

Problem definition :

Group : Sorres Antonin, Houot Léa, Popescu-Cristea Antonio-Alexandru, Podeanu Alexia-Maria

Objective :

Reduce the average waiting time and queue length at a simple intersection (four branches) by learning to change the traffic light phases based on traffic conditions.

Modeling :

We will use SUMO for the traffic simulation. A Python script will be developed to dynamically change the traffic light phases. Using TraCI, the script will be integrated into SUMO to provide a visual representation of the simulation.