**Balance Impairment and Fall-Risk Estimation Dataset:**

**IMPORTANT:** If you use this dataset, please cite the following paper:

Shahzad, A., Ko, S., Lee, S., Lee, J. A., & Kim, K. **(2017)**. Quantitative Assessment of Balance Impairment for Fall-risk Estimation using Wearable Triaxial Accelerometer. ***IEEE Sensors Journal*.**

**Experiment Protocol and Settings:**

**Subjects:** 23 Elderly people

**Activities Performed:**

1) Berg Balance Scale (BBS) - without sensor

2) Directed Routine - with waist mounted triaxial accelerometer sensor

a) Timed up and go test (TUGT)

b) Five times sit to stand test (FTSS)

c) Alternate step test (AST)

Each subject performed DR tasks twice (2 trials of each test that means 6 data files for each subject).

**Sensor:** Accel (+/- 1.5g ) - Shimmer 2R.

**Position:** Waist(Lower back)

**Sampling rate:** 41 Hz

For subjects details please see the excel file **“Subjects\_Details.xlsx”**

To visualize / plot the data files, please check the MATLAB code **“data\_visualize.m”**

To download the dataset, please click below and provide the following information:

1. Name of Researcher:
2. Name of Principal Investigator (PI):
3. Affiliation:
4. Research Summary (1 or 2 lines):

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