DATA DICTIONARY – HUMAN ACTIVITY RECOGNITION USING SMARTPHONE DATASET

subject

Subject Code

01..30 .Integer value representing a person

activity

activity of the person

Walking .Person walking

Walking\_upstairs .Person walking upstairs

Walking\_downstairs .Person walking downstairs

Sitting .Person sitting down

Standing .Person standing up

Laying .Person laying down

timebodyaccelerometermeanxaxis

Accelerometer reading of body signals in x axis in time domain,

Mean value

1..-1 Real value of measurement for the person and activity

timebodyaccelerometermeanyaxis

Accelerometer reading of body signals in y axis in time domain,

Mean value

1..-1 Real value of measurement for the person and activity

timebodyaccelerometermeanzaxis

Accelerometer reading of body signals in z axis in time domain,

Mean value

1..-1 Real value of measurement for the person and activity

timegravityaccelerometermeanxaxis

Accelerometer reading of gravity signals in x axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timegravityaccelerometermeanyaxis

Accelerometer reading of gravity signals in y axis in time domain,

Mean value

1..-1 Real value of measurement for the person and activity

timegravityaccelerometermeanzaxis

Accelerometer reading of gravity signals in z axis in time domain,

Mean value

1..-1 Real value of measurement for the person and activity

timebodyaccelerometerjerkmeanxaxis

Accelerometer reading of body jerk signals in x axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timebodyaccelerometerjerkmeanyaxis

Accelerometer reading of body jerk signals in y axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timebodyaccelerometerjerkmeanzaxis

Accelerometer reading of body jerk signals in z axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timebodygyroscopemeanxaxis

Gyroscope reading of body signals in x axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timebodygyroscopemeanyaxis

Gyroscope reading of body signals in y axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timebodygyroscopemeanzaxis

Gyroscope reading of body signals in z axis in time domain, Mean value

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timebodygyroscopejerkmeanxaxis

Gyroscope reading of body jerk signals in x axis in time domain, Mean value

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timebodygyroscopejerkmeanyaxis

Gyroscope reading of body jerk signals in y axis in time domain, Mean value

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timebodygyroscopejerkmeanzaxis

Gyroscope reading of body jerk signals in z axis in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timebodyaccelerometermagnitudemean

Accelerometer reading of body Fast Fourier Transform applied signals in time domain, Mean value

1..-1 Real value of measurement for the person and activity

timegravityaccelerometermagnitudemean

Accelerometer reading of gravity Fast Fourier Transform applied signals in time domain, Mean value

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timebodyaccelerometerjerkmagnitudemean

Accelerometer reading of body Fast Fourier Transform applied jerk signals in time domain, Mean value

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timebodygyroscopemagnitudemean

Gyroscope reading of body Fast Fourier Transform applied signals in time domain, Mean value

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timebodygyroscopejerkmagnitudemean

Gyroscope reading of body Fast Fourier Transform applied jerk signals in time domain, Mean value

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frequencybodyaccelerometermeanxaxis

Accelerometer reading of body signals in x axis in frequency domain, Mean value

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frequencybodyaccelerometermeanyaxis

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frequencybodygyroscopemeanxaxis

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frequencybodygyroscopemeanyaxis

Gyroscope reading of body signals in y axis in frequency domain, Mean value

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frequencybodygyroscopemeanzaxis

Gyroscope reading of body signals in z axis in frequency domain, Mean value

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frequencybodyaccelerometermagnitudemean

Accelerometer reading of body Fast Fourier Transform applied signals in frequency domain, Mean value

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frequencybodyaccelerometerjerkmagnitudemean

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frequencybodygyroscopemagnitudemean

Gyroscope reading of body Fast Fourier Transform applied signals in time domain, Mean value

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frequencybodygyroscopejerkmagnitudemean

Gyroscope reading of body Fast Fourier Transform applied jerk signals in time domain, Mean value

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timebodyaccelerometerstandarddeviationxaxis

Accelerometer reading of body signals in x axis in time domain,

Standard Deviation

1..-1 Real value of measurement for the person and activity

timebodyaccelerometerstandarddeviationyaxis

Accelerometer reading of body signals in y axis in time domain,

Standard Deviation

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timebodyaccelerometerstandarddeviationzaxis

Accelerometer reading of body signals in z axis in time domain,

Standard Deviation

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timegravityaccelerometerstandarddeviationxaxis

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Gyroscope reading of body Fast Fourier Transform applied jerk signals in frequency domain, Standard Deviation

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LICENSE

[1] Davide Anguita, Alessandro Ghio, Luca Oneto, Xavier Parra and Jorge L. Reyes-Ortiz. Human Activity Recognition on Smartphones using a Multiclass Hardware-friendly Support Vector Machine. International Workshop of Ambient Assisted Living (IWAAL 2012). Vitoria-Gasteiz, Spain. Dec 2012

NOTES

MEAN and STANDARD DEVIATION variables are normalized and

Bounded within [-1 , 1].

For more information about this dataset contact: activityrecognition@smartlab.ws