Data Dictionary - Human Activity Recognition Using Smartphones

subject 1/2

Human participant of the experiment wearing the smartphone. There are a total of 30 subjects and each identified by a number from 1 to 30.

tBodyAccMean_X

Time domain mean of the X component of the body acceleration measure

tBodyAccMean_Y

Time domain mean of the Y component of the body acceleration measure

tBodyAccMean_Z

Time domain mean of the Z component of the body acceleration measure

tGravityAccMean_X

Time domain mean of the X component of the gravity acceleration measure

tGravityAccMean_Y

Time domain mean of the Y component of the gravity acceleration measure

tGravityAccMean_Z

Time domain mean of the Z component of the gravity acceleration measure

tBodyAccJerkMean_X

Time domain mean of the X component of the body jerk acceleration measure

tBodyAccJerkMean_Y

Time domain mean of the Y component of the body jerk acceleration measure

tBodyAccJerkMean_Z

Time domain mean of the Z component of the body jerk acceleration measure

tBodyGyroMean_X

Time domain mean of the X component of the body rotation from the gyroscope measure

tBodyGyroMean_Y

Time domain mean of the Y component of the body rotation from the gyroscope measure

tBodyGyroMean_Z

Time domain mean of the Z component of the body rotation from the gyroscope measure

tBodyGyroJerkMean_X

Time domain mean of the X component of the body rotational jerk from the gyroscope measure

tBodyGyroJerkMean_Y

Time domain mean of the Y component of the body rotational jerk from the gyroscope measure

tBodyGyroJerkMean_Z

Time domain mean of the Z component of the body rotational jerk from the gyroscope measure

tBodyAccMagMean

Time domain mean magnitude of the body acceleration measure

tGravityAccMagMean

Time domain mean magnitude of the gravity acceleration measure

tBodyAccJerkMagMean

Time domain mean magnitude of the body jerk acceleration measure

tBodyGyroMagMean

Time domain mean magnitude of the body acceleration from the gyroscope measure

tBodyGyroJerkMagMean

Time domain mean magnitude of the body jerk acceleration from the gyroscope measure

fBodyAccMean_X

Frequency domain mean of the X component of the body acceleration measure

fBodyAccMean_Y

Frequency domain mean of the Y component of the body acceleration measure

fBodyAccMean_Z

Frequency domain mean of the Z component of the body acceleration measure

fBodyAccJerkMean_X

Frequency domain mean of the X component of the body jerk acceleration measure

fBodyAccJerkMean_Y

Frequency domain mean of the Y component of the body jerk acceleration measure

fBodyAccJerkMean_Z

Frequency domain mean of the Z component of the body jerk acceleration measure

fBodyGyroMean_X

Frequency domain mean of the X component of the body rotation from the gyroscope measure

fBodyGyroMean_Y

Frequency domain mean of the Y component of the body rotation from the gyroscope measure

fBodyGyroMean_Z

Frequency domain mean of the Z component of the body rotation from the gyroscope measure

fBodyAccMagMean

Frequency domain mean magnitude of the body acceleration measure

fBodyBodyAccJerkMagMean

Frequency domain mean magnitude of the body jerk acceleration measure

fBodyBodyGyroMagMean

Frequency domain mean magnitude of the body acceleration from the gyroscope measure

fBodyBodyGyroJerkMagMean

Frequency domain mean magnitude of the body jerk acceleration from the gyroscope measure

tBodyAccStd_X

Time domain standard deviation of the X component of the body acceleration measure

tBodyAccStd_Y

Time domain standard deviation of the Y component of the body acceleration measure

tBodyAccStd_Z

Time domain standard deviation of the Z component of the body acceleration measure

tGravityAccStd_X

Time domain standard deviation of the X component of the gravity acceleration measure

tGravityAccStd_Y

Time domain standard deviation of the Y component of the gravity acceleration measure

tGravityAccStd_Z

Time domain standard deviation of the Z component of the gravity acceleration measure

tBodyAccJerkStd_X

Time domain standard deviation of the X component of the body jerk acceleration measure

tBodyAccJerkStd_Y

Time domain standard deviation of the Y component of the body jerk acceleration measure

tBodyAccJerkStd_Z

Time domain standard deviation of the Z component of the body jerk acceleration measure

tBodyGyroStd_X

Time domain standard deviation of the X component of the body rotation from the gyroscope measure

tBodyGyroStd_Y

Time domain standard deviation of the Y component of the body rotation from the gyroscope measure

tBodyGyroStd_Z

Time domain standard deviation of the Z component of the body rotation from the gyroscope measure

tBodyGyroJerkStd_X

Time domain standard deviation of the X component of the body rotational jerk from the gyroscope measure

tBodyGyroJerkStd_Y

Time domain standard deviation of the Y component of the body rotational jerk from the gyroscope measure

tBodyGyroJerkStd_Z

Time domain standard deviation of the Z component of the body rotational jerk from the gyroscope measure

tBodyAccMagStd

Time domain standard deviation magnitude of the body acceleration measure

tGravityAccMagStd

Time domain standard deviation magnitude of the gravity acceleration measure

tBodyAccJerkMagStd

Time domain standard deviation magnitude of the body jerk acceleration measure

tBodyGyroMagStd

Time domain standard deviation magnitude of the body acceleration from the gyroscope measure

tBodyGyroJerkMagStd

Time domain standard deviation magnitude of the body jerk acceleration from the gyroscope measure

fBodyAccStd_X

Frequency domain standard deviation of the X component of the body acceleration measure

fBodyAccStd_Y

Frequency domain standard deviation of the Y component of the body acceleration measure

fBodyAccStd_Z

Frequency domain standard deviation of the Z component of the body acceleration measure

fBodyAccJerkStd_X

Frequency domain standard deviation of the X component of the body jerk acceleration measure

fBodyAccJerkStd_Y

Frequency domain standard deviation of the Y component of the body jerk acceleration measure

fBodyAccJerkStd_Z

Frequency domain standard deviation of the Z component of the body jerk acceleration measure

fBodyGyroStd_X

Frequency domain standard deviation of the X component of the body rotation from the gyroscope measure

fBodyGyroStd_Y

Frequency domain standard deviation of the Y component of the body rotation from the gyroscope measure

fBodyGyroStd_Z

Frequency domain standard deviation of the Z component of the body rotation from the gyroscope measure

fBodyAccMagStd

Frequency domain standard deviation magnitude of the body acceleration measure

fBodyBodyAccJerkMagStd

Frequency domain standard deviation magnitude of the body jerk acceleration measure

fBodyBodyGyroMagStd

Frequency domain standard deviation magnitude of the body acceleration from the gyroscope measure

fBodyBodyGyroJerkMagStd

Frequency domain standard deviation magnitude of the body jerk acceleration from the gyroscope measure

activity_label

The label of the identified activity

WALKING
WALKING_UPSTAIRS
WALKING_DOWNSTAIRS
SITTING
STANDING
LAYING