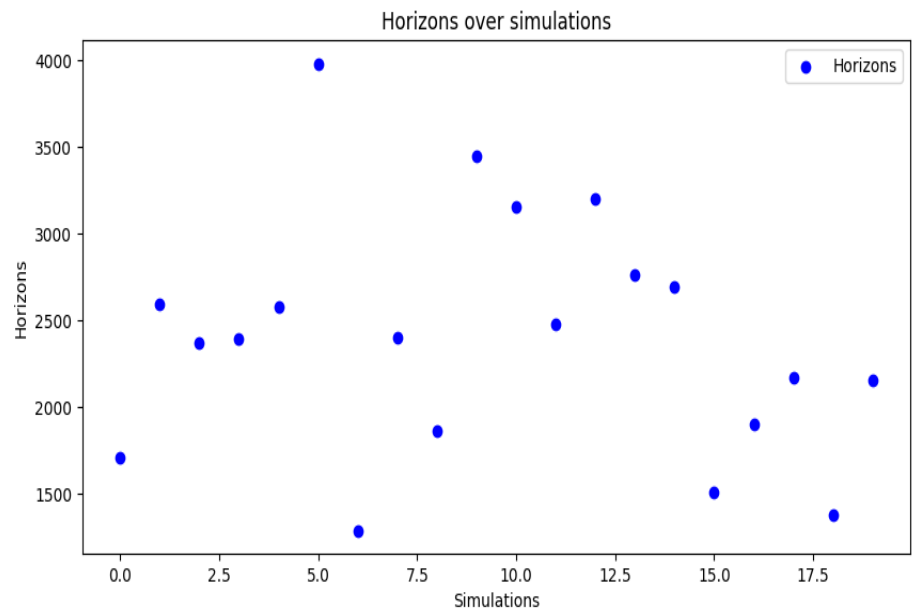


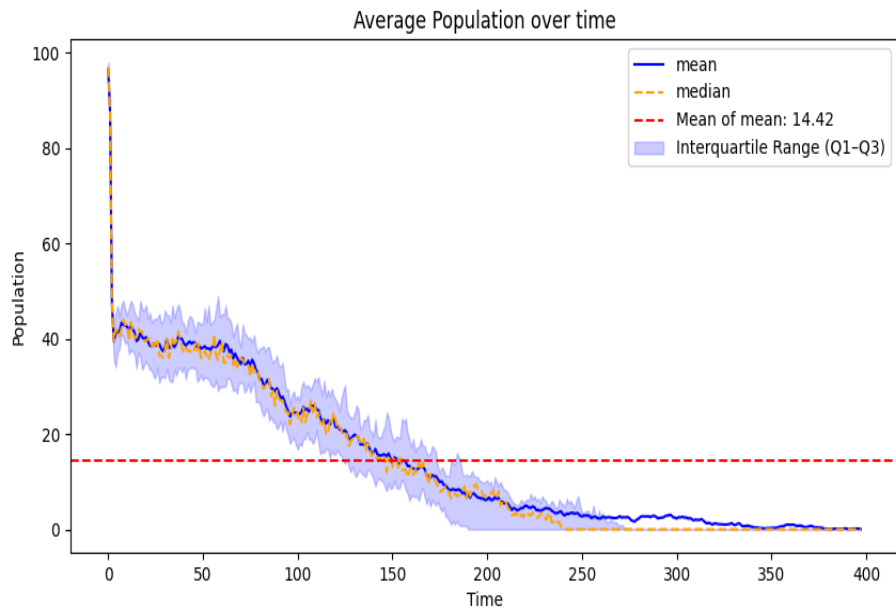
Test done 2025_04_22 at 14_38_54

Number of simulation done : 20. The window time of the simulation is 10

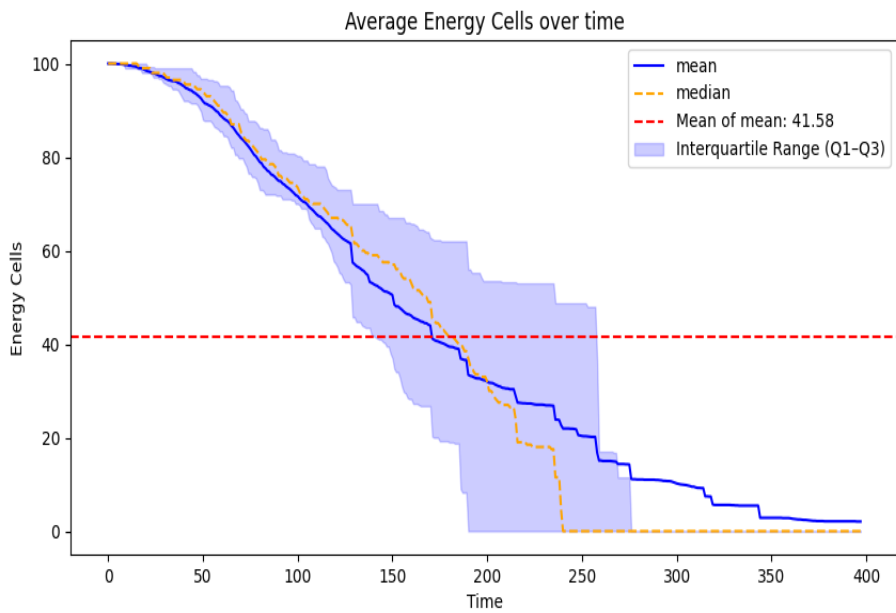
Initial condition
Size : 100
I_Energy : 100
I_Age : 100
I_Maturity : 18
I_Distr : Uniform
Radius : 4
Active : 100
