

Title (en)

ACCELERATING NEURON COMPUTATIONS IN ARTIFICIAL NEURAL NETWORKS BY SELECTING INPUT DATA

Title (de)

BESCHLEUNIGUNG VON NEURONENBERECHNUNGEN IN KÜNSTLICHEN NEURONALEN NETZEN DURCH AUSWAHL VON EINGANGSDATEN

Title (fr)

ACCÉLÉRATION DE CALCULS NEURONAUX DANS DES RÉSEAUX NEURONAUX ARTIFICIELS PAR SÉLECTION DES DONNÉES D'ENTRÉE

Publication

EP 3953867 A1 20220216 (EN)

Application

EP 19721844 A 20190408

Priority

IB 2019052881 W 20190408

Abstract (en)

[origin: WO2020208396A1] An example method for accelerating neuron computations in an artificial neural network (ANN) comprises receiving a plurality of pairs of first values and second values associated with a neuron of an ANN, selecting pairs from the plurality of pairs, wherein a count of the selected pairs is less than a count of all pairs in the plurality of pairs, performing mathematical operations on the selected pairs to obtain a result, determining that the result does not satisfy a criterion, and, until the result satisfies the criterion, selecting further pairs from the plurality, performing the mathematical operations on the selected further pairs to obtain further results, and determining, based on the result and the further results, an output of the neuron.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2020208396A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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