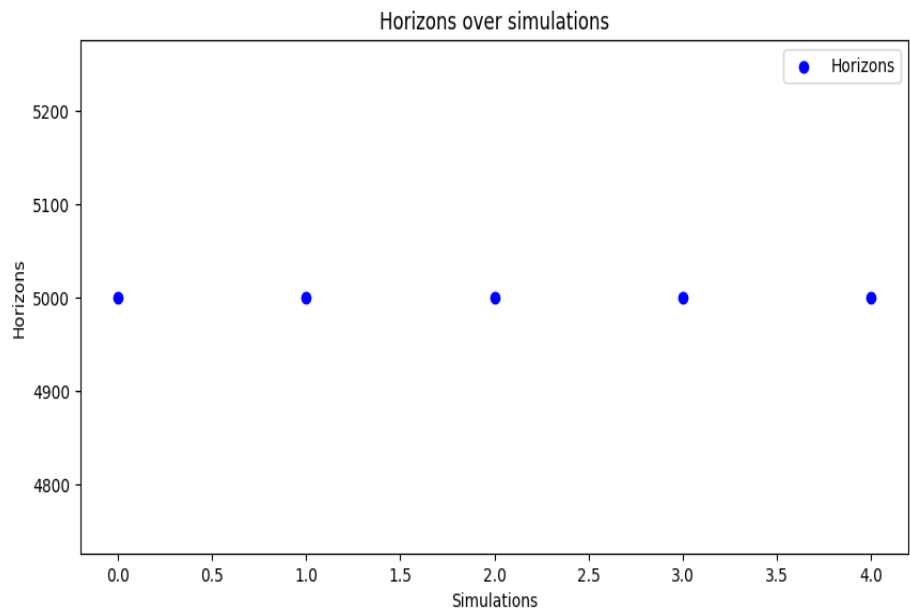


Test done 2025\_07\_04 at 14\_13\_01

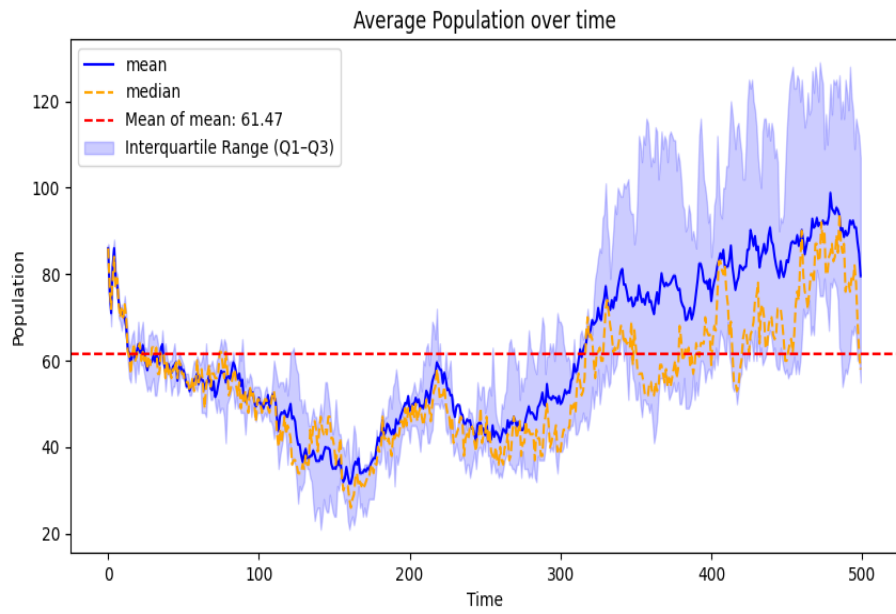
Number of simulation done : 5. The window time of the simulation is 10