C_Min : 10
C_Max : 150
C_Regen : 20
C_Distr : 4 Islands no regen
Height : 100
Width : 100
P_Distr : Uniform
Move : 1
Eat : 1
Rest : 0
Reproduce : 15
N_Simulations : 20
Seed : 69
Energy Needed : 0.6
Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1



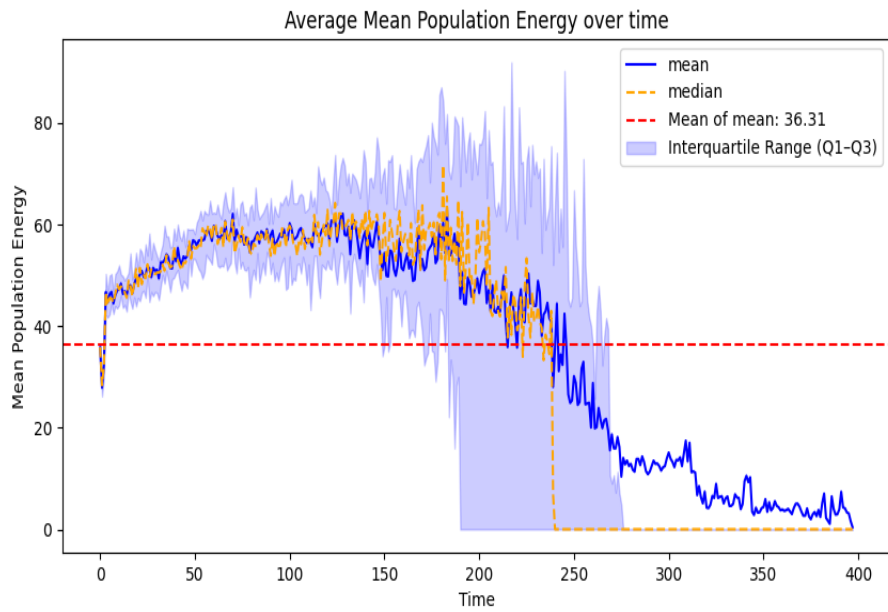
Mean : 2403.15
Variance : 464009.22750000004



