Data Dictionary – featureMean.txt

Subject: The subject no. of the 30 volunteers participated in the experiment. (range: 1-30)

Activity: One of the six activities performed by the subject. The six activities are:

- WALKING,
- WALKING_UPSTAIRS,
- WALKING_DOWNSTAIRS,
- SITTING,
- STANDING,
- LAYING

tBodyAcc-mean-X :

- The mean of all the normalized mean values of the body acceleration time domain signals in X-axial direction of the subject in performing the activity.

tBodyAcc-mean-Y

- The mean of all the normalized mean values of the body acceleration time domain signals in Y-axial direction of the subject in performing the activity.

tBodyAcc-mean-Z

- The mean of all the normalized mean values of the body acceleration time domain signals in Z-axial direction of the subject in performing the activity.

tBodyAcc-std-X

- The mean of all the normalized standard deviation values of the body acceleration time domain signals in X-axial direction of the subject in performing the activity.

tBodyAcc-std-Y

- The mean of all the normalized standard deviation values of the body acceleration time domain signals in Y-axial direction of the subject in performing the activity.

tBodyAcc-std-Z

- The mean of all the normalized standard deviation values of the body acceleration time domain signals in Z-axial direction of the subject in performing the activity.

tGravityAcc-mean-X

- The mean of all the normalized mean values of the gravity acceleration time domain signals in X-axial direction of the subject in performing the activity.

tGravityAcc-mean-Y

- The mean of all the normalized mean values of the gravity acceleration time domain signals in Y-axial direction of the subject in performing the activity.

tGravityAcc-mean-Z

- The mean of all the normalized mean values of the gravity acceleration time domain signals in Z-axial direction of the subject in performing the activity.

tGravityAcc-std-X

- The mean of all the normalized standard deviation values of the gravity acceleration time domain signals in X-axial direction of the subject in performing the activity.

tGravityAcc-std-Y

- The mean of all the normalized standard deviation values of the gravity acceleration time

domain signals in Y-axial direction of the subject in performing the activity.

tGravityAcc-std-Z

- The mean of all the normalized standard deviation values of the gravity acceleration time domain signals in Z-axial direction of the subject in performing the activity.

tBodyAccJerk-mean-X

- The mean of all the normalized mean values of the body acceleration jerk time domain signals in X-axial direction of the subject in performing the activity.

tBodyAccJerk-mean-Y

- The mean of all the normalized mean values of the body acceleration jerk time domain signals in Y-axial direction of the subject in performing the activity.

tBodyAccJerk-mean-Z

- The mean of all the normalized mean values of the body acceleration jerk time domain signals in Z-axial direction of the subject in performing the activity.

tBodyAccJerk-std-X

- The mean of all the normalized standard deviation values of the body acceleration jerk time domain signals in X-axial direction of the subject in performing the activity.

tBodyAccJerk-std-Y

- The mean of all the normalized standard deviation values of the body acceleration jerk time domain signals in Y-axial direction of the subject in performing the activity.

tBodyAccJerk-std-Z

- The mean of all the normalized standard deviation values of the body acceleration jerk time domain signals in Z-axial direction of the subject in performing the activity.

tBodyGyro-mean-X

- The mean of all the normalized mean values of the body angular velocity time domain signals in X-axial direction of the subject in performing the activity.

tBodyGyro-mean-Y

- The mean of all the normalized mean values of the body angular velocity time domain signals in Y-axial direction of the subject in performing the activity.

tBodyGyro-mean-Z

- The mean of all the normalized mean values of the body angular velocity time domain signals in Z-axial direction of the subject in performing the activity.

tBodyGyro-std-X

- The mean of all the normalized standard deviation values of the body angular velocity time domain signals in X-axial direction of the subject in performing the activity.

tBodyGyro-std-Y

- The mean of all the normalized standard deviation values of the body angular velocity time domain signals in Y-axial direction of the subject in performing the activity.

tBodyGyro-std-Z

- The mean of all the normalized standard deviation values of the body angular velocity time domain signals in Y-axial direction of the subject in performing the activity.

tBodyGyroJerk-mean-X

- The mean of all the normalized mean values of the body angular velocity jerk time domain signals in X-axial direction of the subject in performing the activity.

tBodyGyroJerk-mean-Y

- The mean of all the normalized mean values of the body angular velocity jerk time domain signals in Y-axial direction of the subject in performing the activity.

tBodyGyroJerk-mean-Z

- The mean of all the normalized mean values of the body angular velocity jerk time domain signals in Z-axial direction of the subject in performing the activity.

tBodyGyroJerk-std-X

- The mean of all the normalized standard deviation values of the body angular velocity jerk time domain signals in X-axial direction of the subject in performing the activity.

tBodyGyroJerk-std-Y

- The mean of all the normalized standard deviation values of the body angular velocity jerk time domain signals in Y-axial direction of the subject in performing the activity.

tBodyGyroJerk-std-Z

- The mean of all the normalized standard deviation values of the body angular velocity jerk time domain signals in Z-axial direction of the subject in performing the activity.

tBodyAccMag-mean

- The mean of all the normalized mean values of the magnitude of body acceleration time domain signals of the subject in performing the activity.

tBodyAccMag-std

- The mean of all the normalized standard deviation values of the magnitude of body acceleration time domain signals of the subject in performing the activity.

