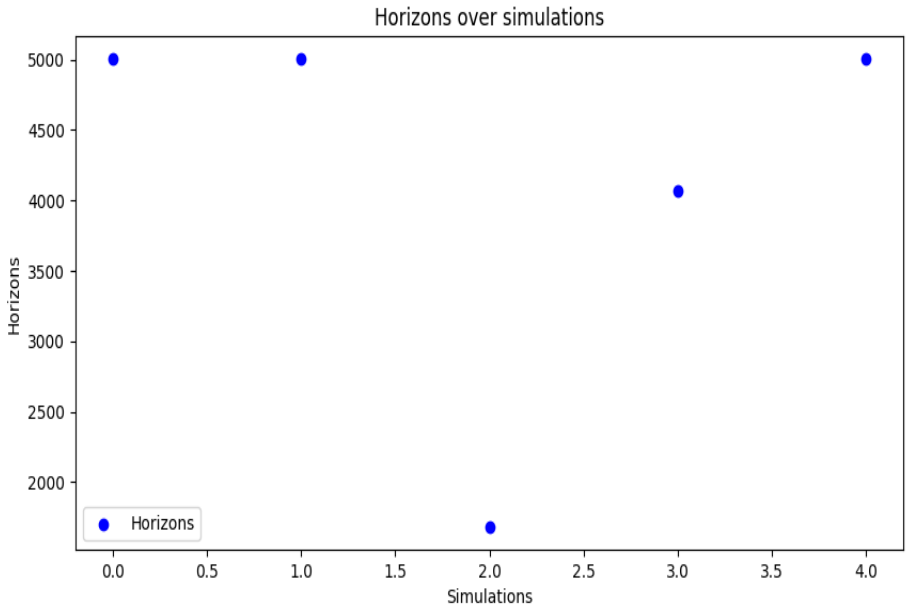
Test done 2025_07_05 at 10_56_31

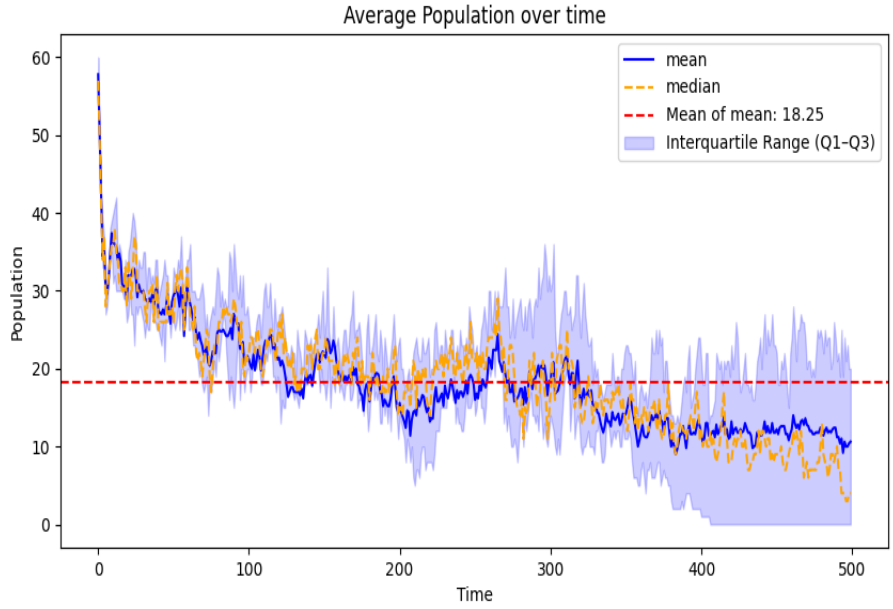
Number of simulation done : 5. The window time of the simulation is 10