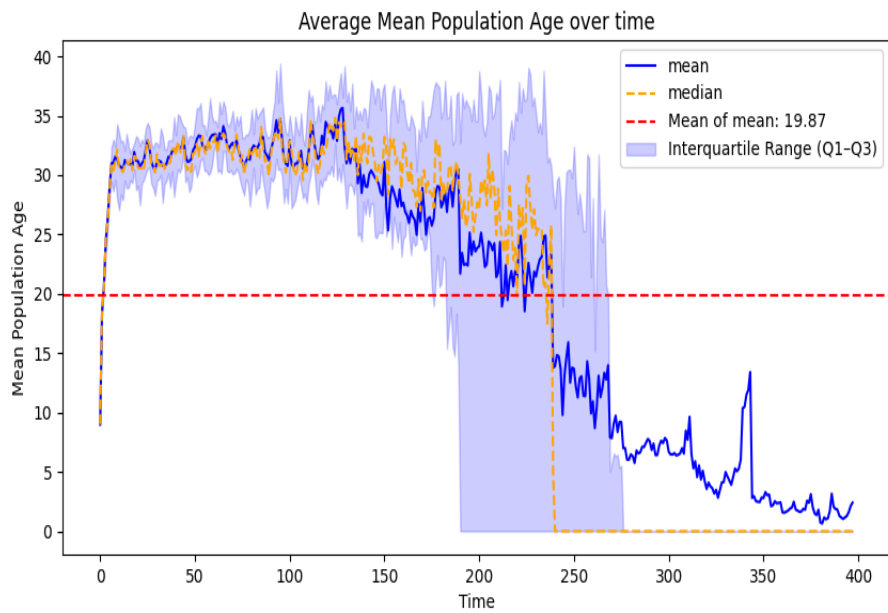
Mean : 14.416457286432161
Variance : 242.2192706150097



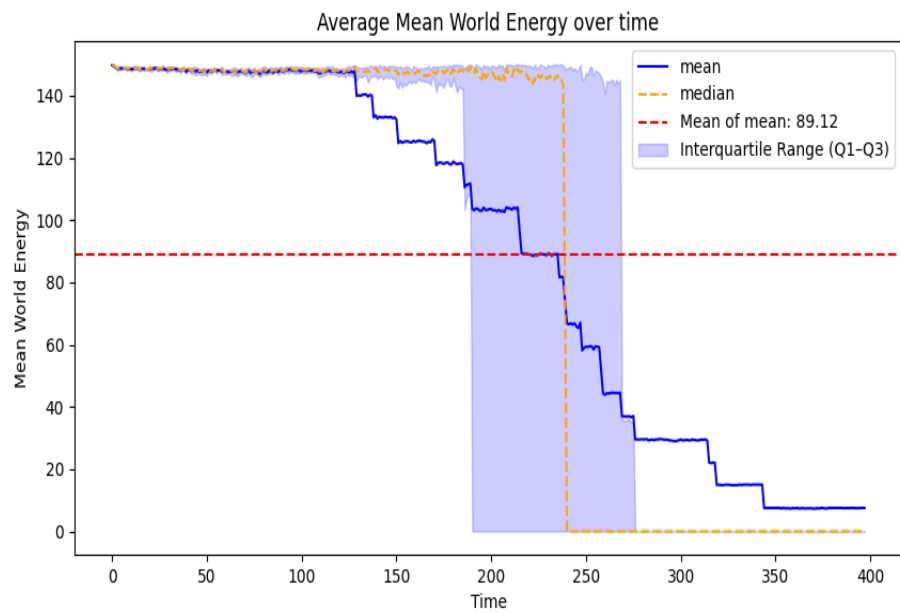
Mean : 41.57902010050251
Variance : 1126.5018148689426



