Title (en)

COMPUTER-IMPLEMENTED METHOD AND COMPUTER PROGRAM FOR MACHINE-LEARNING A ROBUSTNESS OF AN ACOUSTIC CLASSIFIER, ACOUSTIC CLASSIFICATION SYSTEM FOR AUTOMATICALLY OPERABLE DRIVING SYSTEMS, AND AUTOMATICALLY OPERABLE DRIVING SYSTEM

Title (de)

COMPUTERIMPLEMENTIERTES VERFAHREN UND COMPUTERPROGRAMM ZUM MASCHINELLEN LERNEN EINER ROBUSTHEIT EINES AKUSTISCHEN KLASSIFIKATORS, AKUSTISCHES KLASSIFIKATIONSSYSTEM FÜR AUTOMATISIERT BETREIBBARE FAHRSYSTEME UND AUTOMATISIERT BETREIBBARES FAHRSYSTEM

Title (fr)

PROCÉDÉ MIS EN OEUVRE PAR ORDINATEUR ET PROGRAMME D'ORDINATEUR POUR L'APPRENTISSAGE MACHINE D'UNE ROBUSTESSE D'UN CLASSIFICATEUR ACOUSTIQUE, SYSTÈME DE CLASSIFICATION ACOUSTIQUE POUR DES SYSTÈMES DE CONDUITE POUVANT ÊTRE COMMANDÉS AUTOMATIQUEMENT, ET SYSTÈME DE CONDUITE POUVANT ÊTRE COMMANDÉ AUTOMATIQUEMENT

Publication

EP 4189673 A1 20230607 (DE)

Application

EP 21742385 A 20210712

Priority

- DE 102020209446 A 20200727
- EP 2021069321 W 20210712

Abstract (en)

[origin: WO2022023008A1] A computer-implemented method for machine-learning a robustness of an acoustic classifier (AK), wherein a driving system is controlled automatically on the basis of classifications and/or locations of the acoustic classifier (AK), the method comprising the steps of providing first input signals by way of a driving system acoustic sensor for the acoustic classifier (AK) (V1), receiving interference (S) on the basis of the first input signals for fraud identification, fraud avoidance and/or fraud protection purposes and/or for improving a recognition and/or classification performance of the acoustic classifier (AK), wherein an audibility of the interference is reduced (V2), receiving second input data from an addition of the first input data and the interference (V3), inputting combinations of the first and second input data into the acoustic classifier (AK) (V4) and machine-learning the combinations (V5), wherein the acoustic classifier (AK) learns to classify and/or locate acoustic events and in the process becomes robust to interference.

IPC 8 full level

G10L 15/20 (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2022023008A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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DOCDB simple family (publication)

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