

DATA DICTIONARY - MODIFIED HUMAN ACTIVITY RECOGNITION USING SMARTPHONES DATA SET

Subject

Participant number ranging from 1 to 30.

Activity

Describes the movements the participant made. Six possible activity types:

- 1) LAYING
- 2) SITTING
- 3) STANDING
- 4) WALKING
- 5) WALKING_DOWNSTAIRS
- 6) WALKING_UPSTAIRS

Signal

66 signals subsetted from the original data set in total, including mean and standard deviation for each feature. These signals were used to estimate variables of the feature vector for each pattern. '-XYZ' is used to denote 3-axial signals in the X, Y, and Z directions.

tBodyAcc-XYZ
tGravityAcc-XYZ
tBodyAccJerk-XYZ
tBodyGyro-XYZ
tBodyGyroJerk-XYZ
tBodyAccMag
tGravityAccMag
tBodyAccJerkMag
tBodyGyroMag
tBodyGyroJerkMag
fBodyAcc-XYZ
fBodyAccJerk-XYZ
fBodyGyro-XYZ
fBodyAccMag
fBodyAccJerkMag
fBodyGyroMag
fBodyGyroJerkMag

The set of variables that were estimated from these signals are:

mean(): Mean value
std(): Standard deviation

For more information about data collection and preprocessing, please see original work:

Davide Anguita, Alessandro Ghio, Luca Oneto, Xavier Parra and Jorge L. Reyes-Ortiz. A Public Domain Dataset for Human Activity Recognition Using Smartphones. 21th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, ESANN 2013. Bruges, Belgium 24-26 April 2013.