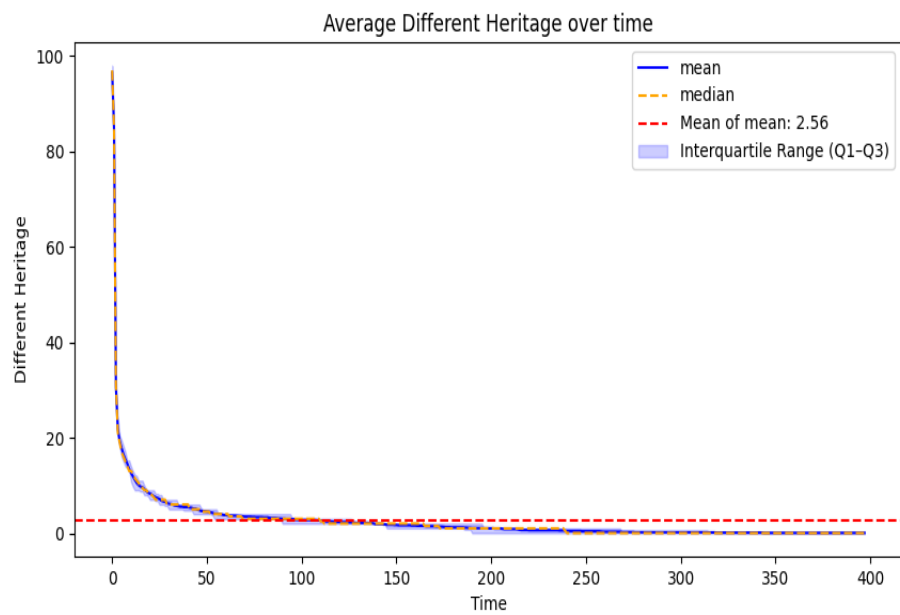
Mean : 36.308178014213794
Variance : 464.60316077165305



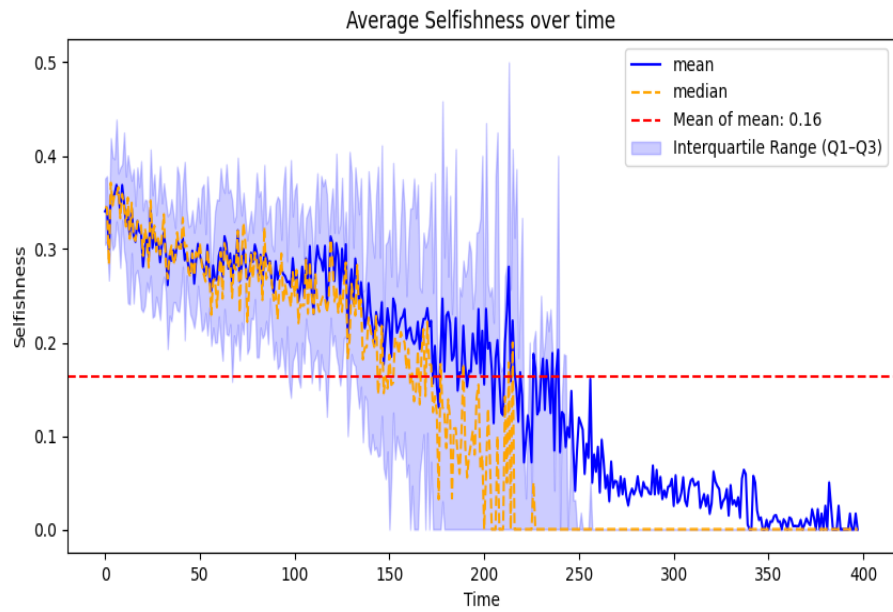
Mean : 19.86544347889948
Variance : 142.7238677389566



