Title (en)

METHOD AND WARNING DEVICE FOR WARNING A FOLLOWING VEHICLE ON A DEFINED ROADWAY SECTION ABOUT AN OBSTACLE

Title (de)

VERFAHREN UND WARNVORRICHTUNG ZUM WARNEN EINES NACHFOLGEFAHRZEUGS AUF EINEM DEFINIERTEN FAHRBAHNABSCHNITT VOR EINEM HINDERNIS

Title (fr)

PROCÉDÉ ET DISPOSITIF D'AVERTISSEMENT POUR AVERTIR UN VÉHICULE SUIVEUR SUR UNE SECTION DE CHAUSSÉE DÉFINIE À PROPOS D'UN OBSTACLE

Publication

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Application

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Abstract (en)

[origin: WO2022207045A1] The invention relates to a method and a warning device for warning a following vehicle (42) on a defined roadway section (10) about an obstacle (36), wherein a plurality of ego-trajectories (14) of ego-vehicles (12) which move on the roadway section (10) in a first time interval [t1; t2] are captured and a first swarm trajectory (30) is calculated therefrom and is stored together with a first timestamp (T1). Similarly, a second swarm trajectory (38) is calculated from ego-trajectories (14) of ego-vehicles (12) which move on the roadway section (10) in a second time interval [t3; t4], the second time interval [t3; t4] being temporally offset to the first time interval [t1; t2]. The second swarm trajectory (38) too is stored together with a second timestamp (T2), whereupon a difference between the first swarm trajectory (30) and the second swarm trajectory (38) and an associated difference magnitude ($|\Delta x|$) are calculated. If said difference magnitude ($|\Delta x|$) is greater than a predefined threshold value (xs), it is recognized that there is an obstacle (36) on the roadway (10) and consequently a warning signal (40) is output to a following vehicle (42). The invention also relates to a corresponding warning device designed to carry out the method.

IPC 8 full level

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