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

ABSTRACT

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 F_1 dependent solely on the result R so as to obtain a second function F_2, the first function F_1 and the second function F_2 being dependent on the variables v_i; · Simplify the second function F_2 to obtain a third function F_3 dependent on a smaller number of variables v_i; · Apply to the third function F_3 the inverse function of the first function F_1 to obtain an operating model of the neural network.

[No Figure]