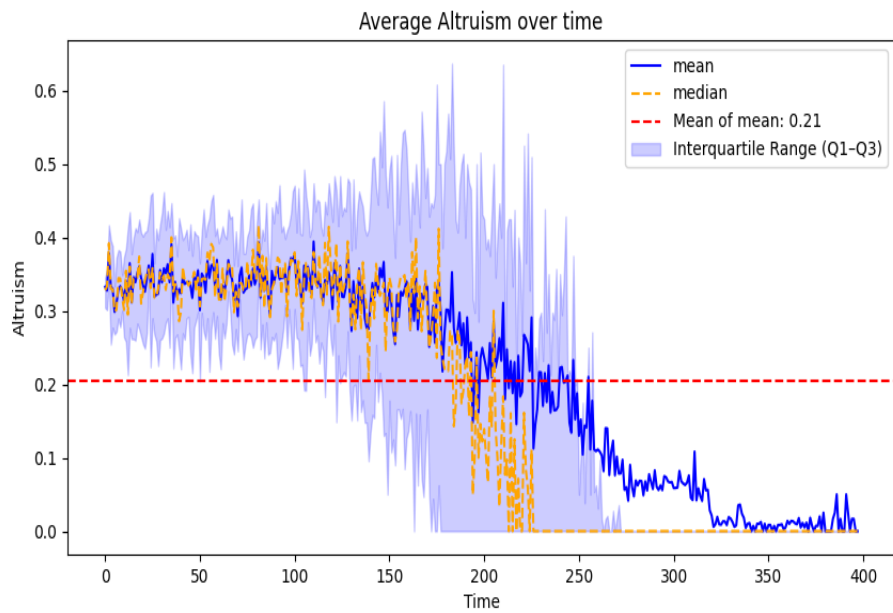
Mean : 89.11673940137183
Variance : 3143.5838034935323



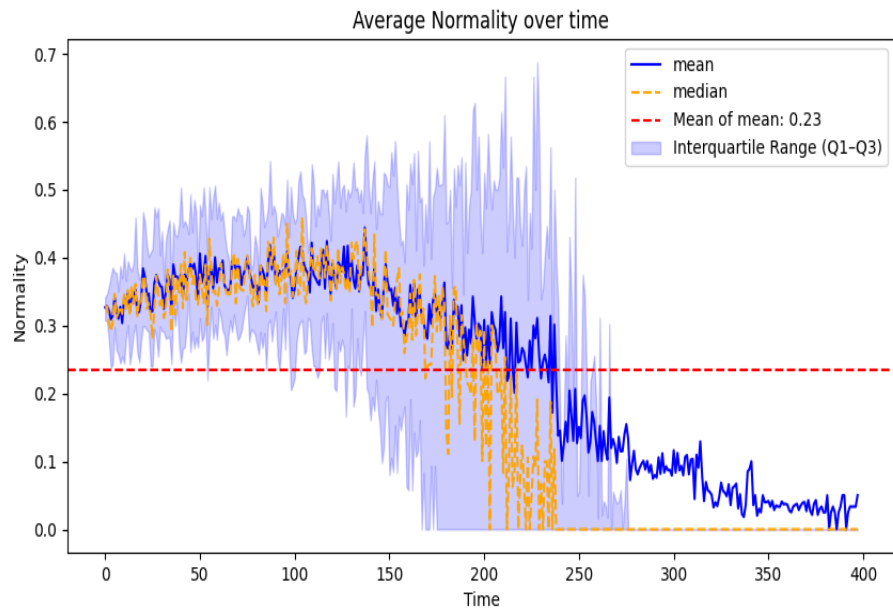
Mean : 2.5634422110552766
Variance : 50.36771503560516



