DATA DICTIONARY – CLEANED UCI HAR DATA SET

1

ACTIVITY

One of the six possible activities of the test : WALKING, WALKING\_UPSTAIRS, WALKING\_DOWNSTAIRS, SITTING, STANDING, LAYING

2

SUBJECT

Numbered from 1 to 6, the 6 persons that were part of the experiment

3

TBODYACC-MEAN()-X

Mean of the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

4

TBODYACC-MEAN()-Y

Mean of the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

5

TBODYACC-MEAN()-Z

Mean of the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

6

TBODYACC-STD()-X

Standard deviation of the triaxial body acceleration on the X axis, mean on all the observation for the numbered subject and the identified activity, normalized and bounded within [-1,1].

7

TBODYACC-STD()-Y

Standard deviation of the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

8

TBODYACC-STD()-Z

Standard deviation of the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

9

TGRAVITYACC-MEAN()-X

Mean of the triaxial gravity acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

10

TGRAVITYACC-MEAN()-Y

Mean of the triaxial gravity acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

11

TGRAVITYACC-MEAN()-Z

Mean of the triaxial gravity acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

12

TGRAVITYACC-STD()-X

Standard deviation of the triaxial gravity acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

13

TGRAVITYACC-STD()-Y

Standard deviation of the triaxial gravity acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

14

TGRAVITYACC-STD()-Z

Standard deviation of the triaxial gravity acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

15

TBODYACCJERK-MEAN()-X

Jerk signal (derived in time) mean from the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

16

TBODYACCJERK-MEAN()-Y

Jerk signal (derived in time) mean from the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

17

TBODYACCJERK-MEAN()-Z

Jerk signal (derived in time) mean from the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

18

TBODYACCJERK-STD()-X

Jerk signal (derived in time) standard deviation from the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

19

TBODYACCJERK-STD()-Y

Jerk signal (derived in time) standard deviation from the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

20

TBODYACCJERK-STD()-Z

Jerk signal (derived in time) standard deviation from the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

21

TBODYGYRO-MEAN()-X

Triaxial angular body velocity from the gyroscope, mean on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

22

TBODYGYRO-MEAN()-Y

Triaxial angular body velocity from the gyroscope, mean on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

23

TBODYGYRO-MEAN()-Z

Triaxial angular body velocity from the gyroscope, mean on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

24

TBODYGYRO-STD()-X

Triaxial angular body velocity from the gyroscope, standard deviation on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

25

TBODYGYRO-STD()-Y

Triaxial angular body velocity from the gyroscope, standard deviation on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

26

TBODYGYRO-STD()-Z

Triaxial angular body velocity from the gyroscope, standard deviation on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

27

TBODYGYROJERK-MEAN()-X

Jerk signal (derived in time) from the triaxial angular body velocity from the gyroscope, mean on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

28

TBODYGYROJERK-MEAN()-Y

Jerk signal (derived in time) from the triaxial angular body velocity from the gyroscope, mean on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

29

TBODYGYROJERK-MEAN()-Z

Jerk signal (derived in time) from the triaxial angular body velocity from the gyroscope, mean on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

30

TBODYGYROJERK-STD()-X

Jerk signal (derived in time) from the triaxial angular body velocity from the gyroscope, standard deviation on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

31

TBODYGYROJERK-STD()-Y

Jerk signal (derived in time) from the triaxial angular body velocity from the gyroscope, standard deviation on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

32

TBODYGYROJERK-STD()-Z

Jerk signal (derived in time) from the triaxial angular body velocity from the gyroscope, standard deviation on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

33

TBODYACCMAG-MEAN()

Magnitude of the triaxial body acceleration mean, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

34

TBODYACCMAG-STD()

Magnitude of the triaxial body acceleration standard deviation, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

35

TGRAVITYACCMAG-MEAN()

Magnitude of the triaxial gravity acceleration mean, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

36

TGRAVITYACCMAG-STD()

Magnitude of the triaxial gravity acceleration standard deviation, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

37

TBODYACCJERKMAG-MEAN()

Jerk signal (derived in time) of the magnitude of the triaxial body acceleration mean, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

38

TBODYACCJERKMAG-STD()

Jerk signal (derived in time) of the magnitude of the triaxial body acceleration standard deviation, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

39

TBODYGYROMAG-MEAN()

Magnitude of the triaxial body velocity from the gyroscope mean, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

40

TBODYGYROMAG-STD()

Magnitude of the triaxial body velocity from the gyroscope standard deviation, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

41

FBODYACC-MEAN()-X

Fast Fourier transform of the mean of the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

42

FBODYACC-MEAN()-Y

Fast Fourier transform of the mean of the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

43

FBODYACC-MEAN()-Z

Fast Fourier transform of the mean of the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

44

FBODYACC-STD()-X

Fast Fourier transform of the standard deviation of the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

45

FBODYACC-STD()-Y

Fast Fourier transform of the standard deviation of the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

46

FBODYACC-STD()-Z

Fast Fourier transform of the standard deviation of the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

47

FBODYACCJERK-MEAN()-X

Jerk signal (derived in time) from the Fast Fourier transform of the mean of the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

48

FBODYACCJERK-MEAN()-Y

Jerk signal (derived in time) from the Fast Fourier transform of the mean of the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

49

FBODYACCJERK-MEAN()-Z

Jerk signal (derived in time) from the Fast Fourier transform of the mean of the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

50

FBODYACCJERK-STD()-X

Jerk signal (derived in time) from the Fast Fourier transform of the standard deviation of the triaxial body acceleration on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

51

FBODYACCJERK-STD()-Y

Jerk signal (derived in time) from the Fast Fourier transform of the standard deviation of the triaxial body acceleration on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

52

FBODYACCJERK-STD()-Z

Jerk signal (derived in time) from the Fast Fourier transform of the standard deviation of the triaxial body acceleration on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1].

53

FBODYGYRO-MEAN()-X

Fast Fourier transformation from the angular body velocity from the gyroscope, mean on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

54

FBODYGYRO-MEAN()-Y

Fast Fourier transformation from the angular body velocity from the gyroscope, mean on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

55

FBODYGYRO-MEAN()-Z

Fast Fourier transformation from the angular body velocity from the gyroscope, mean on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

56

FBODYGYRO-STD()-X

Fast Fourier transformation from the angular body velocity from the gyroscope, standard deviation on the X axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

57

FBODYGYRO-STD()-Y

Fast Fourier transformation from the angular body velocity from the gyroscope, standard deviation on the Y axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

58

FBODYGYRO-STD()-Z

Fast Fourier transformation from the angular body velocity from the gyroscope, standard deviation on the Z axis, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

59

FBODYACCMAG-MEAN()

Magnitude of the mean of the fast Fourier transformed body acceleration, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

60

FBODYACCMAG-STD()

Magnitude of the standard deviation of the fast Fourier transformed body acceleration, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

61

FBODYBODYGYROMAG-MEAN()

Magnitude of the mean of the fast Fourier transformed angular body velocity from the gyroscope, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]

62

FBODYBODYGYROMAG-STD()

Magnitude of the standard deviation of the fast Fourier transformed angular body velocity from the gyroscope, calculated using Euclidean norm, mean on all the observations for the numbered subject and the identified activity, normalized and bounded within [-1,1]