tGravityAccMag-mean

- The mean of all the normalized mean values of the magnitude of gravity acceleration time domain signals of the subject in performing the activity.

tGravityAccMag-std

- The mean of all the normalized standard deviation values of the magnitude of gravity acceleration time domain signals of the subject in performing the activity.

tBodyAccJerkMag-mean

- The mean of all the normalized mean values of the magnitude of body acceleration jerk time domain signals of the subject in performing the activity.

tBodyAccJerkMag-std

- The mean of all the normalized standard deviation values of the magnitude of body acceleration jerk time domain signals of the subject in performing the activity.

tBodyGyroMag-mean

- The mean of all the normalized mean values of the magnitude of body angular velocity time domain signals of the subject in performing the activity.

tBodyGyroMag-std

- The mean of all the normalized standard deviation values of the magnitude of body angular velocity time domain signals of the subject in performing the activity.

tBodyGyroJerkMag-mean

- The mean of all the normalized mean values of the magnitude of body angular velocity jerk time domain signals of the subject in performing the activity.

tBodyGyroJerkMag-std

- The mean of all the normalized standard deviation values of the magnitude of body angular velocity jerk time domain signals of the subject in performing the activity.

fBodyAcc-mean-X

- The mean of all the normalized mean of the FFT values of the body acceleration signals in X-axial direction of the subject in performing the activity.

fBodyAcc-mean-Y

- The mean of all the normalized mean of the FFT values of the body acceleration signals in Y-axial direction of the subject in performing the activity.

fBodyAcc-mean-Z

- The mean of all the normalized mean of the FFT values of the body acceleration signals in Z-axial direction of the subject in performing the activity.

fBodyAcc-std-X

- The mean of all the normalized standard deviation of the FFT values of the body acceleration signals in X-axial direction of the subject in performing the activity.

fBodyAcc-std-Y

- The mean of all the normalized standard deviation of the FFT values of the body acceleration signals in Y-axial direction of the subject in performing the activity.

fBodyAcc-std-Z

- The mean of all the normalized standard deviation of the FFT values of the body acceleration signals in Z-axial direction of the subject in performing the activity.

fBodyAccJerk-mean-X

- The mean of all the normalized mean of the FFT values of the body acceleration jerk signals in X-axial direction of the subject in performing the activity.

fBodyAccJerk-mean-Y

- The mean of all the normalized mean of the FFT values of the body acceleration jerk signals in Y-axial direction of the subject in performing the activity.

fBodyAccJerk-mean-Z

- The mean of all the normalized mean of the FFT values of the body acceleration jerk signals in Z-axial direction of the subject in performing the activity.

fBodyAccJerk-std-X

- The mean of all the normalized standard deviation of the FFT values of the body acceleration jerk signals in X-axial direction of the subject in performing the activity.

fBodyAccJerk-std-Y

- The mean of all the normalized standard deviation of the FFT values of the body acceleration jerk signals in Y-axial direction of the subject in performing the activity.

fBodyAccJerk-std-Z

- The mean of all the normalized standard deviation of the FFT values of the body acceleration jerk signals in Z-axial direction of the subject in performing the activity.

fBodyGyro-mean-X

- The mean of all the normalized mean of the FFT values of the body angular velocity signals in X-axial direction of the subject in performing the activity.

fBodyGyro-mean-Y

- The mean of all the normalized mean of the FFT values of the body angular velocity signals in Y-axial direction of the subject in performing the activity.

fBodyGyro-mean-Z

- The mean of all the normalized mean of the FFT values of the body angular velocity signals

in Z-axial direction of the subject in performing the activity.

fBodyGyro-std-X

- The mean of all the normalized standard deviation of the FFT values of the body angular velocity signals in X-axial direction of the subject in performing the activity.

fBodyGyro-std-Y

- The mean of all the normalized standard deviation of the FFT values of the body angular velocity signals in Y-axial direction of the subject in performing the activity.

fBodyGyro-std-Z

- The mean of all the normalized standard deviation of the FFT values of the body angular velocity signals in Z-axial direction of the subject in performing the activity.

fBodyAccMag-mean

- The mean of all the normalized mean of the FFT magnitude values of the body acceleration signals of the subject in performing the activity.

fBodyAccMag-std

- The mean of all the normalized standard deviation of the FFT magnitude values of the body acceleration signals of the subject in performing the activity.

fBodyBodyAccJerkMag-mean

- The mean of all the normalized mean of the FFT magnitude values of the body acceleration jerk signals of the subject in performing the activity.

fBodyBodyAccJerkMag-std

- The mean of all the normalized standard deviation of the FFT magnitude values of the body acceleration jerk signals of the subject in performing the activity.

fBodyBodyGyroMag-mean

- The mean of all the normalized mean of the FFT magnitude values of the body angular velocity signals of the subject in performing the activity.

fBodyBodyGyroMag-std

- The mean of all the normalized standard deviation of the FFT magnitude values of the body angular velocity signals of the subject in performing the activity.

fBodyBodyGyroJerkMag-mean

- The mean of all the normalized mean of the FFT magnitude values of the body angular velocity jerk signals of the subject in performing the activity.

fBodyBodyGyroJerkMag-std

- The mean of all the normalized standard deviation of the FFT magnitude values of the body angular velocity jerk signals of the subject in performing the activity.