**74.User Knowledge Modeling**

1. 数据库网址

https://archive.ics.uci.edu/ml/datasets/User+Knowledge+Modeling

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 Hamdi Tolga Kahraman, from Faculty of Technology, Department of Software Engineering, Karadeniz Technical University.【2.用于[什么实验目的]】We used to segment the students' knowledge status about the subject of Electrical DC Machines.【3】The database has 6 attributes, such as,STG (The degree of study time for goal object materails), SCG (The degree of repetition number of user for goal object materails) , STR (The degree of study time of user for related objects with goal object), LPR (The exam performance of user for related objects with goal object) , PEG (The exam performance of user for goal objects) , UNS (The knowledge level of user) . 【4】The database has 431 samples, respectively belong to training with 345 samples and testing with 86 samples. The categories can be as shown in Table 1.

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

|  |  |  |  |
| --- | --- | --- | --- |
| Categories | Training | Testing | Total Number of Samples |
| Very Low | 40 | 10 | 50 |
| Low | 103 | 26 | 129 |
| Middle | 98 | 24 | 122 |
| High | 104 | 26 | 130 |
| Total number of samples in total | 345 | 86 | 431 |

3. 精简描述

The Data in our experiment were collected by Hamdi Tolga Kahraman, from Faculty of Technology, Department of Software Engineering, Karadeniz Technical University. The dataset includes have 431 samples, which used to segment the students' knowledge status about the subject of Electrical DC Machines. Through which, we divided the dataset into two part, training data set with 345 samples and forecasting data set with 86 samples.