Human Activity Recognition Using Smartphones Tidy Dataset Codebook

Activity

Label for different activities

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

SubjectNumber

Integer value to identify each subject

[1:30]

Time domain signal: Body Acceleration -Standard Deviation in Z Direction

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration -Mean value in X Direction

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration -Mean value in Y Direction

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration -Mean value in Z Direction

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration -Standard Deviation in X Direction

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration -Standard Deviation in Y Direction

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration -Standard Deviation in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk-Mean value in X Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk-Mean value in Y Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk-Mean value in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk-Standard Deviation in X Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk-Standard Deviation in Y Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk-Standard Deviation in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity -Mean value in X Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity -Mean value in Y Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity -Mean value in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity -Standard Deviation in X Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity -Standard Deviation in Y Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity -Standard Deviation in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk-Mean value in X Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk-Mean value in Y Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk-Mean value in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk-Standard Deviation in X Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk-Standard Deviation in Y Direction

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk-Standard Deviation in Z Direction

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Magnitude-Mean value

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Magnitude-Standard Deviation

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration Magnitude-Mean value

Normalized average value

[-1,1]

Time domain signal: Gravity Acceleration Magnitude-Standard Deviation

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk Magnitude-Mean value

Normalized average value

[-1,1]

Time domain signal: Body Acceleration Jerk Magnitude-Standard Deviation

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Magnitude-Mean value

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Magnitude-Standard Deviation

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk Magnitude-Mean value

Normalized average value

[-1,1]

Time domain signal: Body Angular Velocity Jerk Magnitude-Standard Deviation

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration -Mean value in X Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration -Mean value in Y Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration -Mean value in Z Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration -Standard Deviation in X Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration -Standard Deviation in Y Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration -Standard Deviation in Z Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Jerk-Mean value in X Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Jerk-Mean value in Y Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Jerk-Mean value in Z Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Jerk-Standard Deviation in X Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Jerk-Standard Deviation in Y Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Jerk-Standard Deviation in Z Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Angular Velocity -Mean value in X Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Angular Velocity -Mean value in Y Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Angular Velocity -Mean value in Z Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Angular Velocity -Standard Deviation in X Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Angular Velocity -Standard Deviation in Y Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Angular Velocity -Standard Deviation in Z Direction

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Magnitude-Mean value

Normalized average value

[-1,1]

Frequency domain signal: Body Acceleration Magnitude-Standard Deviation

Normalized average value

[-1,1]

Frequency domain signal: BodyBody Acceleration Jerk Magnitude-Mean value

Normalized average value

[-1,1]

Frequency domain signal: BodyBody Acceleration Jerk Magnitude-Standard Deviation

Normalized average value

[-1,1]

Frequency domain signal: BodyBody Angular Velocity Magnitude-Mean value

Normalized average value

[-1,1]

Frequency domain signal: BodyBody Angular Velocity Magnitude-Standard Deviation

Normalized average value

[-1,1]

Frequency domain signal: BodyBody Angular Velocity Jerk Magnitude-Mean value

Normalized average value

[-1,1]

Frequency domain signal: BodyBody Angular Velocity Jerk Magnitude-Standard Deviation

Normalized average value

[-1,1]