Title (en)
METHOD FOR PREDICTING A VELOCITY PROFILE OF A VEHICLE

Title (de)
VERFAHREN ZUR PRÄDIKTION EINES GESCHWINDIGKEITSPROFILS EINES FAHRZEUGS

Title (fr)
PROCÉDÉ DE PRÉDICTION D'UN PROFIL DE VITESSE D'UN VÉHICULE

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Abstract (en)
[origin: WO2021069418A1] The present invention relates to a method for predicting a velocity profile (1) of a vehicle (2), which velocity profile represents a future velocity curve along a predetermined travel route (x) up to a specific preview horizon (3). The method comprises the following steps: generating a prediction model (4); entering input data (5.1, 5.2) into the prediction model (4); calculating output data (6) from the input data (5.1, 5.2) on the basis of at least one algorithm contained in the prediction model (4), wherein the output data (6) predict the velocity profile (1) of the vehicle (2); outputting the output data (6) from the prediction model (4). The input data (5.1, 5.2) have a first input data group (5.1.1, 5.1.2, 5.1.3), in which at least geocoordinates (5.1.1) of the travel route (x) are contained, and a second input data group (5.2.1, 5.2.2, 5.2.3), in which different input data are contained, specifically at least location information (5.2.1) of a digital map; average traffic flow data (5.2.2) along the travel route (x); and/or velocity profiles (5.2.3) of networked vehicles. A selection of input data from the second input data group (5.1.1, 5.1.2, 5.1.3) is made on the basis of a situational analysis (6) using predetermined criteria (11).

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