Initial condition

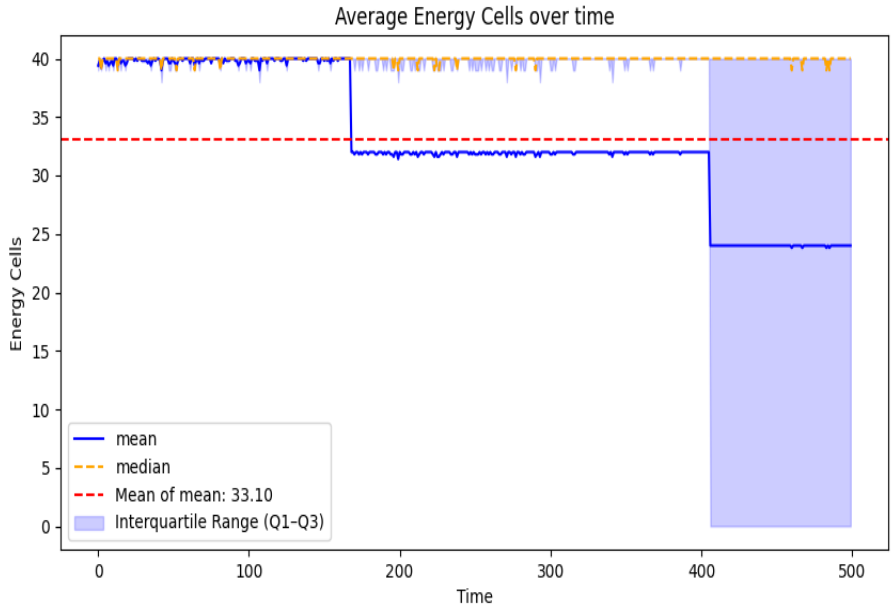
Size : 100
I_Energy : 150
I_Age : 150
I_Maturity : 30
I_Distr : Central Block
Radius : 6
Active : 40
C_Min : 15
C_Max : 150
C_Regen : 5
C_Distr : Uniform
Height : 50
Width : 50
P_Distr : Selfish
Move : 1
Eat : 3
Rest : 0
Reproduce : 5
N_Simulations : 5
Seed : 123
Energy Needed : 0.6
Extra Energy : 0.2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