Initial condition

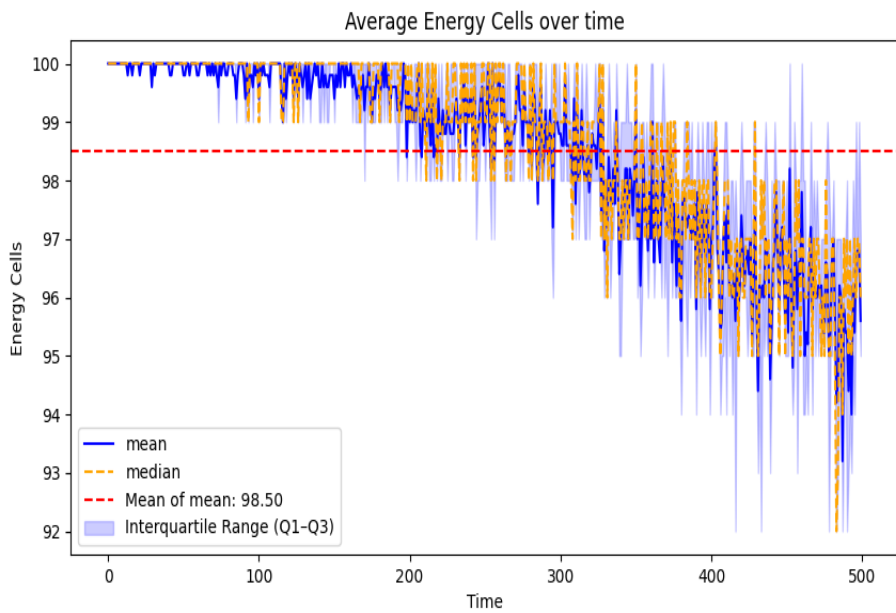
Size : 100  
I\_Energy : 150  
I\_Age : 150  
I\_Maturity : 30  
I\_Distr : Uniform  
Radius : 6  
Active : 100  
C\_Min : 15  
C\_Max : 200  
C\_Regen : 15  
C\_Distr : Uniform  
Height : 50  
Width : 50  
P\_Distr : Uniform  
Move : 1  
Eat : 3  
Rest : 0  
Reproduce : 5  
N\_Simulations : 5  
Seed : 123  
Energy Needed : 0.6  
Extra Energy : 0.2  
Energy Requeste : 0.5  
Mutation Rate : 0.1



