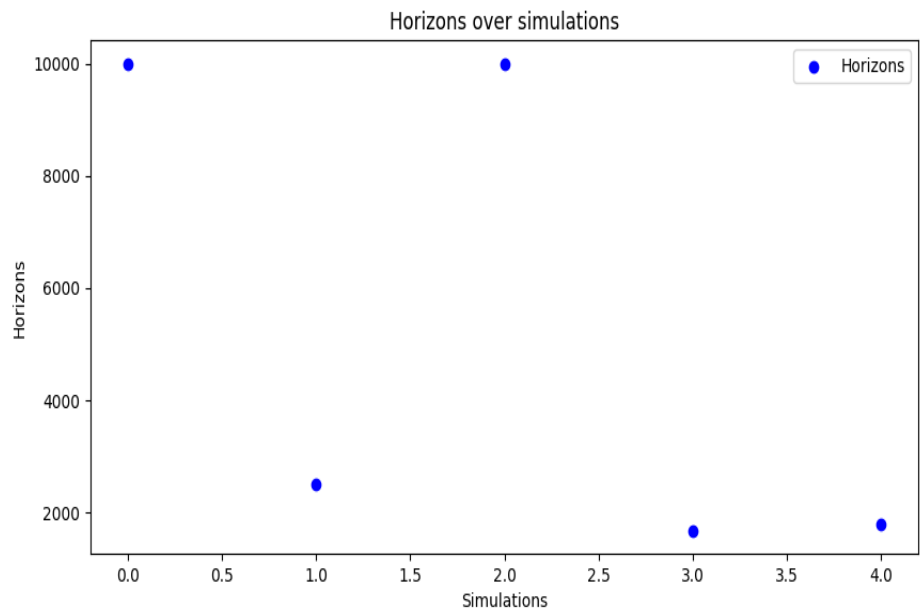


Test done 2025_06_26 at 16_56_36

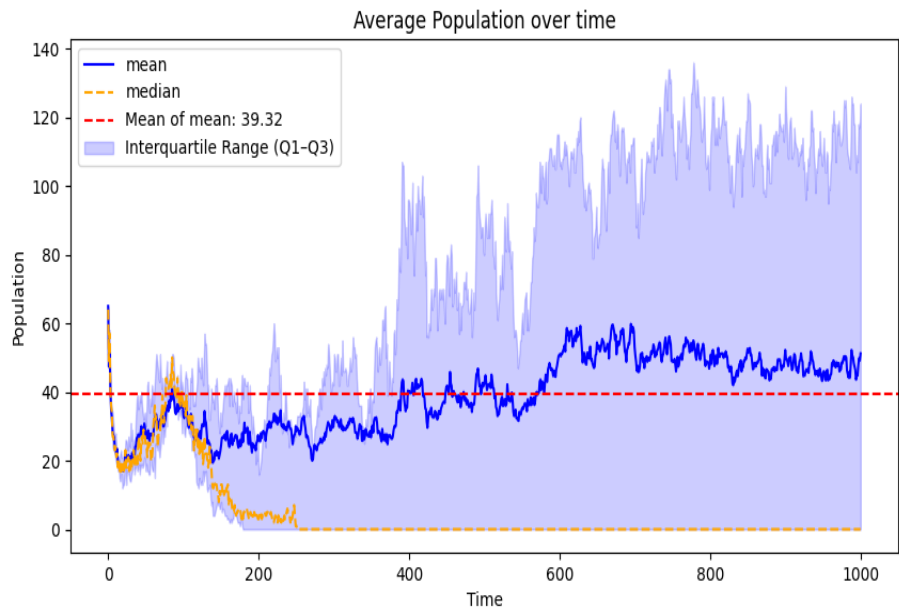
Number of simulation done : 5. The window time of the simulation is 10

