DATA DICTIONARY

2012 Human Activity Using Smartphones Data Set

Subjectnumber

Number assigned to each of 30 volunteers. (1-30)

Activity

Activity volunteer is performing (WALKING, WALKING_UPSTAIRS, WALKING DOWNSTAIRS, SITTING, STANDING, LAYING)

tBodyAcc-mean()-X

Average body acceleration in the X plane

tBodyAcc-mean()-Y

Average body acceleration in the Y plane

tBodyAcc-mean()-Z

Average body acceleration in the Z plane

tBodyAcc-std()-X

Average of the standard deviation of body acceleration in the ${\tt X}$ plane.

tBodyAcc-std()-Y

Average of the standard deviation of body acceleration in the Y plane.

tBodyAcc-std()-Z

Average of the standard deviation of body acceleration in the Z plane.

tGravityAcc-mean()-X

Average of the static(gravity acceleration) in the X plane

tGravityAcc-mean()-Y

Average of the static(gravity acceleration) in the Y plane

tGravityAcc-mean()-Z

Average of the static(gravity acceleration) in the Z plane

tGravityAcc-std()-X

Average of the standard deviation of the static(gravity acceleration) in the X plane

tGravityAcc-std()-Y

Average of the standard deviation of the static(gravity acceleration) in the Y plane

tGravityAcc-std()-Z

Average of the standard deviation of the static(gravity acceleration) in the Z plane

tBodyAccJerk-mean()-X

Average of the rate of change of acceleration in the X plane tBodyAccJerk-mean()-Y

Average of the rate of change of acceleration in the Y plane tBodyAccJerk-mean()-Z

Average of the rate of change of acceleration in the Z plane

tBodyAccJerk-std()-X

Average of the standard deviation of the rate of change of acceleration in the X plane

tBodyAccJerk-std()-Y

Average of the standard deviation of the rate of change of acceleration in the Y plane

tBodyAccJerk-std()-Z

Average of the standard deviation of the rate of change of acceleration in the X plane

tBodyGyro-mean()-X

Average gyroscope value in the X plane

tBodyGyro-mean()-Y

Average gyroscope value in the Y plane

tBodyGyro-mean()-Z

Average gyroscope value in the Z plane

tBodyGyro-std()-X

Average of the standard deviation of the gyroscope value in the X plane

tBodyGyro-std()-Y

Average of the standard deviation of the gyroscope value in the Y plane

tBodyGyro-std()-Z

Average of the standard deviation of the gyroscope value in the Z plane

tBodyGyroJerk-mean()-X

Average of the rate of change of the gyroscope value in the X plane

tBodyGyroJerk-mean()-Y

Average of the rate of change of the gyroscope value in the Y plane

tBodyGyroJerk-mean()-Z

Average of the rate of change of the gyroscope value in the ${\tt Z}$ plane

tBodyGyroJerk-std()-X

Average of the standard deviation of the rate of change of the gyroscope value in the X plane

tBodyGyroJerk-std()-Y

Average of the standard deviation of the rate of change of the gyroscope value in the Y plane

tBodyGyroJerk-std()-Z

Average of the standard deviation of the rate of change of the gyroscope value in the Z plane

tBodyAccMag-mean()

Average of the magnitude of the acceleration

tBodyAccMag-std()

Average of the standard deviation of the magnitude of the acceleration

tGravityAccMag-mean()

Average of the magnitude of the gravity acceleration

tGravityAccMag-std()

Average of the standard deviation of the gravity acceleration

tBodyAccJerkMag-mean()

Average of the magnitude of the rate of acceleration change

tBodyAccJerkMag-std()

Average of the standard deviation of the magnitude of the rate of acceleration change

tBodyGyroMag-mean()

Average of the magnitude of the gyroscope

tBodyGyroMag-std()

Average of the standard deviation of the magnitude of the gyroscope

tBodyGyroJerkMag-mean()

Average of the magnitude of the rate of change of the gyroscope tBodyGyroJerkMag-std()