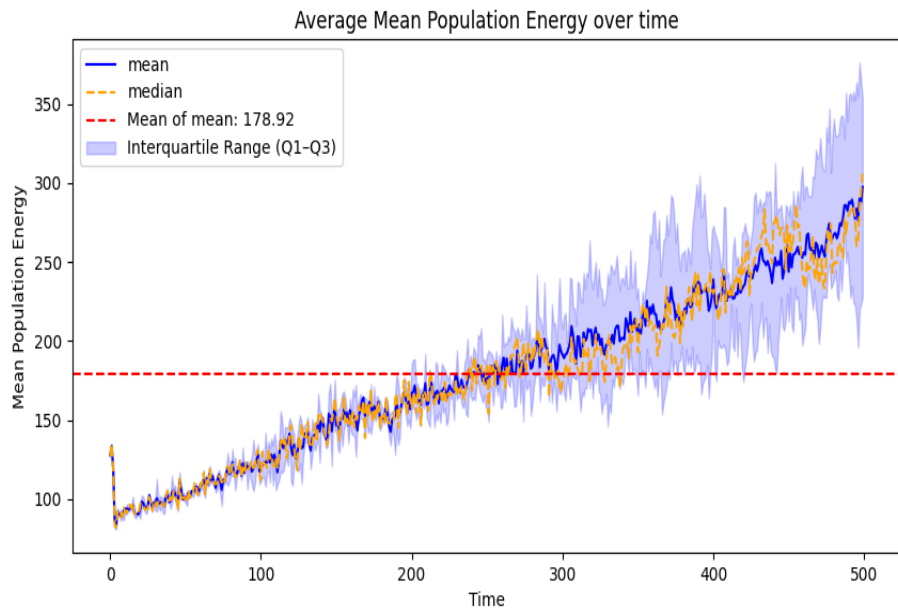
Mean : 5001.0  
Variance : 0.0



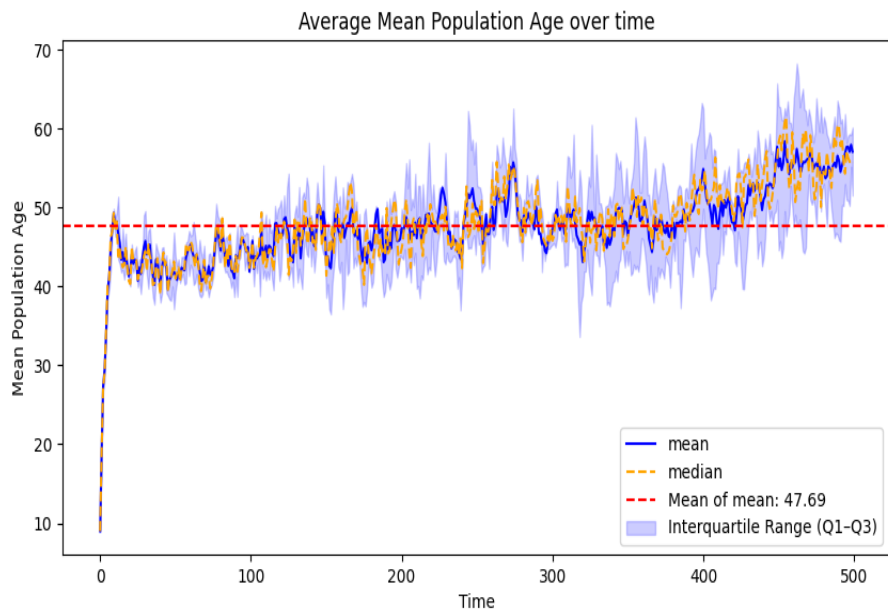
Mean : 61.4732  
Variance : 298.55968175999993



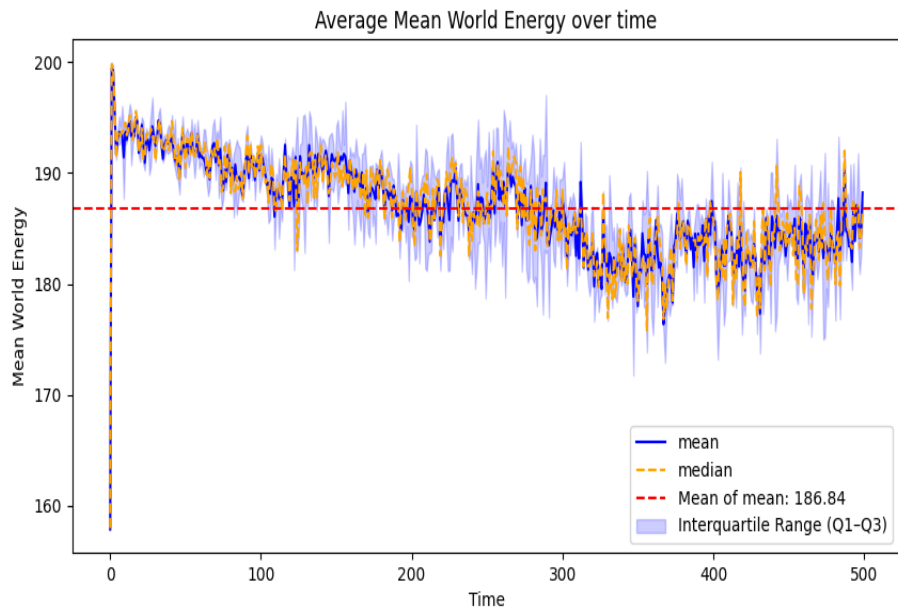
Mean : 98.5036  
Variance : 2.3072670399999998



