Title (en)
METHOD FOR A HOST VEHICLE TO ASSESS RISK OF OVERTAKING A TARGET VEHICLE ON A PEDESTRIAN CROSSING

Title (de)
VERFAHREN FÜR EIN HOST-FAHRZEUG ZUR BEWERTUNG DES RISIKOS DES ÜBERHOLENS EINES ZIELFAHRZEUGS AUF EINEM FUSSGÄNGERSTREIFEN

Title (fr)
PROCÉDÉ POUR VÉHICULE HÔTE PERMETTANT D'ÉVALUER LE RISQUE DE DÉPASSEMENT D'UN VÉHICULE CIBLE SUR UN PASSAGE POUR PIÉTONS

Publication
EP 3576069 A1 20191204 (EN)

Application
EP 18175202 A 20180530

Priority
EP 18175202 A 20180530

Abstract (en)
A risk evaluation system for a host vehicle (10) for assessing the risk of overtaking a target vehicle (12) on a pedestrian crossing (14) comprises, an object detector means (30) configured to detect a pedestrian crossing (14) and to detect a target vehicle (12) in the front field of view of the host vehicle (10); a controller (48) in communication with the object detector means (30), wherein the controller is configured to determine the pedestrian crossing location (50) and to determine the target vehicle driving behavior (54); the controller (48) is further configured to detect a deceleration of the target vehicle (12); to evaluate a target vehicle stop distance (SD_t) between the target vehicle (12) and the pedestrian crossing (14) based on the target vehicle speed if the target vehicle (12) has been detected in a deceleration mode; to compare the evaluated target vehicle stop distance (SD_t) with a predetermined target stop distance threshold (TSD_th); and to estimate a risk for the host vehicle (10) of overtaking the target vehicle (12) on the pedestrian crossing (14) based on the comparison step result of the target vehicle stop distance (SD_t).

IPC 8 full level
G08G 1/16 (2006.01)

CPC (source: EP)
G08G 1/166 (2013.01)

Citation (search report)
- [I] EP 3273423 A1 20180124 - CONTINENTAL AUTOMOTIVE GMBH [DE]
- [A] US 2009303026 A1 20091210 - BROGGI ALBERTO [IT], et al
- [A] JP 2011108016 A 20110602 - TOYOTA MOTOR CORP

Cited by
CN113793534A; CN114312772A; CN115148017A; CN114274928A; CN115331436A; US2022111871A1; US11738682B2; WO2023138039A1

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

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BA ME

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