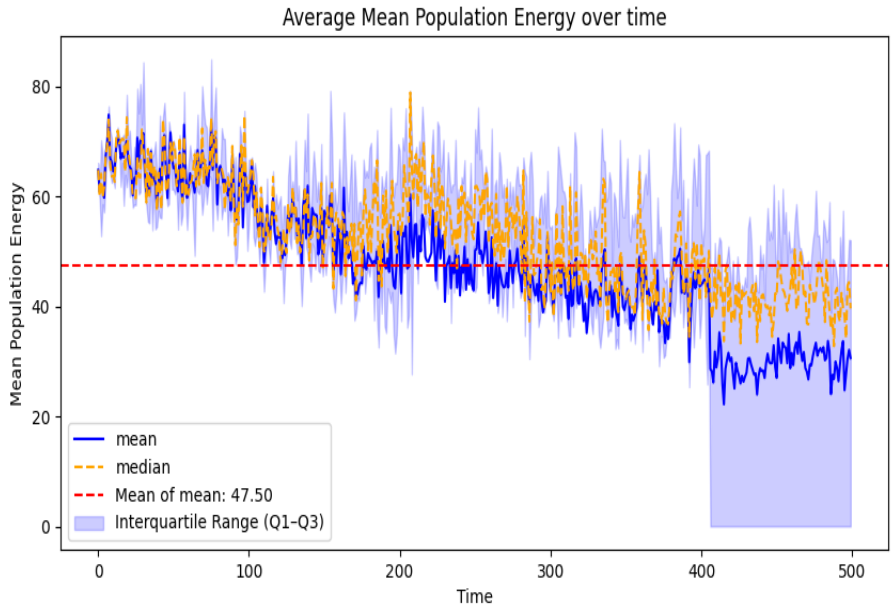
Mean : 4151.0
Variance : 1649238.4



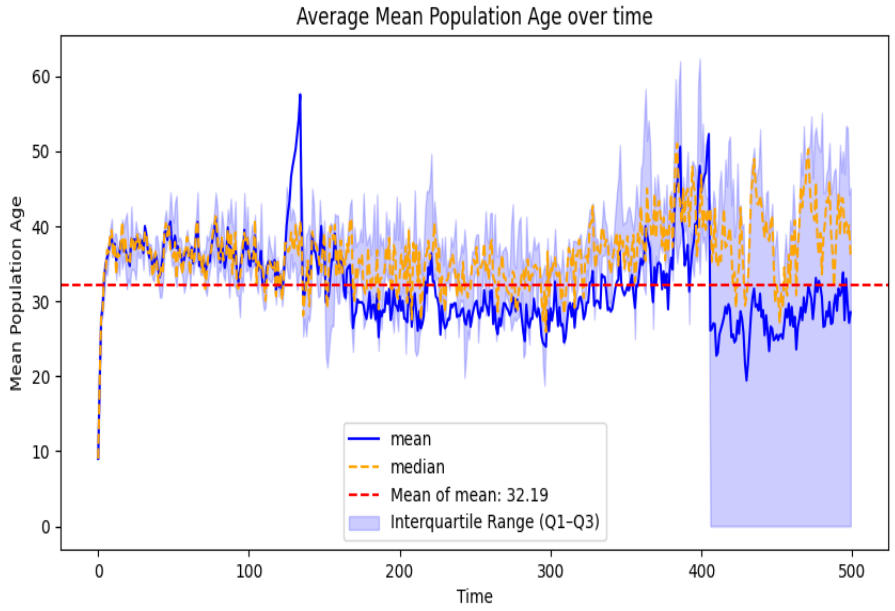
Mean : 18.2524
Variance : 42.92869424



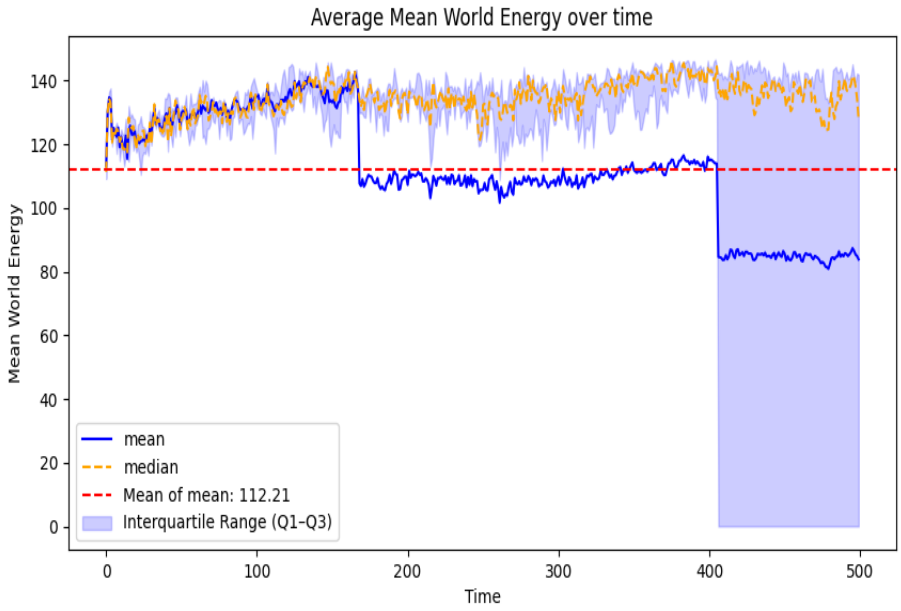
Mean : 33.1012
Variance : 31.561038559999993



