

Abstract

This final project discusses the application of cell transmission method model to simulate various traffic conditions. This method is relatively simple, and easy to develop. This is a macroscopic approach, which studies the behavior of vehicles not individually, but rather in groups. In this final project, the cell transmission method is used to simulate various traffic jam cases cause by road narrowing, road blockage for some time, and the case of merging between the main road with adjacent road. To simulate the merging case, it is necessary to apply the modified cell transmission method. Simulation results show various traffic situations that agree with our daily observations.

Keywords: Cell Transmission Model, Merge Scenario.