DATA DICTIONARY - featureMean.txt

This dataset is based on the “Human Activity Recognition Using Smartphones Data Set“.

A full description is available at the site where the original data was obtained:
http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

Here you can see the description of the variables of the derived data “featureMean.txt”.

The original data is grouped by activity and subject (subjectnr).

Therefore the Aggregation for all features (column nr. 3 to 81) is mean.

Details of the transformations are described in “Readme.md”.

Nr	Variable	Description	time domain signal / frequency domain signal	Direction (x,y,z)	Calculation	Datatype
1	activity	WALKING WALKING_UPSTAIRS WALKING_DOWNSTAIRS SITTING STANDING LAYING				Character
2	subjectnr	Subject 1 to 30				Integer
3	tbodyaccmeanx	body accelerator	time domain signal	x	Mean value	Numeric
4	tbodyaccmeany	body accelerator	time domain signal	y	Mean value	Numeric
5	tbodyaccmeanz	body accelerator	time domain signal	z	Mean value	Numeric
6	tbodyaccstdx	body accelerator	time domain signal	x	Standard deviation	Numeric
7	tbodyaccstdy	body accelerator	time domain signal	y	Standard deviation	Numeric
8	tbodyaccstdz	body accelerator	time domain signal	z	Standard deviation	Numeric

9	tgravityaccmeanx	gravity accelerator	time domain signal	x	Mean value	Numeric
10	tgravityaccmeany	gravity accelerator	time domain signal	y	Mean value	Numeric
11	tgravityaccmeanz	gravity accelerator	time domain signal	z	Mean value	Numeric
12	tgravityaccstdx	gravity accelerator	time domain signal	x	Standard deviation	Numeric
13	tgravityaccstdy	gravity accelerator	time domain signal	y	Standard deviation	Numeric
14	tgravityaccstdz	gravity accelerator	time domain signal	z	Standard deviation	Numeric
15	tbodyaccjerkmeanx	jerk	time domain signal	x	Mean value	Numeric
16	tbodyaccjerkmeany	jerk	time domain signal	y	Mean value	Numeric
17	tbodyaccjerkmeanz	jerk	time domain signal	z	Mean value	Numeric
18	tbodyaccjerkstdx	jerk	time domain signal	x	Standard deviation	Numeric
19	tbodyaccjerkstdy	jerk	time domain signal	y	Standard deviation	Numeric
20	tbodyaccjerkstdz	jerk	time domain signal	z	Standard deviation	Numeric
21	tbodygyromeanx	gyroscope	time domain signal	x	Mean value	Numeric
22	tbodygyromeany	gyroscope	time domain signal	y	Mean value	Numeric
23	tbodygyromeanz	gyroscope	time domain signal	z	Mean value	Numeric
24	tbodygyrostdx	gyroscope	time domain signal	x	Standard deviation	Numeric
25	tbodygyrostdy	gyroscope	time domain signal	y	Standard deviation	Numeric
26	tbodygyrostdz	gyroscope	time domain signal	z	Standard deviation	Numeric
27	tbodygyrojerkmeanx	gyroscope/jerk	time domain signal	x	Mean value	Numeric
28	tbodygyrojerkmeany	gyroscope/jerk	time domain signal	y	Mean value	Numeric
29	tbodygyrojerkmeanz	gyroscope/jerk	time domain signal	z	Mean value	Numeric
30	tbodygyrojerkstdx	gyroscope/jerk	time domain signal	x	Standard deviation	Numeric
31	tbodygyrojerkstdy	gyroscope/jerk	time domain signal	y	Standard deviation	Numeric
32	tbodygyrojerkstdz	gyroscope/jerk	time domain signal	z	Standard deviation	Numeric
33	tbodyaccmagmean	body accelerator magnitude	time domain signal	-	Mean value	Numeric
34	tbodyaccmagstd	body accelerator magnitude	time domain signal	-	Standard deviation	Numeric
35	tgravityaccmagmean	gravity accelerator magnitude	time domain signal	-	Mean value	Numeric
36	tgravityaccmagstd	gravity accelerator magnitude	time domain signal	-	Standard deviation	Numeric
37	tbodyaccjerkmagmean	jerk magnitude	time domain signal	-	Standard deviation	Numeric