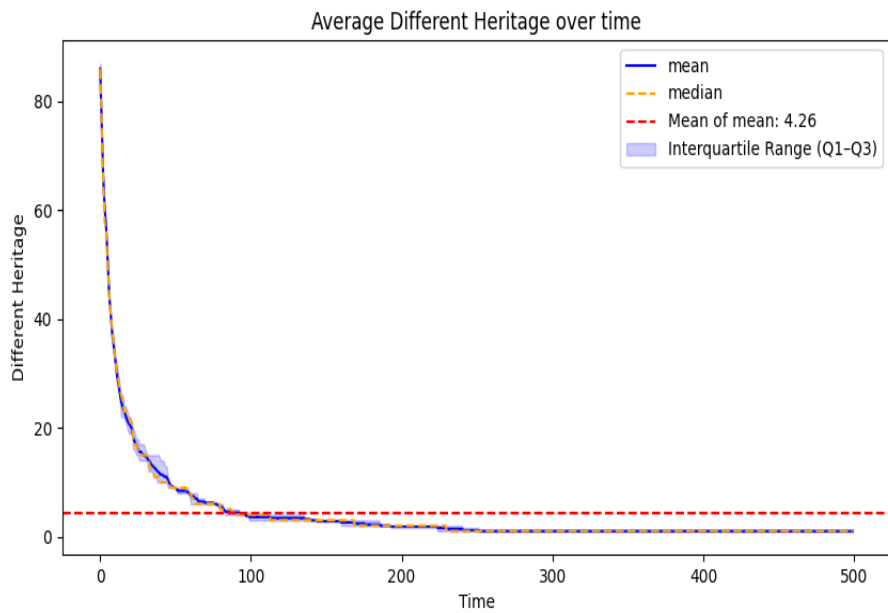
Mean : 178.92104454309148  
Variance : 2800.6929529411595



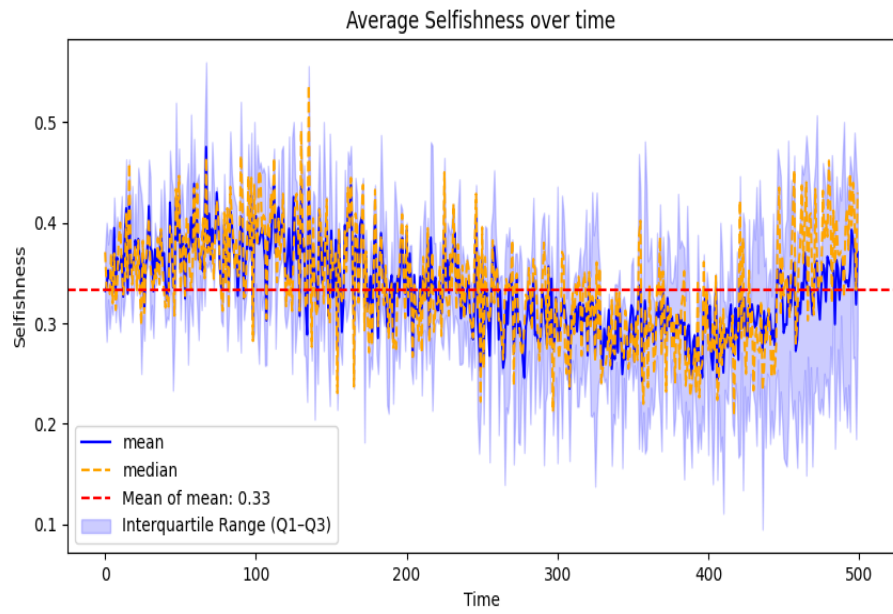
Mean : 47.68951606255071  
Variance : 22.26973530034133



