**75.EEG Database**

1. 数据库网址

https://archive.ics.uci.edu/ml/datasets/EEG+Database

2. 数据库描述

【1.[数据集名称]数据集由[机构名或人名]采集；】The data used in our experiments were collected by Henri Begleiter, Neurodynamics Laboratory, State University of New York Health Center. 【2.用于[什么实验目的]】We used to classify the single trial EEG which, due to learning effects in humans, is known to be non-stationary.【3】This data arises from a large study to examine EEG correlates of genetic predisposition to alcoholism. It contains measurements from 64 electrodes placed on subject's scalps which were sampled at 256 Hz (3.9-msec epoch) for 1 second. There were two groups of subjects: alcoholic and control. Each subject was exposed to either a single stimulus (S1) or to two stimuli (S1 and S2) which were pictures of objects chosen from the 1980 Snodgrass and Vanderwart picture set. When two stimuli were shown, they were presented in either a matched condition where S1 was identical to S2 or in a non-matched condition where S1 differed from S2. There were 122 subjects and each subject completed 120 trials where different stimuli were shown. There are three versions of the EEG data set, which are the Small Data Set, the Large Data Set, The Full Data Set.【4】The database has 122 samples, respectively belong to training with 100 samples and testing with 22 samples. The categories can be as shown in Table 1.

Table 1 Category Distribution of EEG Dataset [根据数据库绘制]

|  |  |  |  |
| --- | --- | --- | --- |
| Categories | Training | testing | Total Number of Samples |
| Alcoholic | 50 | 11 | 61 |
| Control | 50 | 11 | 61 |
| Total number of samples in total | 100 | 22 | 122 |

3. 精简描述

The Data in our experiment were collected by Henri Begleiter, Neurodynamics Laboratory, State University of New York Health Center. The dataset includes have 122 samples with 4 attributes, which used to classify the single trial EEG which, due to learning effects in humans, is known to be non-stationary. Through which, we divided the dataset into two part, training data set with 100 samples and forecasting data set with 22 samples.