

Title (en)

METHOD, APPARATUS, STORAGE MEDIUM, AND VEHICLE FOR PREDICTING TRAFFIC FLOW

Title (de)

VERFAHREN, VORRICHTUNG, SPEICHERMEDIUM UND FAHRZEUG ZUR VORHERSAGE DES VERKEHRSFLUSSES

Title (fr)

PROCÉDÉ, APPAREIL, SUPPORT D'INFORMATIONS ET VÉHICULE POUR PRÉDIRE UN FLUX DE TRAFIC

Publication

**EP 4181101 A1 20230517 (EN)**

Application

**EP 22206769 A 20221110**

Priority

CN 202111334849 A 20211111

Abstract (en)

The disclosure relates to the field of intelligent driving, and specifically provides a method, apparatus, storage medium, and a vehicle for predicting traffic flow, comprising: selecting a target vehicle and a reference vehicle, and obtaining corresponding vehicle information; determining whether the target vehicle is in a following state based on the vehicle information and a non-free driving state of the target vehicle relative to the reference vehicle, and predicting traffic flow of a target lane. By the method of the disclosure, whether a moving speed of the target vehicle can represent an average speed of vehicles in the lane is determined based on a car-following theory, thereby obtaining more accurate lane-level traffic flow information and providing more accurate data support for intelligent driving.

IPC 8 full level

**G08G 1/01** (2006.01); **G08G 1/017** (2006.01); **G08G 1/052** (2006.01)

CPC (source: CN EP)

**G08G 1/0112** (2013.01 - CN EP); **G08G 1/0129** (2013.01 - EP); **G08G 1/0133** (2013.01 - CN EP); **G08G 1/0141** (2013.01 - EP); **G08G 1/0145** (2013.01 - EP); **G08G 1/0175** (2013.01 - EP); **G08G 1/052** (2013.01 - EP)

Citation (search report)

- [A] EP 2991055 A1 20160302 - MITSUBISHI HEAVY IND LTD [JP]
- [A] US 2013116909 A1 20130509 - SHIDA MITSUHIKA [JP]
- [I] ZHAO CHEN ET AL: "A Study on an Anthropomorphic Car-Following Strategy Framework of the Autonomous Coach in Mixed Traffic Flow", IEEE ACCESS, IEEE, USA, vol. 8, 6 April 2020 (2020-04-06), pages 64653 - 64665, XP011783725, DOI: 10.1109/ACCESS.2020.2985749
- [A] DURRANI UMAIR ET AL: "Calibrating the Wiedemann's vehicle-following model using mixed vehicle-pair interactions", TRANSPORTATION RESEARCH PART C:EMERGING TECHNOLOGIES, PERGAMON, NEW YORK, NY, GB, vol. 67, 7 March 2016 (2016-03-07), pages 227 - 242, XP029535749, ISSN: 0968-090X, DOI: 10.1016/J.TRC.2016.02.012

Designated contracting state (EPC)

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