

Title (en)
CHARACTERIZING ACTIVITY IN A RECURRENT ARTIFICIAL NEURAL NETWORK AND ENCODING AND DECODING INFORMATION

Title (de)
CHARAKTERISIERUNG VON AKTIVITÄTEN IN EINEM WIEDERKEHRENDEN KÜNSTLICHEN NEURONALEN NETZ SOWIE CODIERUNG UND DECODIERUNG VON INFORMATION

Title (fr)
CARACTÉRISATION DE L'ACTIVITÉ DANS UN RÉSEAU NEURONAL ARTIFICIEL RÉCURRENT ET CODAGE ET DÉCODAGE D'INFORMATIONS

Publication
EP 3803705 A1 20210414 (EN)

Application
EP 19728989 A 20190606

Priority

- US 201816004635 A 20180611
- US 201816004837 A 20180611
- US 201816004796 A 20180611
- US 201816004757 A 20180611
- US 201816004671 A 20180611
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Abstract (en)
[origin: WO2019238523A1] Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for characterizing activity in a recurrent artificial neural network and encoding and decoding information. In one aspect, a method that is implemented by one or more data processing devices can include receiving a training set that includes a plurality of representations of topological structures in patterns of activity in a source neural network and training a neural network using the representations either as an input to the neural network or as a target answer vector. The activity is responsive to an input into the source neural network.

IPC 8 full level
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Cited by
US11569978B2; US11580401B2; US11652603B2; US11816553B2; US11797827B2; US11972343B2; US11615285B2; US11651210B2; US11893471B2

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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EP 2019064776 W 20190606; CN 201980053140 A 20190606; CN 201980053141 A 20190606; CN 201980053463 A 20190606; CN 201980053465 A 20190605; CN 201980054063 A 20190606; EP 19728962 A 20190605; EP 19728989 A 20190606; EP 19728990 A 20190606; EP 19728992 A 20190606; EP 19728993 A 20190606; EP 2019064593 W 20190605; EP 2019064740 W 20190606; EP 2019064741 W 20190606; EP 2019064773 W 20190606; KR 20207035843 A 20190605; KR 20207035844 A 20190606; KR 20207035845 A 20190606; KR 20207035846 A 20190606; KR 20207035847 A 20190606; TW 108119813 A 20190606