Initial condition

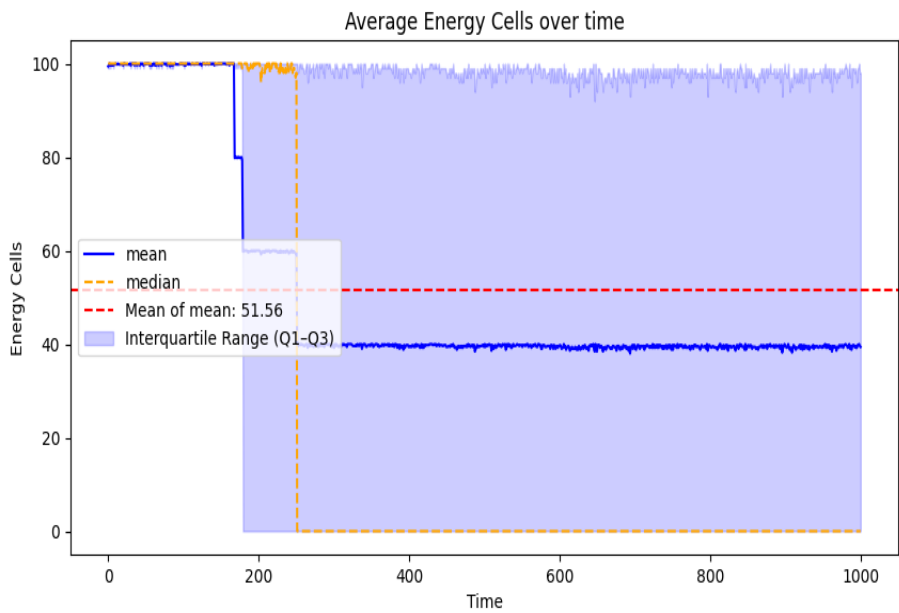
Size : 100
I_Energy : 120
I_Age : 100
I_Maturity : 20
I_Distr : First Quad
Radius : 6
Active : 100
C_Min : 15
C_Max : 150
C_Regen : 5
C_Distr : Uniform
Height : 80
Width : 80
P_Distr : Uniform
Move : 1
Eat : 2
Rest : 0
Reproduce : 5
N_Simulations : 5
Seed : 100
Energy Needed : 0.6
Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1



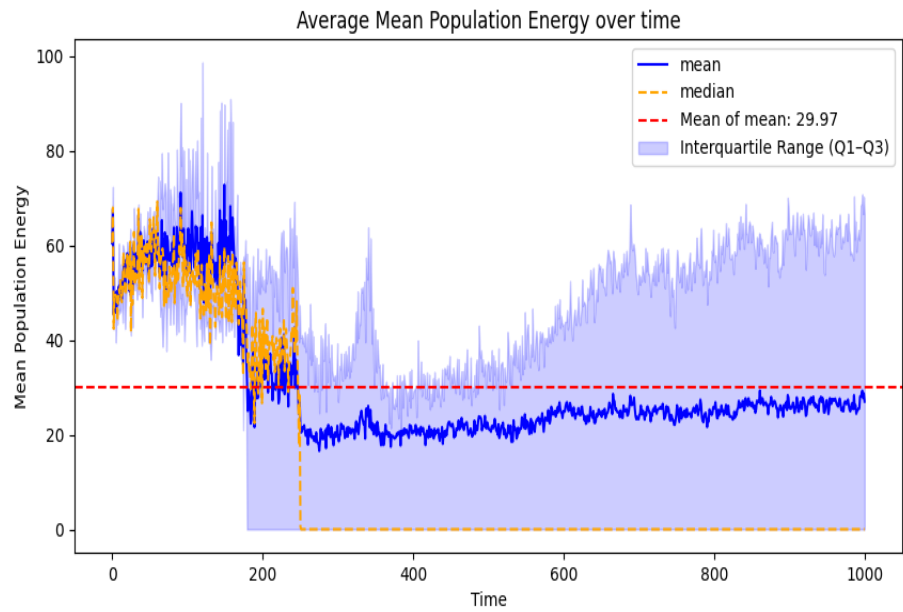
Mean : 5198.4
Variance : 15456821.439999998



