Title (en)

TRAINING NEURAL NETWORKS FOR EFFICIENT IMPLEMENTATION ON HARDWARE

Title (de)

TRAINING NEURONALER NETZWERKE FÜR EFFIZIENTES IMPLEMENTIEREN AUF HARDWARE

Title (fr)

APPRENTISSAGE DE RÉSEAUX NEURONAUX POUR UNE MISE EN OEUVRE EFFICACE SUR UN MATÉRIEL

Publication

EP 3931760 A1 20220105 (DE)

Application

EP 20705699 A 20200217

Priority

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Abstract (en)

[origin: WO2020178009A1] A method (100) for training an artificial neural network, ANN (1), which comprises a plurality of neurons (2), comprising the following steps: • a measure of the quality (11) that the ANN (1) has achieved overall within a past time period is determined (110); • one or more neurons (2) are evaluated on the basis of a measure of their respective quantitative contributions (21) to the determined quality (11) (120); • actions (22), by means of which the evaluated neurons (2) are respectively trained in the further course of the training, and/or weights (23) of said neurons (2) in the ANN (1) are defined on the basis of the evaluations (120a) of the neurons (2) (130). The method (200) according to claim 11, wherein a computing unit (4) having hardware resources for a specified number of neurons (2), layers (3a, 3b) of neurons (2) and/or connections (25) between neurons (2) is selected (205a), and wherein a model (1a) of the ANN (1) having a number of neurons (2), layers (3a, 3b) of neurons (2) and/or connections (25) between neurons (2) that exceeds the specified number is selected (205b).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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