

Human Activity Recognition Data Set Summarized

Code Book

Brief:

The dimensions of the data set are 180 rows by 81 columns. The first two columns represent the activity name and the id of the subject performing the activity. The rest of the columns are the selected features calculating either mean or standard deviation.

Columns' description:

"activity_name"

Name of the activity performed by the subject. There are six different activities. Possible values are:

WALKING
WALKING_UPSTAIRS
WALKING_DOWNSTAIRS
SITTING
STANDING
LAYING

"subject_id"

An identification number which is unique for each subject performing the experiment. There are 30 subject, possible values for this column are from 1 to 30.

"tBodyAcc.mean...X"

"tBodyAcc.mean...Y"

"tBodyAcc.mean...Z"

"tBodyAcc.std...X"

"tBodyAcc.std...Y"

"tBodyAcc.std...Z"

"tGravityAcc.mean...X"

"tGravityAcc.mean...Y"

"tGravityAcc.mean...Z"

"tGravityAcc.std...X"

"tGravityAcc.std...Y"

"tGravityAcc.std...Z"

"tBodyAccJerk.mean...X"

"tBodyAccJerk.mean...Y"

"tBodyAccJerk.mean...Z"

"tBodyAccJerk.std...X"

"tBodyAccJerk.std...Y"
 "tBodyAccJerk.std...Z"
 "tBodyGyro.mean...X"
 "tBodyGyro.mean...Y"
 "tBodyGyro.mean...Z"
 "tBodyGyro.std...X"
 "tBodyGyro.std...Y"
 "tBodyGyro.std...Z"
 "tBodyGyroJerk.mean...X"
 "tBodyGyroJerk.mean...Y"
 "tBodyGyroJerk.mean...Z"
 "tBodyGyroJerk.std...X"
 "tBodyGyroJerk.std...Y"
 "tBodyGyroJerk.std...Z"
 "tBodyAccMag.mean..
 "tBodyAccMag.std..
 "tGravityAccMag.mean..
 "tGravityAccMag.std..
 "tBodyAccJerkMag.mean..
 "tBodyAccJerkMag.std..
 "tBodyGyroMag.mean..
 "tBodyGyroMag.std..
 "tBodyGyroJerkMag.mean..
 "tBodyGyroJerkMag.std..
 "fBodyAcc.mean...X"
 "fBodyAcc.mean...Y"
 "fBodyAcc.mean...Z"
 "fBodyAcc.std...X"
 "fBodyAcc.std...Y"
 "fBodyAcc.std...Z"
 "fBodyAcc.meanFreq...X"
 "fBodyAcc.meanFreq...Y"
 "fBodyAcc.meanFreq...Z"
 "fBodyAccJerk.mean...X"
 "fBodyAccJerk.mean...Y"
 "fBodyAccJerk.mean...Z"
 "fBodyAccJerk.std...X"
 "fBodyAccJerk.std...Y"
 "fBodyAccJerk.std...Z"
 "fBodyAccJerk.meanFreq...X"
 "fBodyAccJerk.meanFreq...Y"
 "fBodyAccJerk.meanFreq...Z"
 "fBodyGyro.mean...X"
 "fBodyGyro.mean...Y"
 "fBodyGyro.mean...Z"
 "fBodyGyro.std...X"
 "fBodyGyro.std...Y"
 "fBodyGyro.std...Z"

"fBodyGyro.meanFreq...X"
"fBodyGyro.meanFreq...Y"
"fBodyGyro.meanFreq...Z"
"fBodyAccMag.mean.."
"fBodyAccMag.std.."
"fBodyAccMag.meanFreq.."
"fBodyBodyAccJerkMag.mean.."
"fBodyBodyAccJerkMag.std.."
"fBodyBodyAccJerkMag.meanFreq.."
"fBodyBodyGyroMag.mean.."
"fBodyBodyGyroMag.std.."
"fBodyBodyGyroMag.meanFreq.."
"fBodyBodyGyroJerkMag.mean.."
"fBodyBodyGyroJerkMag.std.."
"fBodyBodyGyroJerkMag.meanFreq.."

The selected features summarized for each activity and each subject. Features which indicated a mean or a standard deviation were selected. Columns are named after the feature description information provided by the files features.txt and features_info.txt.