Title (en)

METHOD AND STRUCTURE FOR THE NEURAL MODELLING OF A DYNAMIC SYSTEM IN A COMPUTER

Title (de)

VERFAHREN UND STRUKTUR ZUR NEURONALEN MODELLIERUNG EINES DYNAMISCHEN SYSTEMS AUF EINEM RECHNER

Title (fr)

PROCEDE ET STRUCTURE POUR LA MODELISATION NEURONALE D'UN SYSTEME DYNAMIQUE DANS UN ORDINATEUR

Publication

EP 0995156 A2 20000426 (DE)

Application

EP 98943653 A 19980708

Priority

- DE 9801887 W 19980708
- DE 19729391 A 19970709

Abstract (en)

[origin: WO9903043A2] The invention relates to a method and a neurone layer structure for the neural modelling of dynamic systems. To this end, parameters describing inertia and parameters describing acceleration of the system's time series are trained and processed separately in the network. The prognostic values thus obtained are combined to give a desired prognostic quantity. Different target quantities in the form of average values with bases of different widths can be obtained by defining different indicators for each dynamic parameter. A greater fault current for returning to the network is generated by training these values. This makes possible exact simulation of the different dynamic parameters. The inventive structure and method are preferably used for stock exchange forecasts and for other dynamic systems.

IPC 1-7

G06F 15/80; G05B 13/02

IPC 8 full level

G06F 15/18 (2006.01); **G06N 3/04** (2006.01); **G06N 3/08** (2006.01)

CPC (source: EP)

G06N 3/045 (2023.01)

Citation (search report)

See references of WO 9903043A2

Cited by

CN110070228A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 9903043 A2 19990121; **WO 9903043 A3 19990401**; EP 0995156 A2 20000426; JP 2001509623 A 20010724

DOCDB simple family (application)

DE 9801887 W 19980708; EP 98943653 A 19980708; JP 2000502460 A 19980708