**108.Synthetic Control Chart Time Series**

1. 数据库网址

http://archive.ics.uci.edu/ml/datasets/Synthetic+Control+Chart+Time+Series

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 E. Alpaydin, C. Kaynak, from Department of Computer Engineering,Bogazici University at July,1998.【2.用于[什么实验目的]】We used preprocessing programs made available by NIST to extract normalized bitmaps of handwritten digits from a preprinted form.【3】

【4】The database has 5620 samples, respectively belong to optdigits.tra with 3823 samples and optidigits.tes with 1797 samples. The categories of network system include seven categories, as shown in Table 1.

Table 1 Category Distribution of Network System [根据数据库绘制]

|  |  |  |  |
| --- | --- | --- | --- |
| Invasion Categories | optdigits.tra | optdigits.tes | Total Number of Samples |
|  |  |  |  |
|  |  |  |  |
| Total number of samples in total |  |  | 600 |

|  |  |
| --- | --- |
| **Abstract**: This data consists of synthetically generated control charts. |  |

**Source:**

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**Data Set Information:**

This dataset contains 600 examples of control charts synthetically generated by the process in Alcock and Manolopoulos (1999). There are six different classes of control charts:   
  
1. Normal   
2. Cyclic   
3. Increasing trend   
4. Decreasing trend   
5. Upward shift   
6. Downward shift   
  
The following image shows ten examples from each class: data.jpeg, where (A) Downward Trend. (B) Cyclic. (C) Normal. (D) Upward Shift. (E) Upward Trend. (F) Downward Shift.

**Attribute Information:**

The data is stored in an ASCII file, 600 rows, 60 columns, with a single chart per line. The classes are organized as follows:   
  
1-100 Normal   
101-200 Cyclic   
201-300 Increasing trend   
301-400 Decreasing trend   
401-500 Upward shift   
501-600 Downward shift

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