

Title (en)
METHOD FOR CONTROLLING A LONGITUDINAL MOTION OF A MOTOR VEHICLE IN A PROCESS OF CHANGING LANES, COMPUTER PROGRAM PRODUCT, COMPUTER-READABLE STORAGE MEDIUM, CONTROL MODULE, AND MOTOR VEHICLE

Title (de)
VERFAHREN ZUM STEUERN EINER LÄNGSBEWEGUNG EINES KRAFTFAHRZEUGS IN EINEM SPURWECHSELVERFAHREN, COMPUTERPROGRAMMPRODUKT, COMPUTERLESBARES SPEICHERMEDIUM, STEUERMODUL UND KRAFTFAHRZEUG

Title (fr)
PROCÉDÉ DE COMMANDE DE MOUVEMENT LONGITUDINAL DE VÉHICULE À MOTEUR DANS UN PROCESSUS DE CHANGEMENT DE VOIE, PRODUIT PROGRAMME INFORMATIQUE, SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR, MODULE DE COMMANDE ET VÉHICULE À MOTEUR

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Abstract (en)
[origin: WO2022268289A1] The invention is concerned with a method for controlling a longitudinal motion of a first motor vehicle (10) during a change of lanes (26, 28, 30) process. A control module (14) determines that a turn signal of a direction indicator system (12) is activated (S1), predefines a lane change area (44), (S2), and receives at least one surrounding data signal describing at least one object within the predefined lane change area (44, S3). The control module (14) provides a traffic situation model (S4), and predicts a gap (52) for the first motor vehicle's (10) lane change (S5), a time period of when the predicted gap (52) is sideways the first motor vehicle (10, S6), and a point of time for accelerating the motor vehicle (10, S7) preceding the lane change. The control module (14) then initiates the acceleration of motor vehicle (10) preceding the lateral lane change.

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