Table. Summary of data collection.

|  |  |
| --- | --- |
| Parameter | Value |
| Location | Ankara (capital of Turkey), Isparta |
| Equipment | Raspberry Pi Model B |
| Sensors | MPU6050 (3-axis accelerometer and 3-axis gyroscope) |
| Vehicles | Ford Fiesta 1.4 Diesel Engine, Ford Fiesta 1.25 Gasoline Engine, Hyundai i20 1.2 Gasoline Engine |
| Road condition | Dry asphalt road |
| Weather condition | Sunny |
| Mount point | Onto the center of dashboard with black box’s front face facing upwards. |
| Detection purpose | Risky driving behaviors: Sudden Acceleration (SA), Sudden Deceleration (SD), Sudden Left Turn( SLF), Sudden Right Turn (SRT) |
| Population | 3 male drivers with the ages of 27, 28 and 37 |
| Data collection duration | 2 weeks |
| Vehicle’s speed | 30-40 kmph for sudden lane changes, 70-80 kmph for sudden acceleration and deceleration |

Driver task distribution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Driver (Age)** | **# of SA** | **# of SD** | **# of SRT** | **# of SLT** |
| Driver-1 (26) | 10 | 8 | 9 | 8 |
| Driver-2  (28) | 10 | 10 | 9 | 7 |
| Driver-3  (37) | 8 | 14 | 7 | 9 |
| **Total** | 28 | 32 | 25 | 24 |