Title (en)

METHOD FOR CLASSIFYING A POLYSOMNOGRAPHY RECORDING INTO DEFINED SLEEP STAGES

Title (de)

VERFAHREN ZUR KLASSIFIZIERUNG EINER POLYSOMNOGRAPHIE-AUFNAHME IN DEFINIERTE SCHLAFSTADIEN

Title (fr)

PROCÉDÉ POUR LA CLASSIFICATION D'UN ENREGISTREMENT DE POLYSOMNOGRAPHIE DANS DES STADES DE SOMMEIL DÉFINIS

Publication

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Application

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Abstract (en)

[origin: WO2020193116A1] The invention relates to a method for classifying a polysomnography recording into defined sleep stages, the method comprising essentially the following steps: dividing the sleep of a person into different identifiable sleep stages; capturing a plurality of pieces of information regarding bodily functions over a specified time period in the form of data, the data comprising at least one data set of a data type of a first nature, by means of which data set the sleep stages can be identified; splitting the captured data into time-dependent data blocks; manually selecting a limited number of training data blocks from the data blocks and associating them with a sleep stage; evaluating the data set of the first nature of each training data block by means of a data-processing method; creating training objects, each training object comprising the evaluated data sets of the first nature of a training data block and the association of the training data block with a sleep stage; transmitting the training objects to a support vector machine for creating a classification; transmitting at least some of the data blocks that were not selected as training data blocks to the support vector machine.

IPC 8 full level

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