[Name of Document] ABSTRACT

The present invention includes a memory means 2 which stores traveling schedule information of a vehicle without a contact wire, information on a next station located on a traveling interval and information about a plurality of traffic lights on the traveling interval temporarily, and a velocity pattern calculation means 3 for calculating a velocity pattern of the vehicle based on the traveling schedule information, the information on the next station and the information about the plurality of the traffic lights, wherein the velocity pattern calculation means 3 calculates such a velocity pattern which satisfies conditions that the vehicle is never stopped at a first traffic light, that when the vehicle departs from a current stop station, the vehicle is accelerated at an constant acceleration a and that after the acceleration, the vehicle travels at a constant first velocity V_1.

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