

Title (en)  
METHOD FOR DETERMINING THE WEIGHT OF A LOAD OF A MOBILE WORK MACHINE, LEARNING METHOD FOR A DATA-BASED MODEL, AND MOBILE WORK MACHINE

Title (de)  
VERFAHREN ZUM BESTIMMEN DES GEWICHTS EINER BELADUNG EINER MOBILEN ARBEITSMASCHINE, LERNVERFAHREN FÜR EIN DATENBASIERTES MODELL UND MOBILE ARBEITSMASCHINE

Title (fr)  
PROCÉDÉ DE DÉTERMINATION DU POIDS D'UNE CHARGE D'UNE MACHINE DE TRAVAIL MOBILE, PROCÉDÉ D'APPRENTISSAGE POUR UN MODÈLE BASÉ SUR DES DONNÉES ET MACHINE DE TRAVAIL MOBILE

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Abstract (en)  
[origin: WO2022069467A1] The invention relates to a method for determining a weight value of a load acting on a working tool of a mobile work machine, in which a model-based weight value ( $G \cdot Z$ ) of the load is determined from at least one measured value of at least one changeable measurement variable (200, 202) of the mobile work machine using a physical model (204) of the mobile work machine, and in which, using a data-based model such as, for example, an artificial neural network (210), with at least one input value which comprises the at least one measured value, a correction value (K) is determined as an output value, by which the model-based weight value ( $G \cdot Z$ ) of the load is corrected. The invention also relates to a method for training a data-based model such as, for example, an artificial neural network (210), and to such a mobile work machine.

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