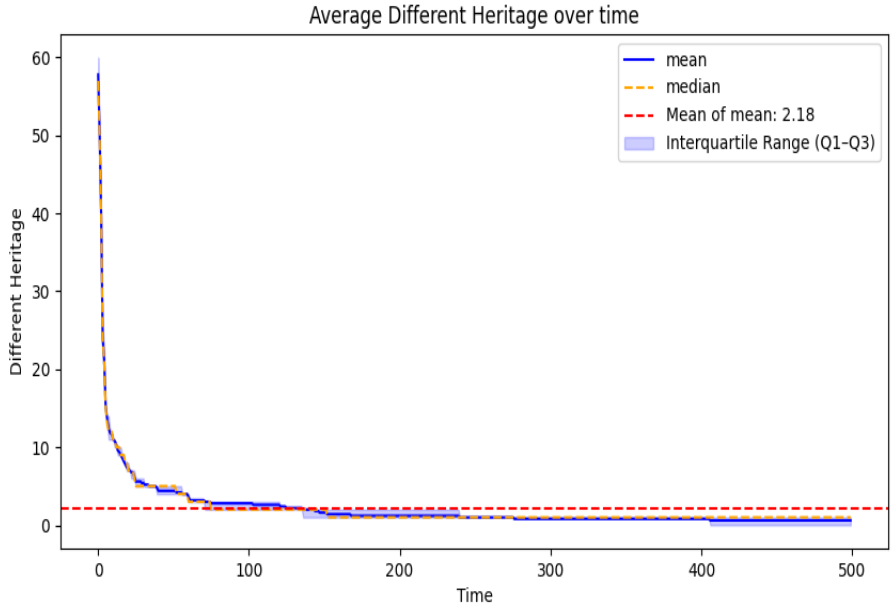
Mean : 47.50161123657525
Variance : 146.44823158409324



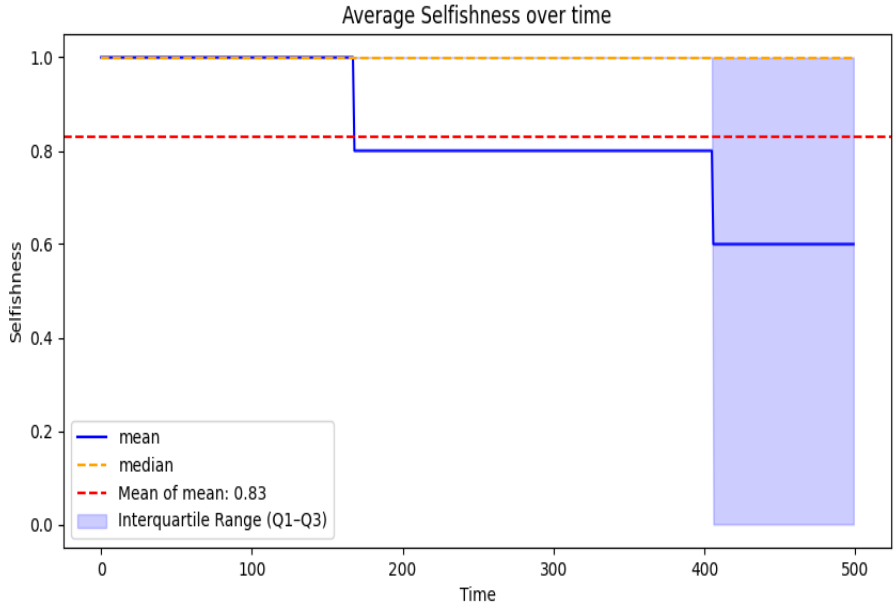
Mean : 32.189809622593465
Variance : 30.512114436531885



