

Title (en)
EMBEDDED SYSTEM ON BOARD A MOTOR VEHICLE FOR A CHANGE OF LANE FUNCTIONALITY, AND ASSOCIATED METHOD OF CONTROL

Title (de)
EINGEBETTETES SYSTEM AN BORD EINES KRAFTFAHRZEUGS FÜR SPURWECHSELFUNKTION UND ENTSPRECHENDES STEUERUNGSVERFAHREN

Title (fr)
SYSTÈME EMBARQUÉ SUR UN VÉHICULE AUTOMOBILE POUR UNE FONCTIONNALITÉ DE CHANGEMENT DE VOIE, ET PROCÉDÉ DE CONTRÔLE ASSOCIÉ

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Application
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Abstract (en)
[origin: WO2016162434A1] The invention relates to a system able to be embedded on board a motor vehicle (1) for an automatic or semi-automatic change of lane functionality. The system according to the invention comprises: to observe a zone ahead of the motor vehicle (1) with a view to detecting an obstacle ahead, at least two and at most three front sets of sensors of different technologies (53, 41, 42, 31); to observe a zone behind the motor vehicle (1) with a view to detecting an obstacle behind (VR), at least two and at most three rear sets of sensors of different technologies (54, 43, 44, 32); to observe each lateral zone of the motor vehicle with a view to detecting a lateral obstacle, at most two lateral sets of sensors (4- | -44, 5-i, 52) of different technologies; and a means (8) of control able to generate temporal extrapolations of information delivered by the rear sets and the front sets, and to combine the said temporal extrapolations with information delivered by the lateral set with a view to authorising or otherwise a change of lane of the motor vehicle (1).

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