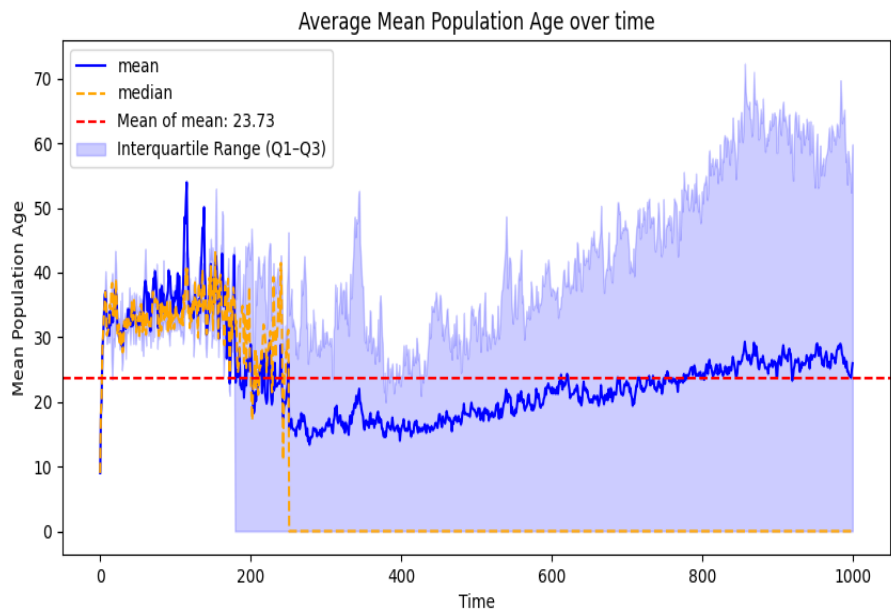
Mean : 39.324400000000004
Variance : 110.87436464



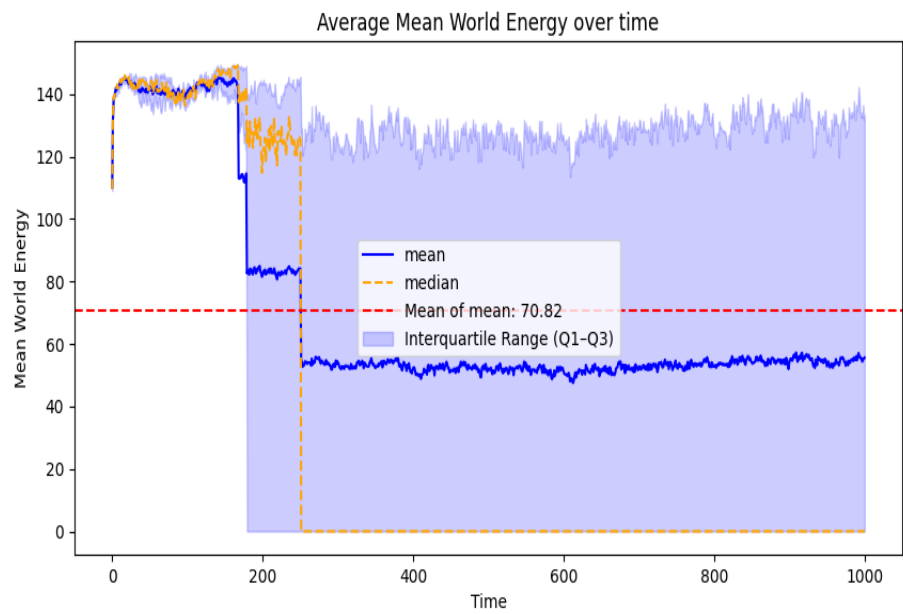
Mean : 51.559599999999999
Variance : 514.09492784