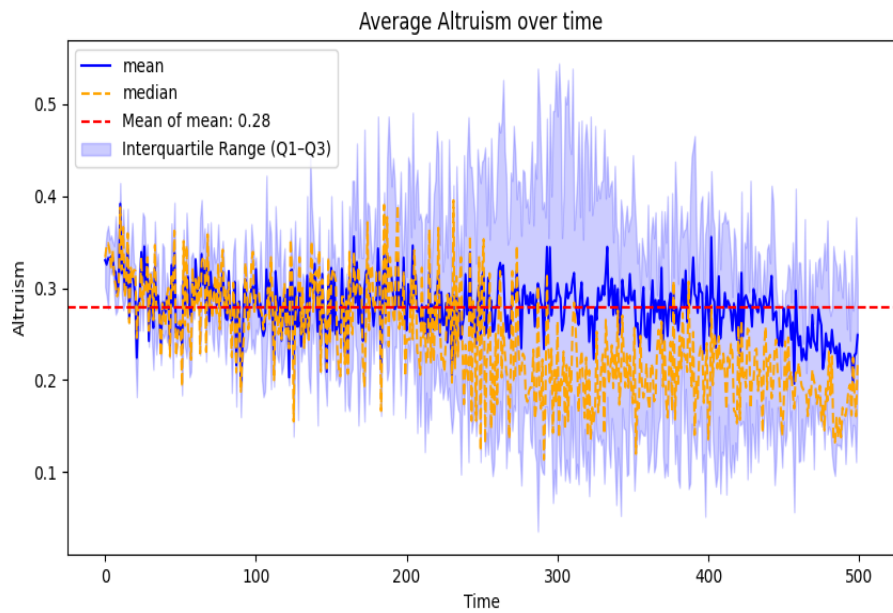
Mean : 186.83650700367218  
Variance : 17.3857219596298