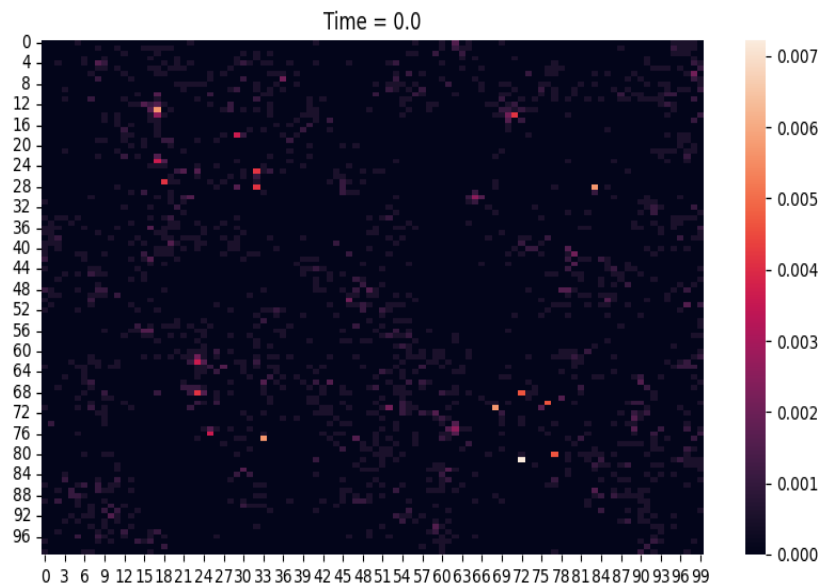
Mean : 0.1633461132248988
Variance : 0.013229297504095778

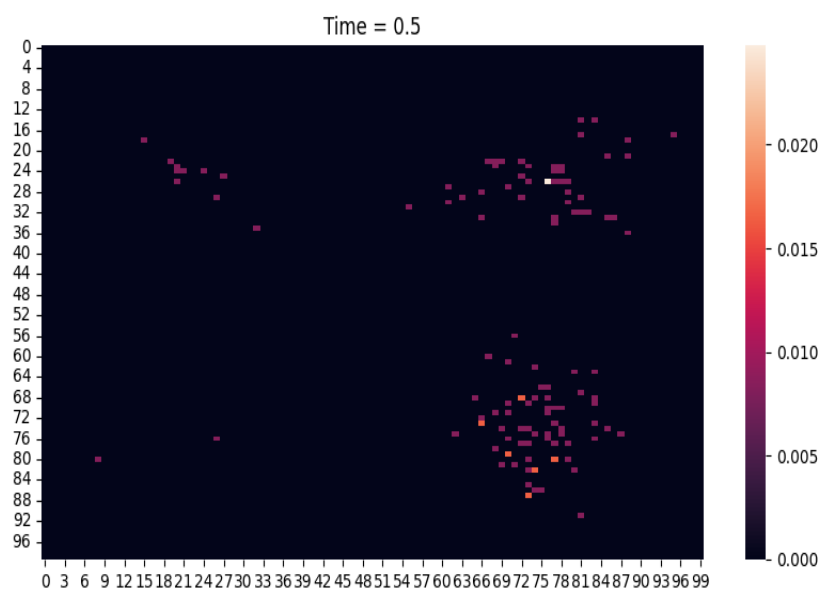
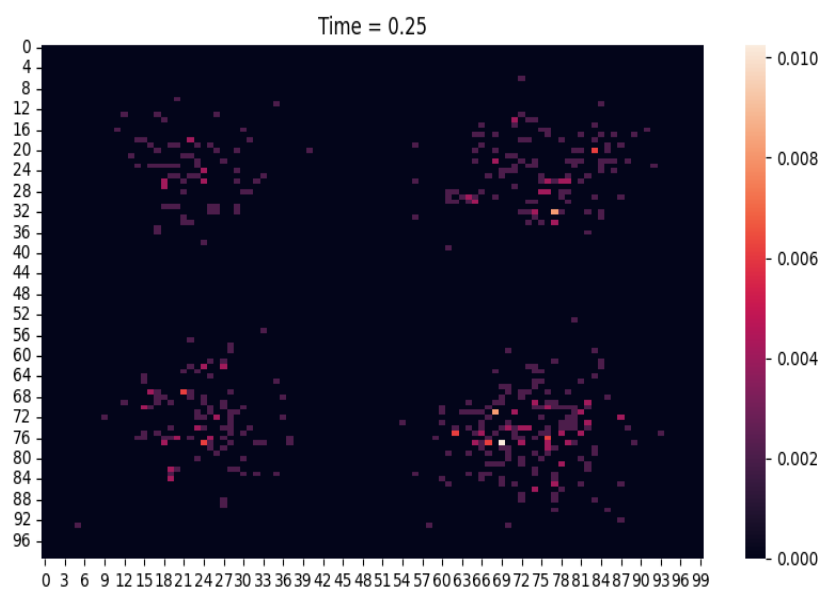


