Title (en)

AUTONOMOUS JUNCTION CROSSING OF AUTOMATED VEHICLE

Title (de)

AUTONOMES ÜBERFAHREN EINER KREUZUNG EINES AUTOMATISIERTEN FAHRZEUGS

Title (fr)

TRAVERSÉE AUTONOME DE CARREFOUR PAR UN VÉHICULE AUTONOME

Publication

EP 4030408 A1 20220720 (EN)

Application

EP 21152407 A 20210119

Priority

EP 21152407 A 20210119

Abstract (en)

Provided is a method for planning and/or controlling an autonomous junction crossing of an automated vehicle, wherein the method comprises a junction analysis step, wherein the junction analysis step comprises detecting a traffic junction based on image data corresponding to an environment of the automated vehicle using a first neural network, and a decision-making step, wherein the decision-making step comprises deciding if the automated vehicle can cross the detected traffic junction based on the image data using a Bayesian network.

IPC 8 full level

G08G 1/16 (2006.01)

CPC (source: EP)

G08G 1/166 (2013.01)

Citation (applicant)

CN 107272687 A 20171020 - SHENZHEN HAYLION TECH CO LTD

Citation (search report)

- [X] US 2020410254 A1 20201231 - PHAM TRUNG [US], et al
- [A] WELLHAUSEN LORENZ ET AL: "Map-optimized probabilistic traffic rule evaluation", 2016 IEEE/RSJ INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS), IEEE, 9 October 2016 (2016-10-09), pages 3012 - 3017, XP033011816, DOI: 10.1109/IROS.2016.7759466
- [A] JOEL JANAI ET AL: "Computer Vision for Autonomous Vehicles: Problems, Datasets and State of the Art", 17 December 2019 (2019-12-17), XP055657497, Retrieved from the Internet <URL:https://arxiv.org/pdf/1704.05519.pdf> [retrieved on 20200114]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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