Time Domain

tBodyAcc-XYZ – body acceleration XYZ plane

tGravityAcc-XYZ – gravitational acceleration XYZ plane

tBodyAccJerk-XYZ – body linear acceleration XYZ plane

tBodyGyro-XYZ – body angular acceleration XYZ plane

tBodyGyroJerk-XYZ – body angular velocity XYZ plane

Magnitude

tBodyAccMag – magnitude of body acceleration XYZ plane

tGravityAccMag – magnitude of gravitational acceleration XYZ plane

tBodyAccJerkMag – magnitude of body linear acceleration XYZ plane

tBodyGyroMag – magnitude of body angular acceleration XYZ plane

tBodyGyroJerkMag – magnitude of body angular velocity XYZ plane

Frequency Domain:

fBodyAcc-XYZ – body acceleration XYZ plane

fBodyAccJerk-XYZ – body linear acceleration XYZ plane

fBodyGyro-XYZ – body angular acceleration XYZ plane

Magnitude:

fBodyAccMag – magnitude of body acceleration XYZ plane

fBodyAccJerkMag – magnitude of body linear acceleration XYZ plane

fBodyGyroMag – magnitude of body angular acceleration XYZ plane

fBodyGyroJerkMag – magnitude of body angular velocity XYZ plane

mean(): Mean value

std(): Standard deviation

mad(): Median absolute deviation

max(): Largest value in array

min(): Smallest value in array

sma(): Signal magnitude area

energy(): Energy measure. Sum of the squares divided by the number of values.

iqr(): Interquartile range

entropy(): Signal entropy

arCoeff(): Autorregresion coefficients with Burg order equal to 4

correlation(): correlation coefficient between two signals

maxInds(): index of the frequency component with largest magnitude

meanFreq(): Weighted average of the frequency components to obtain a mean frequency

skewness(): skewness of the frequency domain signal

kurtosis(): kurtosis of the frequency domain signal

bandsEnergy(): Energy of a frequency interval within the 64 bins of the FFT of each window.

angle(): Angle between to vectors.

gravityMean: mean of gravity measurements

tBodyAccMean: mean of body acceleration measurements

tBodyAccJerkMean: mean of body linear acceleration measurements

tBodyGyroMean: mean of body angular acceleration measurements

tBodyGyroJerkMean: mean of body angular velocity measurements