

Title (en)

ADAPTATION OF THE TRAJECTORY OF AN EGO VEHICLE TO MOVED EXTRANEIOUS OBJECTS

Title (de)

ANPASSUNG DER TRAJEKTORIE EINES EGO-FAHRZEUGS AN BEWEGTE FREMDOBJEKTE

Title (fr)

ADAPTATION DE LA TRAJECTOIRE D'UN ÉGO-VÉHICULE À DES OBJETS ÉTRANGERS EN MOUVEMENT

Publication

**EP 3811351 A1 20210428 (DE)**

Application

**EP 19727327 A 20190522**

Priority

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- EP 2019063232 W 20190522

Abstract (en)

[origin: WO2020001867A1] A method (100, 200) for predicting the trajectories (2a-4a) of extraneous objects (2-4) in the surroundings (11) of an ego vehicle (1) and for determining a separate future trajectory (1a), adapted thereto, for the ego vehicle (1), comprising the steps: • the extraneous objects (2-4) are identified (110); • the close-range target (2b-4b) to which the movement of each of the extraneous objects (2-4) leads and the basic rules (2c-4c) according to which this movement occurs are determined (120); • the close-range target (1b) to which the movement of the ego vehicle (1) leads and the basic rules (1c) according to which this movement occurs are determined (130); • a quality function RI-4 is respectively set up (140) for the ego vehicle (1) and for the extraneous object (2-4); • a quality measure Q1-4 is respectively set up (150) for the ego vehicle (1) and for the extraneous objects (2-4); • the optimum movement strategies  $\pi_1-4$  of the ego vehicle and of the extraneous objects (2-4) which maximise the quality level Q1-4 are determined (160); • the searched-for trajectories (1a-4a) are determined (170) from the optimum movement strategies  $\pi_1-4$ . A method (100) for controlling the ego vehicle 1. An associated computer program.

IPC 8 full level

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