

Title (en)

COMPUTER-IMPLEMENTED METHOD FOR ANALOGUE RETRIEVAL OF DOCUMENTS

Title (de)

COMPUTERIMPLEMENTIERTES VERFAHREN ZUM ANALOGEN ABRUFEN VON DOKUMENTEN

Title (fr)

MÉTHODE MISE EN OEUVRE PAR ORDINATEUR POUR LA RECHERCHE ANALOGIQUE DE DOCUMENTS

Publication

**EP 4127965 A1 20230208 (FR)**

Application

**EP 21716109 A 20210325**

Priority

- CH 3642020 A 20200326
- EP 2021057839 W 20210325

Abstract (en)

[origin: WO2021191392A1] The present invention relates to a computer-implemented method for the analogue retrieval of documents comprising at least one piece of textual information from a set of documents E comprised in a first database and whose textual information most closely corresponds to a search term R, comprising the following steps: a. Generating a second database comprising a list of words produced by lemmatisation of the textual information of the documents of the first database; b. Generating a descriptor vector V of numerical values for each document of the first database, using a vectorisation function F for vectorising the textual information; c. Training a self-organising map C comprising a network P of neurons p by projecting the descriptor vectors V onto the self-organising map C, each neuron p of the self-organising map C corresponding to a weight vector W of numerical values; d. Allocating each document of the first database to the neuron p of the self-organising map C whose corresponding weight vector W is the smallest distance from the descriptor vector V of the document to be allocated; e. Generating, using the vectorisation function F and the second database, a search vector K of numerical values for the search term R; f. Determining the neuron p<sub>best</sub> of the self-organising map C whose weight vector W is the smallest distance from the search vector K; and, g. Determining the documents of the first database allocated to the neuron p<sub>best</sub> of the self-organising map C.

IPC 8 full level

**G06F 16/36** (2019.01); **G06F 16/34** (2019.01)

CPC (source: CH EP)

**G06F 16/3347** (2018.12 - CH); **G06F 16/338** (2018.12 - CH); **G06F 16/34** (2018.12 - EP); **G06F 16/36** (2018.12 - EP); **G06F 16/383** (2018.12 - CH); **G06N 3/088** (2013.01 - CH)

Citation (search report)

See references of WO 2021191392A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**CH 717260 A2 20210930**; EP 4127965 A1 20230208; WO 2021191392 A1 20210930

DOCDB simple family (application)

**CH 3642020 A 20200326**; EP 2021057839 W 20210325; EP 21716109 A 20210325