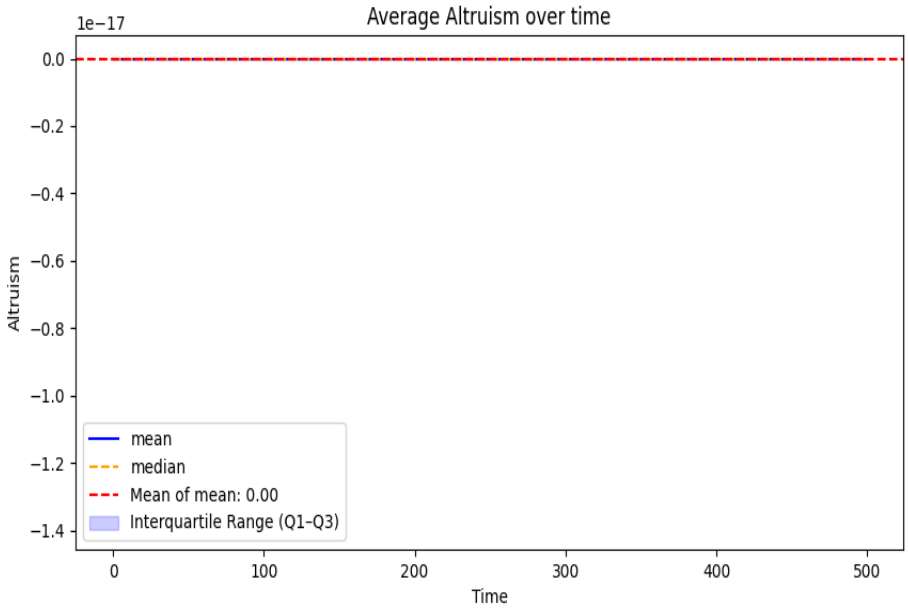
Mean : 112.20548786704524
Variance : 279.3356249145877