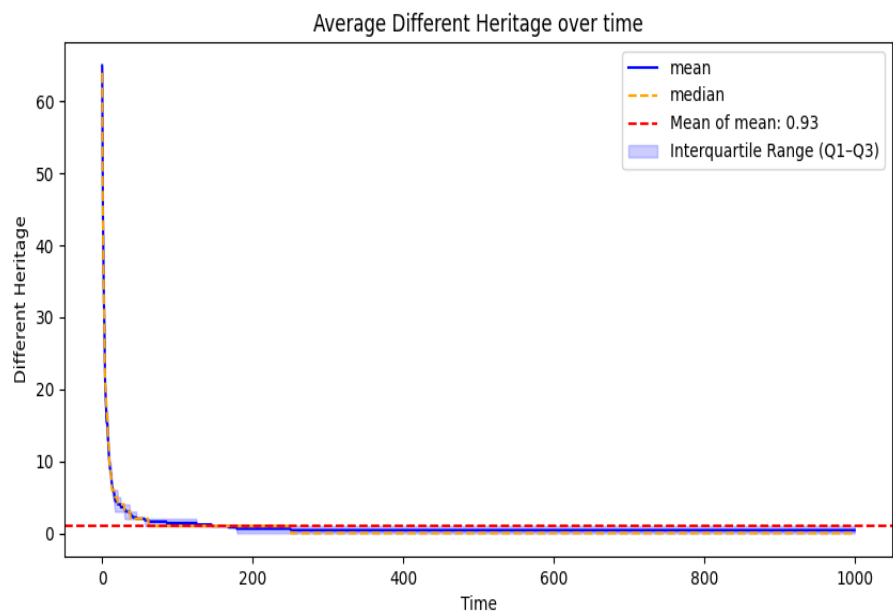
Mean : 29.97375412561087
Variance : 172.76860730709566



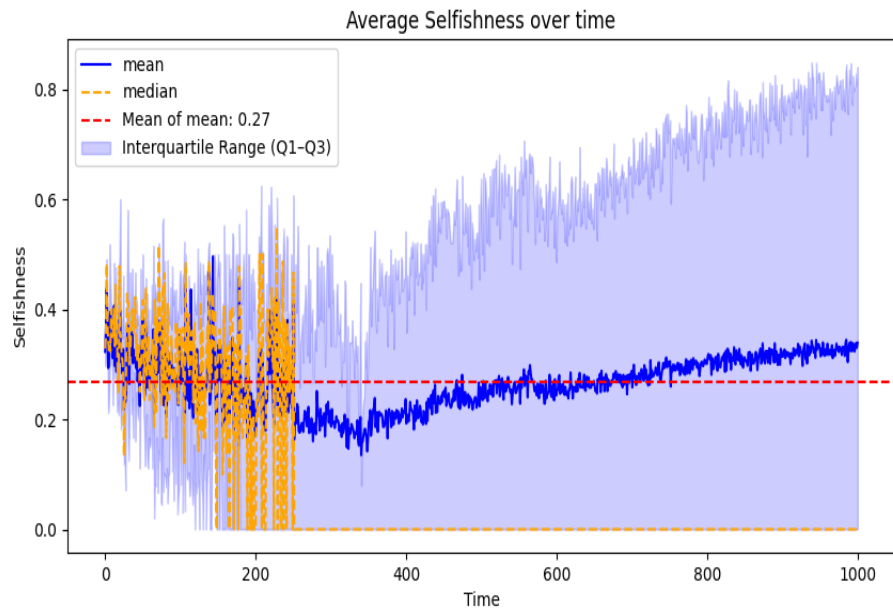
Mean : 23.732887916903493
Variance : 45.00691571041484