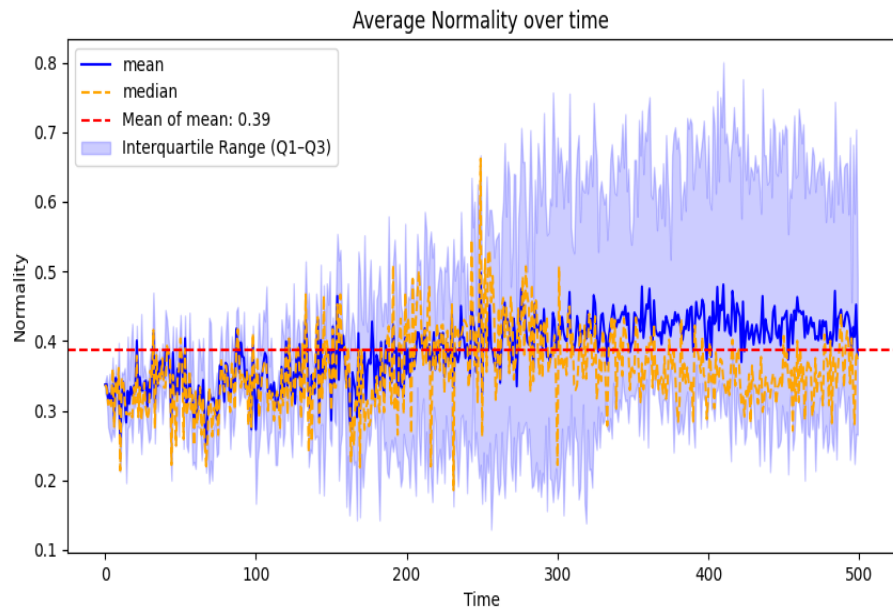
Mean : 4.258  
Variance : 79.541996



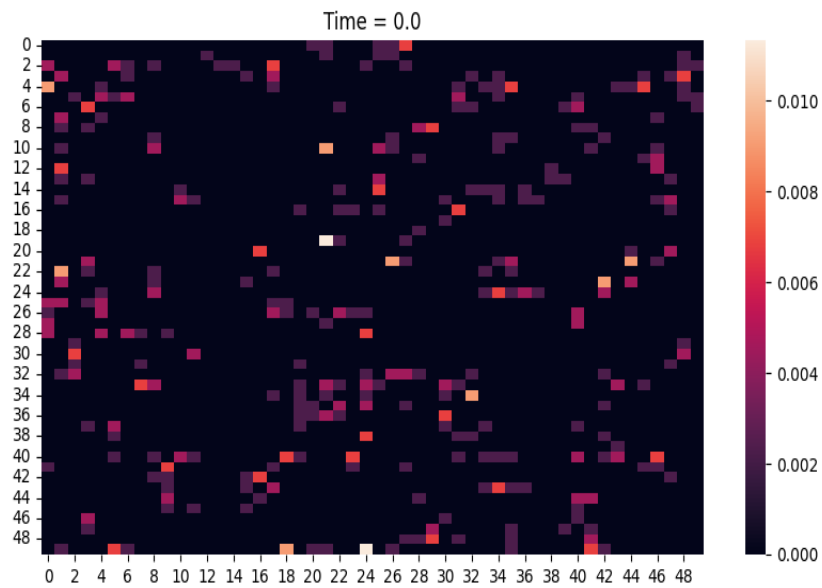
Mean : 0.33324080458951494  
Variance : 0.0018359954279487437

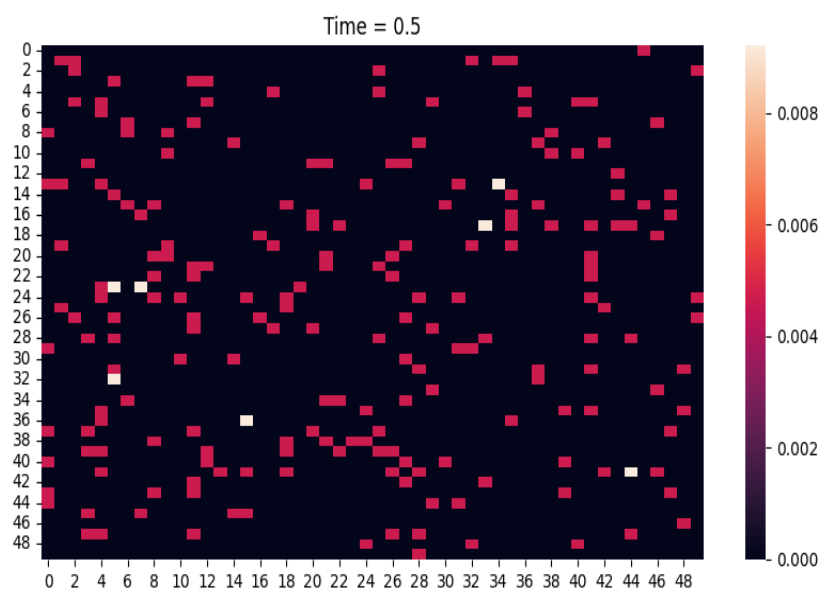
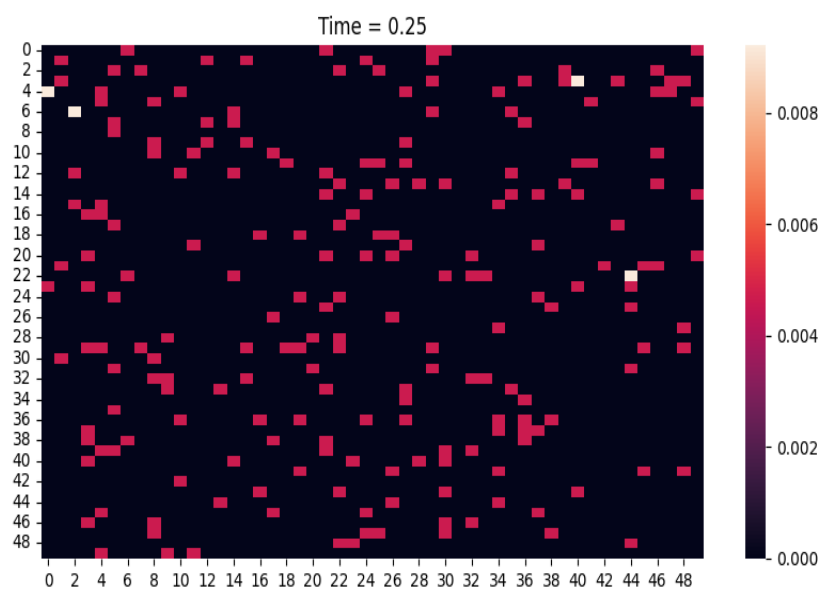


