**76.Shuttle Landing Control**

1. 数据库网址

http://archive.ics.uci.edu/ml/datasets/Shuttle+Landing+Control

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 |  |  | 15 |

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**Data Set Information:**

This is a tiny database. Michie reports that Burke's group used RULEMASTER to generate comprehendable rules for determining the conditions under which an autolanding would be preferable to manual control of the spacecraft.

**Attribute Information:**

1. Class: noauto, auto   
-- that is, advise using manual/automatic control   
2. STABILITY: stab, xstab   
3. ERROR: XL, LX, MM, SS   
4. SIGN: pp, nn   
5. WIND: head, tail   
6. MAGNITUDE: Low, Medium, Strong, OutOfRange   
7. VISIBILITY: yes, no

5. Number of Instances: 15

6. Number of Attributes: 7 (including the class attribute)

7. Attribute Information:

1. Class: noauto, auto

-- that is, advise using manual/automatic control

2. STABILITY: stab, xstab

3. ERROR: XL, LX, MM, SS

4. SIGN: pp, nn

5. WIND: head, tail

6. MAGNITUDE: Low, Medium, Strong, OutOfRange

7. VISIBILITY: yes, no

8. Missing Attribute Values:

-- none

-- but several "don't care" values: (denoted by "\*")

Attribute Number: Number of Don't Care Values:

2: 2

3: 3

4: 8

5: 8

6: 5

7: 0

9. Class Distribution:

1. Use noauto control: 6

2. Use automatic control: 9