**73.Australian Sign Language signs**

1. 数据库网址

http://archive.ics.uci.edu/ml/datasets/Australian+Sign+Language+signs

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 Mohammed Waleed Kadous, from School of Computer Science of Engineering, University of New South Wales.【2.用于[什么实验目的]】The data is susceptible to occasional "spikes" caused by random ultrasound noise. Median filters have been found to be beneficial in solving this problem.【3】This data consists of sample of Auslan (Australian Sign Language) signs. Examples of 95 signs were collected from five signers with a total of 6650 sign samples. Average number of frames per instance is 51, but varies from 30 to 102. This glove definitely falls into the category of "cheap and nasty". Position information is calculated on the basis of ultrasound emissions from emitters the glove to a 3-microphone "L-Bar" that sits atop a monitor. There are two emitters on the glove; and three receivers. This allows the calculation of 4 pieces of information: x (left/right), y (up/down), z (backward/forward), and roll (is the palm pointing up or down?). x, y and z are measured with 8 bit accuracy. "x, y, z" should not be taken to be the normal 3-dimensional orthogonal basis. In particular, 1 unit in the z direction is not of similar distance to 1 unit in the x or y directions. These x, y, z positions are relative to a calibration point which is when the palm is resting on the seated signer's thigh. Roll is 4 bits.【4】The database has 6650 samples, respectively belong to training with 5320 samples and testing with 1330 samples. The categories can be as shown in Table 1.

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

|  |  |  |  |
| --- | --- | --- | --- |
| Categories | Training | Testing | Total Number of Samples |
| Adam | 608 | 152 | 760 |
| Andrew | 608 | 152 | 760 |
| John | 1368 | 342 | 1710 |
| stephen | 1216 | 304 | 1520 |
| waleed | 1520 | 380 | 1900 |
| Total number of samples in total | 5320 | 1330 | 6650 |

3. 精简描述

The Data in our experiment were collected by Mohammed Waleed Kadous, from School of Computer Science of Engineering, University of New South Wales. The dataset includes have 6650 samples, which used to occasional "spikes" caused by random ultrasound noise. Through which, we divided the dataset into two part, training data set with 5320 samples and forecasting data set with 1330 samples.