

Title (en)
METHOD OF MODELLING FOR CHECKING THE RESULTS PROVIDED BY AN ARTIFICIAL NEURAL NETWORK AND OTHER ASSOCIATED METHODS

Title (de)
MODELLIERUNGSVERFAHREN ZUR ÜBERPRÜFUNG DER ERGEBNISSE EINES KÜNSTLICHEN NEURONALEN NETZES UND ANDERE ZUGEHÖRIGE VERFAHREN

Title (fr)
PROCEDE DE MODELISATION POUR LE CONTROLE DES RESULTATS FOURNIS PAR UN RESEAU DE NEURONES ARTIFICIELS ET AUTRES PROCEDES ASSOCIES

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Application
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Abstract (en)
[origin: WO2020002573A1] An aspect of the invention relates to a method of modelling for checking the results provided by an artificial neural network comprising the following steps: - Generate an artificial neural network; - Train the artificial neural network on a training database; - Test the artificial neural network on at least one test datum dependent on a plurality of variables v_i ; so as to obtain a result R per test datum, the result R being dependent on the variables v_i ; - for each result R: · Approximate by a linear model a first function F1 dependent solely on the result R so as to obtain a second function F2, the first function F1 and the second function F2 being dependent on the variables v_i ; · Simplify the second function F2 to obtain a third function F3 dependent on a smaller number of variables v_i ; · Apply to the third function F3 the inverse function of the first function F1 to obtain an operating model of the neural network.

IPC 8 full level
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