

Traffic Simulation with Intelligent Driving Model in Bandung City

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Abstract

Simulation programming is undergoing more and more significant changes and is getting more sophisticated year after year. This is certainly a convenience not only for scientists but also for other groups of society in studying complex, expensive, and time-consuming case studies. A case study of traffic flow in several cities in Indonesia with its traffic density which is almost always busy with motorized vehicles every day. Traffic simulation programming using microscopic models and IDM methods has been proven to be able to simulate traffic conditions in specific situations and help observe traffic without having to go directly to the field. This final project will discuss how to implement this method on roads in the city of Bandung and analyze simulations based on certain scenarios.

Keywords : Traffic flow, Microscopic Models, Intelligent Driving Models, Python Simulation.