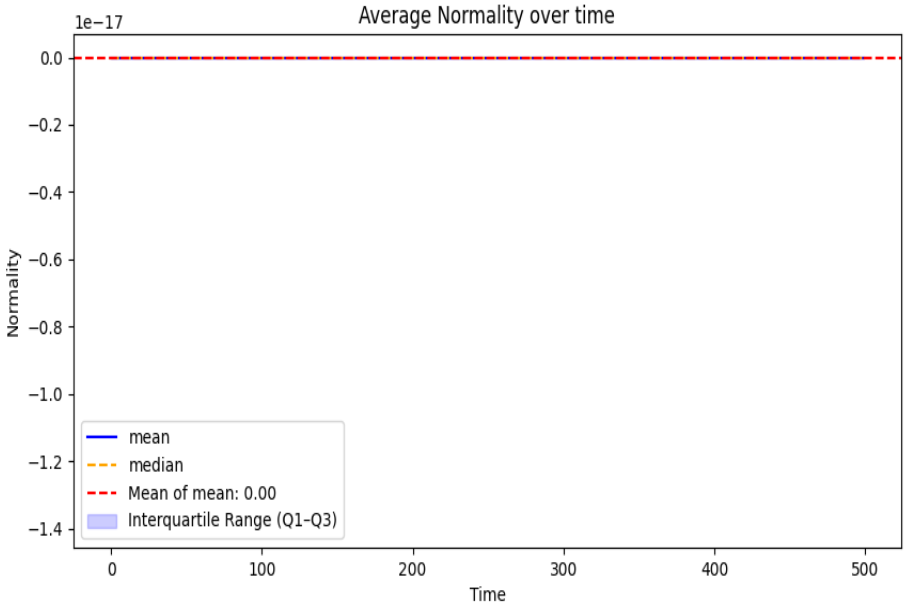
Mean : 2.1788
Variance : 19.46427056



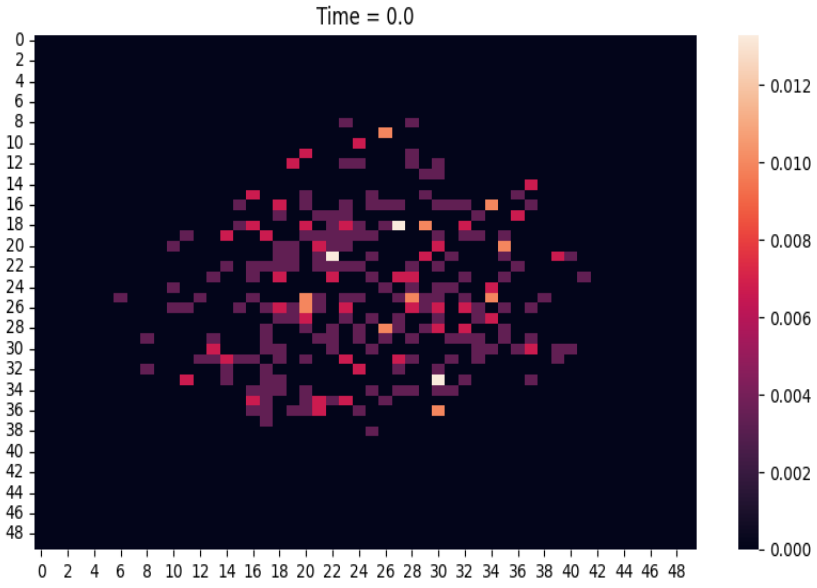
Mean : 0.8296000000000001
Variance : 0.020083840000000002

