

Title (en)
NEURAL NETWORK AND METHOD OF NEURAL NETWORK TRAINING

Title (de)
NEURONALES NETZWERK UND VERFAHREN ZUM TRAINIEREN EINES NEURONALEN NETZWERKS

Title (fr)
RÉSEAU NEURONAL ET PROCÉDÉ D'APPRENTISSAGE DE RÉSEAU NEURONAL

Publication
EP 3469521 A1 20190417 (EN)

Application
EP 17811082 A 20170609

Priority
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Abstract (en)
[origin: WO2017214507A1] A neural network includes inputs for receiving input signals, and synapses connected to the inputs and having corrective weights organized in an array. Training images are either received by the inputs as an array or codified as such during training of the network. The network also includes neurons, each having an output connected with at least one input via one synapse and generating a neuron sum array by summing corrective weights selected from each synapse connected to the respective neuron. Furthermore, the network includes a controller that receives desired images in an array, determines a deviation of the neuron sum array from the desired output value array, and generates a deviation array. The controller modifies the corrective weight array using the deviation array. Adding up the modified corrective weights to determine the neuron sum array reduces the subject deviation and generates a trained corrective weight array for concurrent network training.

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