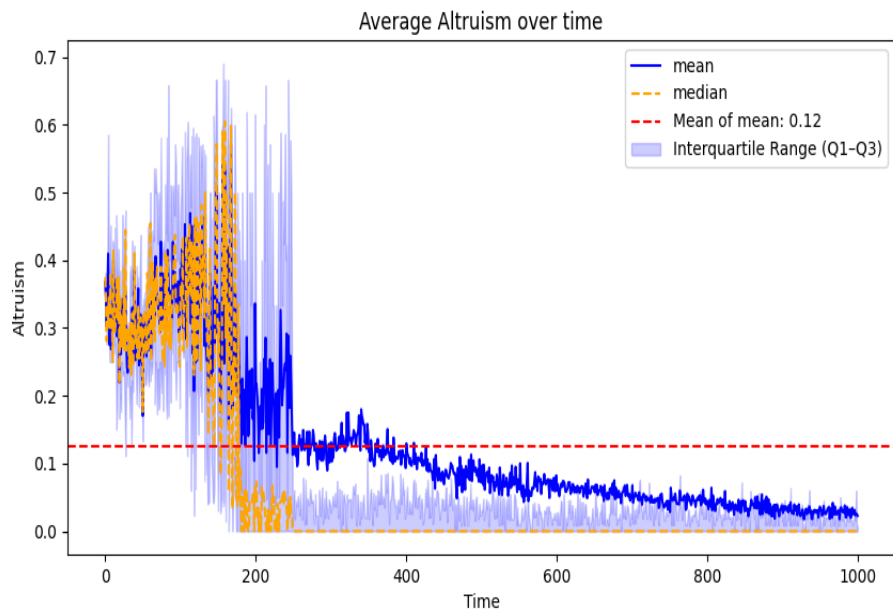
Mean : 70.81580764848738
Variance : 1120.815652489838



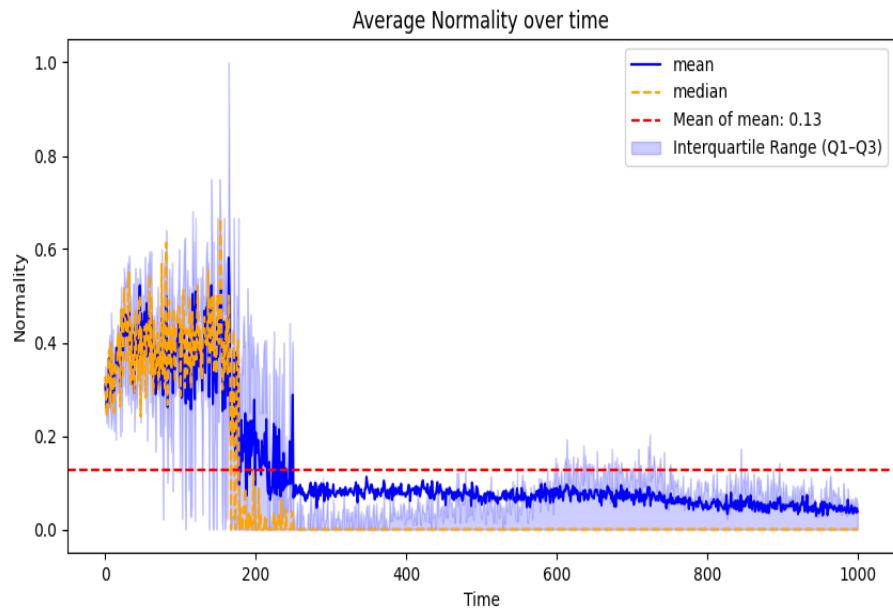
Mean : 0.9329999999999999
Variance : 9.9326710000000003



