

Title (en)

METHOD FOR DETERMINING A TRAJECTORY OF A MOTOR VEHICLE

Title (de)

VERFAHREN ZUM BESTIMMEN EINER TRAJEKTORIE EINES KRAFTFAHRZEUGS

Title (fr)

PROCÉDÉ DE DÉTERMINATION D'UNE TRAJECTOIRE D'UN VÉHICULE AUTOMOBILE

Publication

**EP 4185504 A1 20230531 (FR)**

Application

**EP 21742847 A 20210721**

Priority

- FR 2007743 A 20200723
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Abstract (en)

[origin: WO2022018110A1] The invention relates to a method for determining a trajectory of a motor vehicle (100) characterised in that it comprises the steps of: - identifying a plurality of objects (101, 102, 200, 201, 300) present in the surroundings of the motor vehicle (100), - for each object: a) determining a speed of impact between the object of interest and the motor vehicle, b) determining a risk of injury in the event of a collision with the motor vehicle at the determined impact speed, c) determining the probability of a collision resulting in an injury between the object of interest and the motor vehicle, depending on the determined risk of injury, subsequently - determining a plurality of possible trajectories for the motor vehicle, and - determining the trajectory to be followed by the motor vehicle by optimising a cost function which depends on the determined collision probabilities and which minimises the risk of collision resulting in an injury between each object and the motor vehicle.

IPC 8 full level

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Citation (search report)

See references of WO 2022018110A1

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