38	tbodyaccjerkmagstd	jerk magnitude	time domain signal	-	Standard deviation	Numeric
39	tbodygyromagmean	gyroscope magnitude	time domain signal	-	Standard deviation	Numeric
40	tbodygyromagstd	gyroscope magnitude	time domain signal	-	Standard deviation	Numeric
41	tbodygyrojerkmagmean	jerk magnitude	time domain signal	-	Mean value	Numeric
42	tbodygyrojerkmagstd	jerk magnitude	time domain signal	-	Standard deviation	Numeric
43	fbodyaccmeanx	body accelerator	frequency domain signal	x	Mean value	Numeric
44	fbodyaccmeany	body accelerator	frequency domain signal	y	Mean value	Numeric
45	fbodyaccmeanz	body accelerator	frequency domain signal	z	Mean value	Numeric
46	fbodyaccstdx	body accelerator	frequency domain signal	x	Standard deviation	Numeric
47	fbodyaccstdy	body accelerator	frequency domain signal	y	Standard deviation	Numeric
48	fbodyaccstdz	gravity accelerator	frequency domain signal	z	Standard deviation	Numeric
49	fbodyaccmeanfreqx	gravity accelerator	frequency domain signal	x	Standard deviation	Numeric
50	fbodyaccmeanfreqy	gravity accelerator	frequency domain signal	y	Standard deviation	Numeric
51	fbodyaccmeanfreqz	gravity accelerator	frequency domain signal	z	Standard deviation	Numeric
52	fbodyaccjerkmeanx	gravity accelerator	frequency domain signal	x	Mean value	Numeric
53	fbodyaccjerkmeany	gravity accelerator	frequency domain signal	y	Mean value	Numeric
54	fbodyaccjerkmeanz	jerk	frequency domain signal	z	Mean value	Numeric
55	fbodyaccjerkstdx	jerk	frequency domain signal	x	Standard deviation	Numeric
56	fbodyaccjerkstdy	jerk	frequency domain signal	y	Standard deviation	Numeric
57	fbodyaccjerkstdz	jerk	frequency domain signal	z	Standard deviation	Numeric
58	fbodyaccjerkmeanfreqx	jerk	frequency domain signal	x	Mean value	Numeric
59	fbodyaccjerkmeanfreqy	jerk	frequency domain signal	y	Mean value	Numeric
60	fbodyaccjerkmeanfreqz	gyroscope	frequency domain signal	z	Mean value	Numeric
61	fbodygyromeanx	gyroscope	frequency domain signal	x	Mean value	Numeric
62	fbodygyromeany	gyroscope	frequency domain signal	y	Mean value	Numeric
63	fbodygyromeanz	gyroscope	frequency domain signal	z	Mean value	Numeric
64	fbodygyrostdx	gyroscope	frequency domain signal	x	Standard deviation	Numeric
65	fbodygyrostdy	gyroscope	frequency domain signal	y	Standard deviation	Numeric
66	fbodygyrostdz	gyroscope/jerk	frequency domain signal	z	Standard deviation	Numeric

67	fbodygyromeanfreqx	gyroscope/jerk	frequency domain signal	x	Mean value	Numeric
68	fbodygyromeanfreqy	gyroscope/jerk	frequency domain signal	y	Mean value	Numeric
69	fbodygyromeanfreqz	gyroscope/jerk	frequency domain signal	z	Mean value	Numeric
70	fbodyaccmagmean	gyroscope/jerk	frequency domain signal	-	Standard deviation	Numeric
71	fbodyaccmagstd	gyroscope/jerk	frequency domain signal	-	Standard deviation	Numeric
72	fbodyaccmagmeanfreq	body accelerator magnitude	frequency domain signal	-	Mean value	Numeric
73	fbodybodyaccjerkmagmean	body accelerator magnitude	frequency domain signal	-	Mean value	Numeric
74	fbodybodyaccjerkmagstd	gravity accelerator magnitude	frequency domain signal	-	Standard deviation	Numeric
75	fbodybodyaccjerkmagmeanfreq	gravity accelerator magnitude	frequency domain signal	-	Mean value	Numeric
76	fbodybodygyromagmean	jerk magnitude	frequency domain signal	-	Mean value	Numeric
77	fbodybodygyromagstd	jerk magnitude	frequency domain signal	-	Standard deviation	Numeric
78	fbodybodygyromagmeanfreq	gyroscope magnitude	frequency domain signal	-	Mean value	Numeric
79	fbodybodygyrojerkmagmean	gyroscope magnitude	frequency domain signal	-	Mean value	Numeric
80	fbodybodygyrojerkmagstd	jerk magnitude	frequency domain signal	-	Standard deviation	Numeric
81	fbodybodygyrojerkmagmeanfreq	jerk magnitude	frequency domain signal	-	Mean value	Numeric