Title (en)

METHOD FOR CONFIGURING COMPONENTS IN A SYSTEM BY MEANS OF MULTI-AGENT REINFORCEMENT LEARNING, COMPUTER-READABLE STORAGE MEDIUM, AND SYSTEM

Title (de)

VERFAHREN ZUM KONFIGURIEREN VON KOMPONENTEN IN EINEM SYSTEM MIT HILFE VON MULTI-AGENT REINFORCEMENT LEARNING, COMPUTERLESBARES SPEICHERMEDIUM UND SYSTEM

Title (fr)

PROCÉDÉ DE CONFIGURATION DE COMPOSANTS DANS UN SYSTÈME AU MOYEN D'UN APPRENTISSAGE PAR RENFORCEMENT MULTI-AGENT, SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR ET SYSTÈME

Publication

EP 4139849 A1 20230301 (DE)

Application

EP 20735060 A 20200608

Priority

EP 2020065850 W 20200608

Abstract (en)

[origin: WO2021249616A1] Software systems consisting of a plurality of components often require said components to be configured so that said components can perform their task in an optimal manner for a particular application. The invention relates to a method for configuring a software system which consists of a plurality of components. To this end, two different alternatives are provided: a) mode 1, i.e. with offensive training, for quickly learning new situations: the range of values and the step size of the parameters are restricted to such an extent that only non-critical changes are possible with one action. Alternatively, b) mode 2 is used, i.e. defensive training, with continuous learning: the range of values and the step size of the parameters are restricted so that the changes do not significantly worsen the target variables; the Epsilon-Greedy value ε is set to a lower value.

IPC 8 full level

G06N 3/08 (2006.01)

CPC (source: EP US)

G05B 13/0265 (2013.01 - US); **G05B 13/042** (2013.01 - US); **G06N 3/088** (2013.01 - EP)

Citation (search report)

See references of WO 2021249616A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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