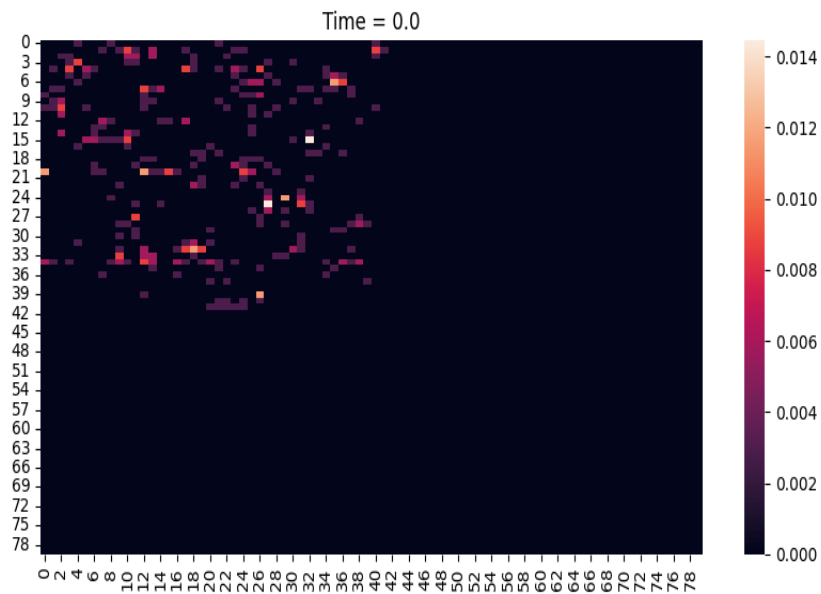
Mean : 0.2674734211419451
Variance : 0.002667736454406998

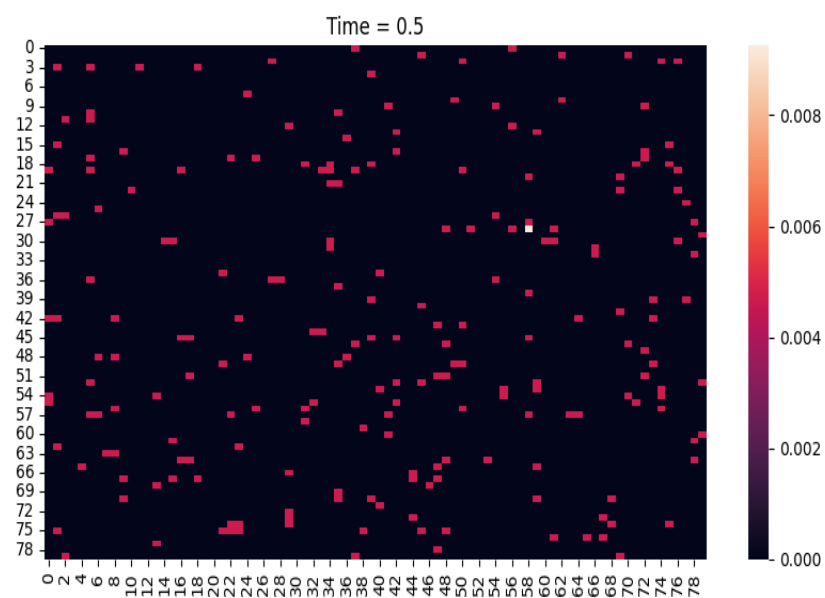
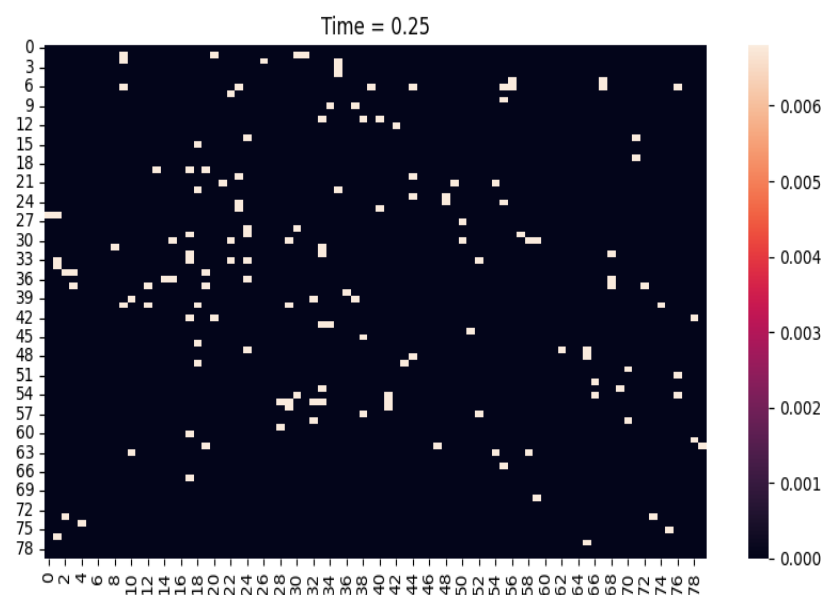


