**97.Individual household electric power consumption**

1. 数据库网址

http://archive.ics.uci.edu/ml/datasets/Individual+household+electric+power+consumption

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 |  |  | 2075259 |

|  |  |
| --- | --- |
| **Abstract**: Measurements of electric power consumption in one household with a one-minute sampling rate over a period of almost 4 years. Different electrical quantities and some sub-metering values are available. |  |

**Source:**

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**Data Set Information:**

This archive contains 2075259 measurements gathered between December 2006 and November 2010 (47 months).   
Notes:   
1.(global\_active\_power\*1000/60 - sub\_metering\_1 - sub\_metering\_2 - sub\_metering\_3) represents the active energy consumed every minute (in watt hour) in the household by electrical equipment not measured in sub-meterings 1, 2 and 3.   
2.The dataset contains some missing values in the measurements (nearly 1,25% of the rows). All calendar timestamps are present in the dataset but for some timestamps, the measurement values are missing: a missing value is represented by the absence of value between two consecutive semi-colon attribute separators. For instance, the dataset shows missing values on April 28, 2007.

**Attribute Information:**

1.date: Date in format dd/mm/yyyy   
2.time: time in format hh:mm:ss   
3.global\_active\_power: household global minute-averaged active power (in kilowatt)   
4.global\_reactive\_power: household global minute-averaged reactive power (in kilowatt)   
5.voltage: minute-averaged voltage (in volt)   
6.global\_intensity: household global minute-averaged current intensity (in ampere)   
7.sub\_metering\_1: energy sub-metering No. 1 (in watt-hour of active energy). It corresponds to the kitchen, containing mainly a dishwasher, an oven and a microwave (hot plates are not electric but gas powered).   
8.sub\_metering\_2: energy sub-metering No. 2 (in watt-hour of active energy). It corresponds to the laundry room, containing a washing-machine, a tumble-drier, a refrigerator and a light.   
9.sub\_metering\_3: energy sub-metering No. 3 (in watt-hour of active energy). It corresponds to an electric water-heater and an air-conditioner.