**94.Localization Data for Person Activity**

1. 数据库网址

http://archive.ics.uci.edu/ml/datasets/Localization+Data+for+Person+Activity

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 |  |  | 164860 |

|  |  |
| --- | --- |
| **Abstract**: Data contains recordings of five people performing different activities. Each person wore four sensors (tags) while performing the same scenario five times. |  |

**Source:**

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**Data Set Information:**

People used for recording of the data were wearing four tags (ankle left, ankle right, belt and chest).   
Each instance is a localization data for one of the tags. The tag can be identified by one of the attributes.

**Attribute Information:**

Instance example: A01,020-000-033-111,633790226057226795,27.05.2009 14:03:25:723,4.292500972747803,2.0738532543182373,1.36650812625885,walking   
  
1) Sequence Name {A01,A02,A03,A04,A05,B01,B02,B03,B04,B05,C01,C02,C03,C04,C05,D01,D02,D03,D04,D05,E01,E02,E03,E04,E05} (Nominal)   
- A, B, C, D, E = 5 people   
2) Tag identificator {010-000-024-033,020-000-033-111,020-000-032-221,010-000-030-096} (Nominal)   
- ANKLE\_LEFT = 010-000-024-033   
- ANKLE\_RIGHT = 010-000-030-096   
- CHEST = 020-000-033-111   
- BELT = 020-000-032-221   
3) timestamp (Numeric) all unique   
4) date FORMAT = dd.MM.yyyy HH:mm:ss:SSS (Date)   
5) x coordinate of the tag (Numeric)   
6) y coordinate of the tag (Numeric)   
7) z coordinate of the tag (Numeric)   
8) activity {walking,falling,'lying down',lying,'sitting down',sitting,'standing up from lying','on all fours','sitting on the ground','standing up from sitting','standing up from sitting on the ground'} (Nominal)

5. Number of Instances: 164860

6. Number of Attributes: 8

9. Class Distribution:

CLASS NUMBER OF INSTANCES PER CLASS

- walking 32710

- falling 2973

-'lying down' 6168

- lying 54480

- 'sitting down' 1706

- sitting 27244

- 'standing up from lying' 18361

- 'on all fours' 5210

- 'sitting on the ground' 11779

- 'standing up from sitting' 1381

- 'standing up from sitting on the ground' 2848