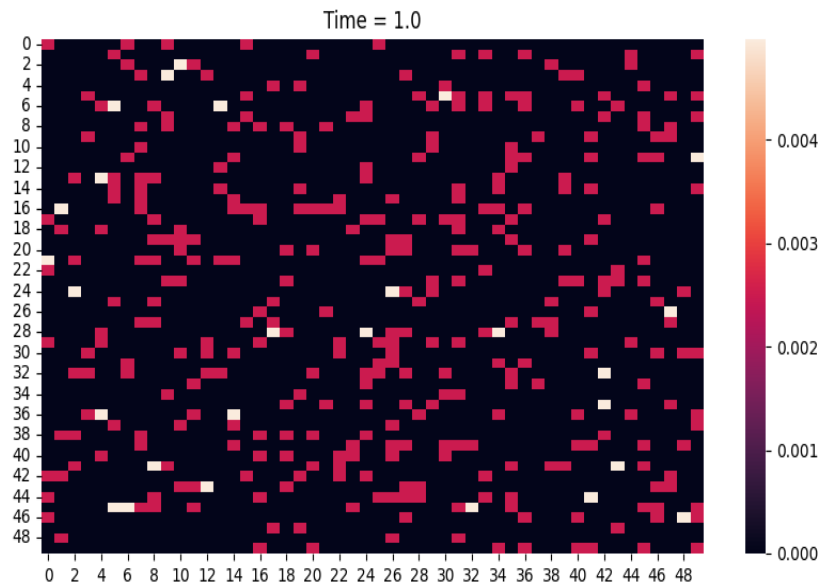
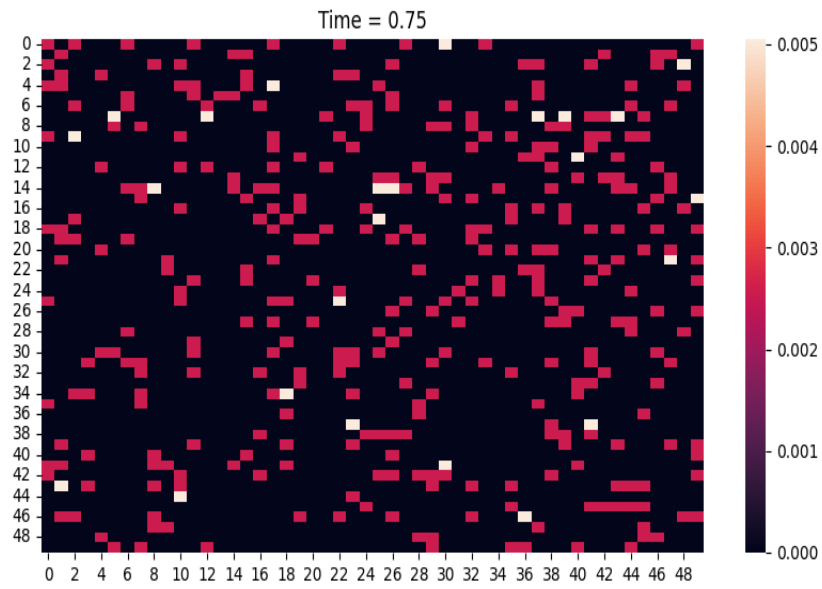
Mean : 0.27956333003662537  
Variance : 0.0009547368946054151



Mean : 0.38719586537385964  
Variance : 0.0021677781051527736  
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.