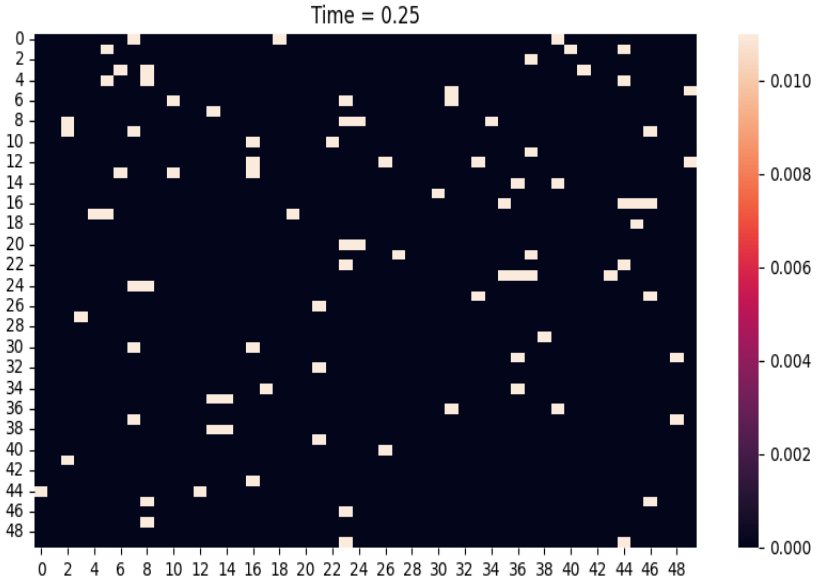


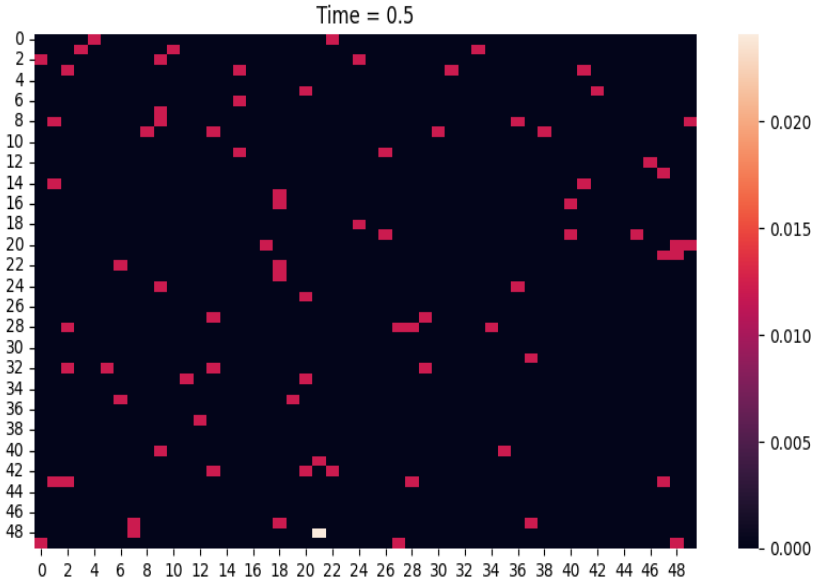
Mean : 0.0
Variance : 0.0

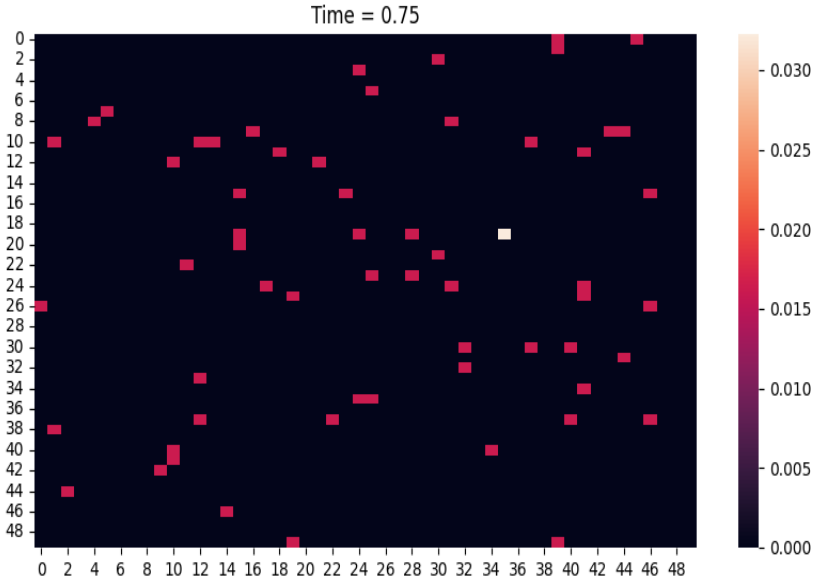


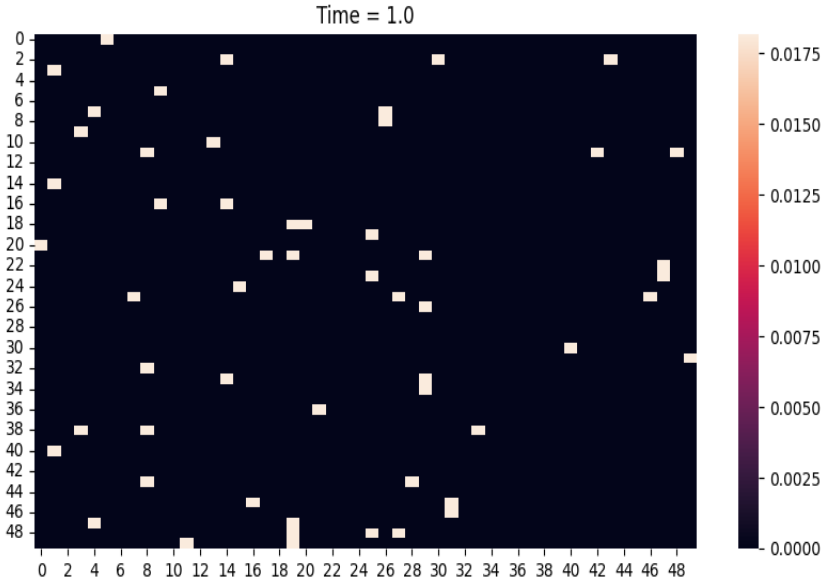
Mean : 0.0
Variance : 0.0
Spatial Distribution Density Heatmap




Time = 0.25
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48
0.010
0.008
0.006
0.004
0.002
0.000


Time = 0.5
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48
0.020
0.015
0.010
0.005
0.000





Author : Francesco Bredariol
Year : 2024/2025
This Project is done for the academic purpose of implementing the practical part of the Degree Thesis in Artificial Intelligence and Data Analytics.