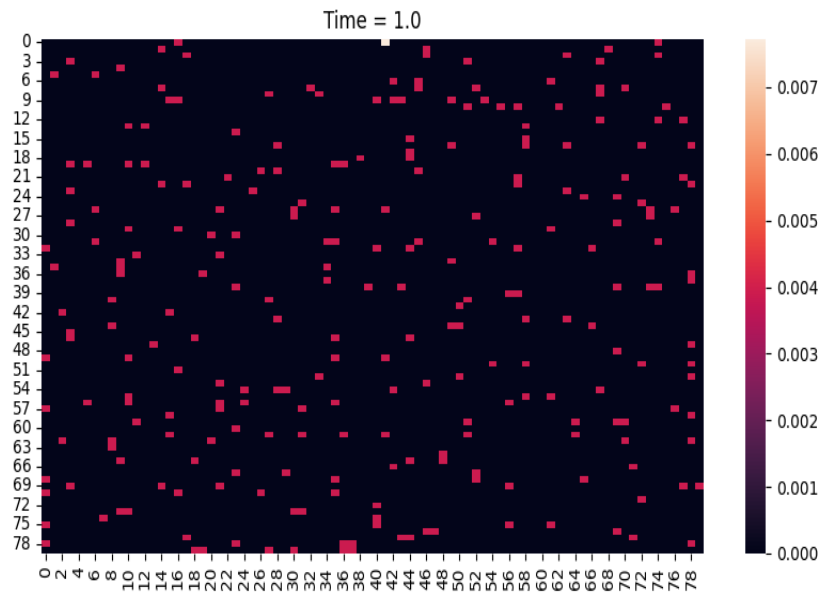
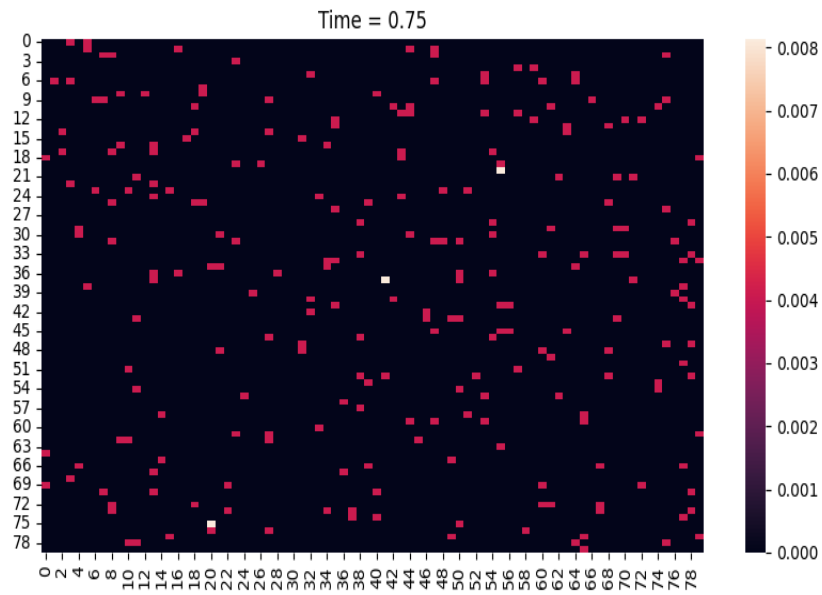
Mean : 0.12436531493169983
Variance : 0.011863442065970592



Mean : 0.1277612639263551
Variance : 0.014704593385148524
Spatial Distribution Density Heatmap







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.