Title (en)

METHOD AND SYSTEM FOR CONFIGURING THE NEURAL NETWORKS OF A SET OF NODES OF A COMMUNICATION NETWORK

Title (de

VÉRFAHREN UND SYSTEM ZUR KONFIGURATION DER NEURONALEN NETZWERKE EINER GRUPPE VON KNOTEN EINES KOMMUNIKATIONSNETZWERKS

Title (fr)

PROCÉDÉ ET SYSTÈME DE CONFIGURATION DE RÉSEAUX DE NEURONES D'UN ENSEMBLE DE NOEUDS D'UN RÉSEAU DE COMMUNICATION

Publication

EP 4396732 A1 20240710 (FR)

Application

EP 22773284 A 20220829

Priority

- FR 2109043 A 20210830
- FR 2022051617 W 20220829

Abstract (en)

[origin: WO2023031544A1] Said method makes it possible to configure the weights of neural network models of nodes from a set of nodes of a communication network, the neural networks all having a model with the same structure. It comprises: - partitioning the set of nodes into at least one cluster of nodes; - sending, to a node belonging to the at least one cluster, an item of information according to which the node should act as an aggregation node in the cluster and identifiers of the nodes of the cluster, the node subsequently being referred to as the aggregation node of the cluster; - sending, to the aggregation node of the at least one cluster, a request for learning the weights of the node models of the cluster with the weights of a global model for the set of nodes; - a step of receiving, from the aggregation node of the at least one cluster, the weights of an aggregated model of the cluster resulting from the training; and - updating the weights of the global model by aggregating the weights received from the aggregated model of the at least one cluster.

IPC 8 full level

G06N 3/08 (2023.01); G06N 5/00 (2023.01)

CPC (source: EP)

G06N 3/084 (2013.01); G06N 5/01 (2023.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

FR 3126575 A1 20230303; EP 4396732 A1 20240710; WO 2023031544 A1 20230309

DOCDB simple family (application)

FR 2109043 A 20210830; EP 22773284 A 20220829; FR 2022051617 W 20220829