{Abstract}

ROAD TRAFFIC FLOW SIMULATION APPARATUS, ROAD TRAFFIC FLOW SIMULATION PROGRAM, AND ROAD TRAFFIC FLOW SIMULATION METHOD

Road traffic flow simulation sets a ratio of the number of electric vehicle models simulating electric vehicles using the remaining amount of power charged in storage batteries thereof as an attribute value thereof to the total number of vehicle models, as well as the number of charging station models for charging the storage batteries of the electric vehicle models and installation positions thereof; calculates the remaining capacity of the storage battery of an electric vehicle model running on a road network model simulating a road network including a plurality of roads and intersections connecting roads; and selects a charging station model for charging the storage battery corresponding to a charging required EV model in which a value based on the calculated remaining capacity of the storage battery is less than a predetermined threshold value. Thus, the road traffic flow simulation can simulate the charging process of the electric vehicle.

FIGURE 3