

Title (en)

METHOD AND DRIVER ASSISTANCE SYSTEM FOR CLASSIFYING OBJECTS IN THE AREA AROUND A MOTOR VEHICLE

Title (de)

VERFAHREN UND FAHRERASSISTENZSYSTEM ZUR KLASSIFIZIERUNG VON OBJEKTEN IN DER UMGEBUNG EINES FAHRZEUGS

Title (fr)

PROCÉDÉ ET SYSTÈME D'ASSISTANCE AU CONDUCTEUR POUR LA CLASSIFICATION D'OBJETS DANS L'ENVIRONNEMENT D'UN VÉHICULE

Publication

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Application

EP 20723340 A 20200429

Priority

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Abstract (en)

[origin: WO2020239351A1] The invention relates to a method for classifying objects in the area around a vehicle (1) using ultrasonic sensors (10), which transmit ultrasonic pulses and receive ultrasonic echoes reflected by objects, wherein distances between a respective ultrasonic sensor (10) and objects in the surroundings reflecting ultrasonic pulses are determined by means of at least two ultrasonic sensors (10) having at least partially overlapping fields of view (30) and the position of the reflecting objects is determined to distinguish between elongate objects and point-like objects using lateration and assignment of the received ultrasonic echoes to object hypotheses. The invention further provides that the height of a point-like object represented by an object hypothesis is classified using, as classification parameters, the update rate of the object hypothesis, stability of the position of the object represented by the object hypothesis, the amplitude of the ultrasonic echos assigned to the object hypothesis and a probability that the ultrasonic sensors (10) will receive an ultrasonic echo from the object which is represented by the object hypothesis. A further aspect of the invention relates to a driver assistance system (100) configured for performing the method.

IPC 8 full level

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Citation (search report)

See references of WO 2020239351A1

Designated contracting state (EPC)

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