Average of the standard deviation of the magnitude of the rate of change of the gyroscope

fBodyAcc-mean()-X

Average body acceleration in the X plane, uses FFT series

fBodyAcc-mean()-Y

Average body acceleration in the Y plane, uses FFT series

fBodyAcc-mean()-Z

Average body acceleration in the Z plane uses FFT series

fBodyAcc-std()-X

Average of the standard deviation of body acceleration in the X plane. uses FFT series

fBodyAcc-std()-Y

Average of the standard deviation of body acceleration in the Y plane. uses FFT series

fBodyAcc-std()-Z

Average of the standard deviation of body acceleration in the ${\tt Z}$ plane. uses FFT series

fBodyAcc-meanFreq()-X

Average of the frequency of the acceleration. X axis. Uses FFT series

fBodyAcc-meanFreq()-Y

Average of the frequency of the acceleration. Y axis. Uses FFT series

fBodyAcc-meanFreq()-Z

Average of the frequency of the acceleration. Z axis. Uses FFT series

fBodyAccJerk-mean()-X

Average of the rate of change of acceleration in the X plane Uses FFT series

fBodyAccJerk-mean()-Y

Average of the rate of change of acceleration in the Y plane Uses FFT series

fBodyAccJerk-mean()-Z

Average of the rate of change of acceleration in the Z plane Uses FFT series

fBodyAccJerk-std()-X

Average of the standard deviation of the rate of change of acceleration in the X plane. Uses FFT series

fBodyAccJerk-std()-Y

Average of the standard deviation of the rate of change of acceleration in the Y plane. Uses FFT series

fBodyAccJerk-std()-Z

Average of the standard deviation of the rate of change of acceleration in the X plane. Uses FFT series

fBodyAccJerk-meanFreq()-X

Average of the rate of change of acceleration in the X plane. Uses FFT series

fBodyAccJerk-meanFreq()-Y

Average of the rate of change of acceleration in the Y plane. Uses FFT series

fBodyAccJerk-meanFreq()-Z

Average of the rate of change of acceleration in the Z plane. Uses FFT series

fBodyGyro-mean()-X

Average gyroscope value in the X plane. Uses FFT series

fBodyGyro-mean()-Y

Average gyroscope value in the Y plane. Uses FFT series

fBodyGyro-mean()-Z

Average gyroscope value in the Z plane. Uses FFT series

fBodyGyro-std()-X

Average of the standard deviation of the gyroscope value in the ${\tt X}$ plane. Uses FFT series

fBodyGyro-std()-Y

Average of the standard deviation of the gyroscope value in the ${\tt Y}$ plane. Uses FFT series

fBodyGyro-std()-Z

Average of the standard deviation of the gyroscope value in the ${\bf Z}$ plane. Uses FFT series

fBodyGyro-meanFreq()-X

Average of the Frequency in the X axis. Uses FFT series.

fBodyGyro-meanFreq()-Y

Average of the Frequency in the Y axis. Uses FFT series.

fBodyGyro-meanFreq()-Z

Average of the Frequency in the Z axis. Uses FFT series.

fBodyAccMag-mean()

Average of the magnitude of the acceleration. Uses FFT series.

fBodyAccMag-std()

Average of the standard deviation of the magnitude of the acceleration. Uses FFT series.

fBodyAccMag-meanFreq()

Average of the magnitude of the acceleration. Uses FFT series

fBodyBodyAccJerkMag-mean()

Average of the magnitude of the rate of change of acceleration. Uses FFT series

fBodyBodyAccJerkMag-meanFreq()

Average of the magnitude of the rate of acceleration change. Uses FFT series.

fBodyBodyAccJerkMag-std()

Average of the standard deviation of the magnitude of the rate of acceleration change. Uses FFT series.

fBodyBodyGyroMag-mean()

Average of the magnitude of the gyroscope value. Uses FFT series.

fBodyBodyGyroMag-std()

Average of the standard deviation of the gyroscope value. Uses FFT series.

fBodyBodyGyroMag-meanFreq()

Average of the frequency of gyroscope data. Uses FFT series.

fBodyBodyGyroJerkMag-mean()

Average of the magnitude of the change of the gyroscope value. Uses FFT series.

fBodyBodyGyroJerkMag-std()

Average of the magnitude of the standard deviation of the change of the gyroscope value. Uses FFT series.

fBodyBodyGyroJerkMag-meanFreq()

Average of the magnitude of the change in acceleration frequency data. Uses FFT series.