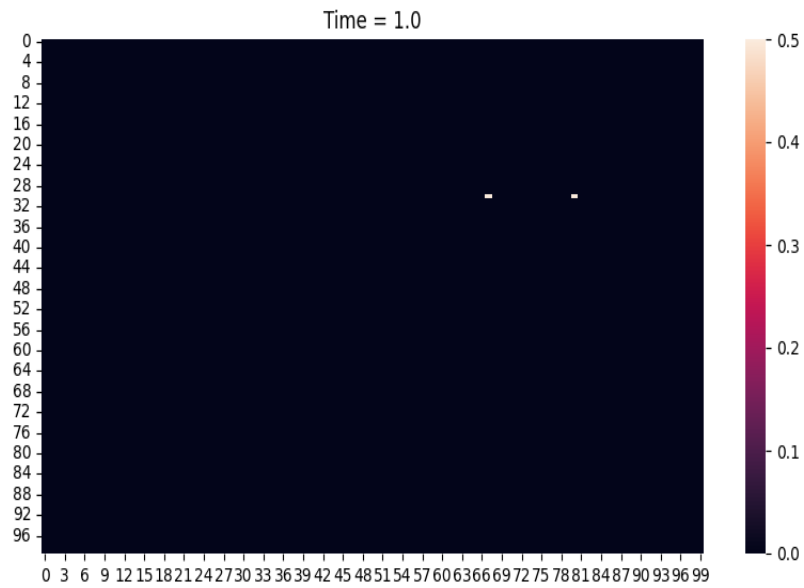
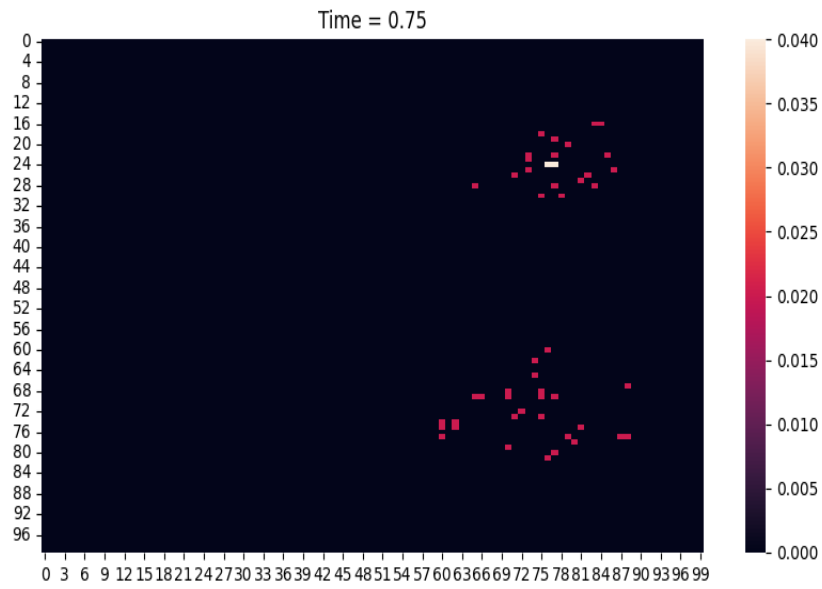
Mean : 0.20541695278589292
Variance : 0.018386458934348055



Mean : 0.2338751249439822
Variance : 0.01885191385441813
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.