Human Activity Recognition Using Smartphones Tidy Data Set

activity
- activity label:
- WAlKING
  - using smartphone while walking
- WALKING_UPSTAIRS
  - using smartphone while while walking upstairs
- WALKING_DOWNSTAIRS
  - using smartphone while walking downstairs
- SITTING
  - using smartphone while sitting
- STANDING
  - using smartphone while standing
- LAYING
  - using smartphone while laying

subject
- Range from 1 to 30

tBodyAcc-mean()-X
- Mean value of time to obtain body accelerometer X-axial signal

tBodyAcc-mean()-Y
- Mean value of time to obtain body accelerometer Y-axial signal

tBodyAcc-mean()-Z
- Mean value of time to obtain body accelerometer Z-axial signal

tBodyAcc-std()-X
- Standard deviation of time to obtain body accelerometer X-axial signal

tBodyAcc-std()-Y
- Standard deviation of time to obtain body accelerometer Y-axial signal

tBodyAcc-std()-Z
- Standard deviation of time to obtain body accelerometer Z-axial signal

tGravityAcc-mean()-X
- Mean value of time to obtain gravity accelerometer X-axial signal

tGravityAcc-mean()-Y
- Mean value of time to obtain gravity accelerometer Y-axial signal

tGravityAcc-mean()-Z
- Mean value of time to obtain gravity accelerometer Z-axial signal

tGravityAcc-std()-X
- Standard deviation of time to obtain body accelerometer X-axial signal

tGravityAcc-std()-Y
: Standard deviation of time to obtain body accelerometer Y-axial signal

tGravityAcc-std()-Z
: Standard deviation of time to obtain body accelerometer X-axial signal

tBodyAccJerk-mean()-X
: Mean value of time to obtain body accelerometer X-axial Jerk signal

tBodyAccJerk-mean()-Y
: Mean value of time to obtain body accelerometer Y-axial Jerk signal

tBodyAccJerk-mean()-Z
: Mean value of time to obtain body accelerometer Z-axial Jerk signal

tBodyAccJerk-std()-X
: Standard deviation of time to obtain body accelerometer X-axial Jerk signal

tBodyAccJerk-std()-Y
: Standard deviation of time to obtain body accelerometer Y-axial Jerk signal

tBodyAccJerk-std()-Z
: Standard deviation of time to obtain body accelerometer Z-axial Jerk signal

tBodyGyro-mean()-X
: Mean value of time to obtain body gyroscope X-axial signal

tBodyGyro-mean()-Y
: Mean value of time to obtain body gyroscope Y-axial signal

tBodyGyro-mean()-Z
: Mean value of time to obtain body gyroscope Z-axial signal

tBodyGyro-std()-X
: Standard deviation of time to obtain body gyroscope X-axial signal

tBodyGyro-std()-Y
: Standard deviation of time to obtain body gyroscope Y-axial signal

tBodyGyro-std()-Z
: Standard deviation of time to obtain body gyroscope Z-axial signal

tBodyGyroJerk-mean()-X
: Mean value of time to obtain body gyroscope X-axial Jerk signal

tBodyGyroJerk-mean()-Y
: Mean value of time to obtain body gyroscope Y-axial Jerk signal

tBodyGyroJerk-mean()-Z
: Mean value of time to obtain body gyroscope Z-axial Jerk signal

tBodyGyroJerk-std()-X
: Standard deviation of time to obtain body gyroscope X-axial Jerk signal

tBodyGyroJerk-std()-Y
: Standard deviation of time to obtain body gyroscope Y-axial Jerk signal

tBodyGyroJerk-std()-Z
: Standard deviation of time to obtain body gyroscope Z-axial Jerk signal

tBodyAccMag-mean()
: Mean value of magnitude of time to obtain body accelerometer signal

tBodyAccMag-std()
: Standard deviation of magnitude of time to obtain body accelerometer signal

tGravityAccMag-mean()
: Mean value of magnitude of time to obtain gravity accelerometer signal

tGravityAccMag-std()
: Standard deviation of magnitude of time to obtain gravity accelerometer signal

tBodyAccJerkMag-mean()
: Mean value of magnitude of time to obtain body accelerometer jerk signal

tBodyAccJerkMag-std()
: Standard deviation of magnitude of time to obtain body accelerometer jerk signal

tBodyGyroMag-mean()
: Mean value of magnitude of time to obtain body gyroscope signal

tBodyGyroMag-std()
: Standard deviation of magnitude of time to obtain body gyroscope signal

tBodyGyroJerkMag-mean()
: Mean value of time to obtain body gyroscope -axial signal

tBodyGyroJerkMag-std()
: Standard deviation of time to obtain body gyroscope Z-axial Jerk signal

fBodyAcc-mean()-X
: Mean value of body accelerometer X-axial frequency domain signal

fBodyAcc-mean()-Y
: Mean value of body accelerometer Y-axial frequency domain signal

fBodyAcc-mean()-Z
: Mean value of body accelerometer Z-axial frequency domain signal

fBodyAcc-std()-X
: Standard deviation of body accelerometer X-axial frequency domain signal

fBodyAcc-std()-Y
: Standard deviation of body accelerometer Y-axial frequency domain signal

fBodyAcc-std()-Z
: Standard deviation of body accelerometer Z-axial frequency domain signal

fBodyAccJerk-mean()-X
: Mean value of body accelerometer X-axial jerk frequency domain signal

fBodyAccJerk-mean()-Y
: Mean value of body accelerometer Y-axial jerk frequency domain signal

fBodyAccJerk-mean()-Z
: Mean value of body accelerometer Z-axial jerk frequency domain signal

fBodyAccJerk-std()-X
: Standard deviation of body accelerometer X-axial jerk frequency domain signal

fBodyAccJerk-std()-Y
: Standard deviation of body accelerometer Y-axial jerk frequency domain signal

fBodyAccJerk-std()-Z
: Standard deviation of body accelerometer Z-axial jerk frequency domain signal

fBodyGyro-mean()-X
: Mean value of body gyroscope X-axial frequency domain signal

fBodyGyro-mean()-Y
: Mean value of body gyroscope Y-axial frequency domain signal

fBodyGyro-mean()-Z
: Mean value of body gyroscope Z-axial frequency domain signal

fBodyGyro-std()-X
: Standard deviation of body gyroscope X-axial frequency domain signal

fBodyGyro-std()-Y
: Standard deviation of body gyroscope Y-axial frequency domain signal

fBodyGyro-std()-Z
: Standard deviation of body gyroscope Z-axial frequency domain signal

fBodyAccMag-mean()
: Mean value of magnitude of body accelerometer frequency domain signal

fBodyAccMag-std()
: Standard deviation of magnitude of body accelerometer frequency domain signal

fBodyBodyAccJerkMag-mean()
: Mean value of magnitude of body accelerometer jerk frequency domain signal

fBodyBodyAccJerkMag-std()
: Standard deviation of magnitude of body accelerometer jerk frequency domain signal

fBodyBodyGyroMag-mean()
: Mean value of magnitude of body gyroscope frequency domain signal

fBodyBodyGyroMag-std()
: Standard deviation of magnitude of body gyroscope frequency domain signal

fBodyBodyGyroJerkMag-mean()
: Mean value of magnitude of body gyroscope jerk frequency domain signal

fBodyBodyGyroJerkMag-std()
: Standard deviation of magnitude of body gyroscope jerk frequency domain signal